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# Modul:Unicode data

## Inhaltsverzeichnis

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## Usage

This module provides functions that access information on Unicode code points. The information is retrieved from data modules generated from the [Unicode Character Database](#), or derived by rules given in the [Unicode Specification](#). It and its submodules were copied from English Wiktionary and then modified; see [there](#) for more information.

## Functions

### Vorlage:Code

Receives a code point (number) and returns its name or label; for example, [Vorlage:Code](#) returns [Vorlage:Code](#).

For example, [Vorlage:Tnull](#) → <reserved-0061>

### Vorlage:Code

Template-invokable functions that allow access to the functions starting with `lookup` and `is`. Replace the first underscore in the function name with a pipe. For most of the functions, add the code point in hexadecimal base as the next parameter, but for `is_Latin`, `is rtl`, and `is_valid_pagename`, add text. [HTML character references](#) in the text are decoded by the module into code points.

For example, [Vorlage:Tnull](#) → **Lua-Fehler in Zeile 293: attempt to index local 'data\_module' (a boolean value).**

## Data modules

The data used by functions in this module is found in [submodules](#). Some are generated by [AWK](#) scripts shown at [User:Kephir/Unicode](#) on English Wiktionary, others by Lua scripts on the /make subpages of the submodules.

- [Module:Unicode data/aliases](#): the formal name aliases for characters (from [NameAliases.txt](#))
- [Module:Unicode data/blocks](#): the list of Unicode blocks (from [Blocks.txt](#))
- [Module:Unicode data/category](#): data mapping characters to their General Category (from [DerivedGeneralCategory.txt](#))
- [Module:Unicode data/control](#): data for identifying characters that belong to the General Categories of Separator and Other (from [DerivedGeneralCategory.txt](#))

- [Module:Unicode data/combining](#): data mapping characters to their Combining Classes (from [DerivedCombiningClass.txt](#))
- [Module:Unicode data/Hangul](#): data used to generate the names of **Hangul** syllables (from [Jamo.txt](#))
- [Module:Unicode data/scripts](#): data mapping characters to their Unicode script properties (from [Scripts.txt](#)).

The name data modules ([Module:Unicode data/names/xxx](#)) were compiled from [UnicodeData.txt](#). Each one contains, at maximum, code points U+xxxx000 to U+xxxxFFF. **Lua-Fehler in mw.title.**  
**Iua, Zeile 206: too many expensive function calls**

## Copyright

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```
local p = {}

local floor = math.floor

local function errorf(level, ...)
    if type(level) == "number" then
        return error(string.format(...), level + 1)
```

```
        else -- level is actually the format string.
                return error(string.format(level, ...), 2)
        end
end

local function binary_range_search(codepoint, ranges)
    local low, mid, high
    low, high = 1, ranges.length or require "Module:TableTools".length(ranges)
    while low <= high do
        mid = floor((low + high) / 2)
        local range = ranges[mid]
        if codepoint < range[1] then
            high = mid - 1
        elseif codepoint <= range[2] then
            return range, mid
        else
            low = mid + 1
        end
    end
    return nil, mid
end
p.binary_range_search = binary_range_search

--[[[
local function linear_range_search(codepoint, ranges)
    for i, range in ipairs(ranges) do
        if range[1] <= codepoint and codepoint <= range[2] then
            return range
        end
    end
end
--]]]

-- Load a module by indexing "loader" with the name of the module minus the
-- "Module:Unicode data/" part. For instance, loader.blocks returns
-- [[Module:Unicode data/blocks]]. If a module cannot be loaded, false will be
-- returned.
local loader = setmetatable({}, {
    __index = function (self, key)
        local success, data = pcall(mw.loadData, "Module:Unicode data/" .. key)
        if not success then
            data = false
        end
        self[key] = data
        return data
    end
})
-- For the algorithm used to generate Hangul Syllable names,
-- see "Hangul Syllable Name Generation" in section 3.12 of the
-- Unicode Specification:
-- https://www.unicode.org/versions/Unicode11.0.0/ch03.pdf
local name_hooks = {
    { 0x00,     0x1F, "<control-%04X>" }, -- C0 control characters
    { 0x7F,     0x9F, "<control-%04X>" }, -- DEL and C1 control characters
    { 0x3400,   0x4DBF, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension A
    { 0x4E00,   0x9FFF, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension B
    { 0xAC00,   0xD7A3, function (codepoint) -- Hangul Syllables
        local Hangul_data = loader.Hangul
        local syllable_index = codepoint - 0xAC00
        return ("HANGUL SYLLABLE %s%s%s"):format(
            Hangul_data.leads[floor(syllable_index / Hangul_data.fin
            Hangul_data.vowels[floor((syllable_index % Hangul_data.fin

```

```
        / Hangul_data.trail_count)],
    Hangul_data.trails[syllable_index % Hangul_data.trail_count]
)
end },
-- High Surrogates, High Private Use Surrogates, Low Surrogates
{ 0xD800, 0xDFFF, "<surrogate-%04X>" },
{ 0xE000, 0xF8FF, "<private-use-%04X>" }, -- Private Use
-- CJK Compatibility Ideographs
{ 0xF900, 0xFA6D, "CJK COMPATIBILITY IDEOGRAPH-%04X" },
{ 0xFA70, 0xFAD9, "CJK COMPATIBILITY IDEOGRAPH-%04X" },
{ 0x17000, 0x187F7, "TANGUT IDEOGRAPH-%04X" }, -- Tangut Ideograph
{ 0x18800, 0x18AFF, function (codepoint)
    return ("TANGUT COMPONENT-%03d"):format(codepoint - 0x187FF)
end },
{ 0x18D00, 0x18D08, "TANGUT IDEOGRAPH-%04X" }, -- Tangut Ideograph Supplement
{ 0x1B170, 0x1B2FB, "NUSHU CHARACTER-%04X" }, -- Nushu
{ 0x20000, 0x2A6DF, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension A
{ 0x2A700, 0x2B738, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension B
{ 0x2B740, 0x2B81D, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension C
{ 0x2B820, 0x2CEA1, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension D
{ 0x2CEB0, 0x2EBE0, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension E
-- CJK Compatibility Ideographs Supplement (Supplementary Ideographic Plane 15)
{ 0x2F800, 0x2FA1D, "CJK COMPATIBILITY IDEOGRAPH-%04X" },
{ 0xE0100, 0xE01EF, function (codepoint) -- Variation Selectors Supplement
    return ("VARIATION SELECTOR-%d"):format(codepoint - 0xE0100 + 17)
end},
{ 0x30000, 0x3134A, "CJK UNIFIED IDEOGRAPH-%04X" }, -- CJK Ideograph Extension F
{ 0xF0000, 0xFFFFD, "<private-use-%04X>" }, -- Plane 15 Private Use
{ 0x100000, 0x10FFFFD, "<private-use-%04X>" } -- Plane 16 Private Use
}
name_hooks.length = #name_hooks

local name_range_cache

local function generate_name(data, codepoint)
    if type(data) == "string" then
        return data:format(codepoint)
    else
        return data(codepoint)
    end
end

--[[[
-- Checks that the code point is a number and in range.
-- Does not check whether code point is an integer.
-- Not used
local function check_codepoint(funcName, argIdx, val)
    require 'libraryUtil'.checkType(funcName, argIdx, val, 'number')
    if codepoint < 0 or 0x10FFFF < codepoint then
        errorf("Codepoint %04X out of range", codepoint)
    end
end
--]]]

-- https://www.unicode.org/versions/Unicode11.0.0/ch04.pdf, section 4.8
function p.lookup_name(codepoint)
    -- U+FDD0-U+FDEF and all code points ending in FFFE or FFFF are Unassigned
    -- (Cn) and specifically noncharacters:
    -- https://www.unicode.org/faq/private_use.html#nonchar4
    if 0xFDD0 <= codepoint and (codepoint <= 0xFDEF
        or floor(codepoint % 0x10000) >= 0xFFFF) then
        return ("<noncharacter-%04X>"):format(codepoint)
    end
end
```

```
if name_range_cache -- Check if previously used "name hook" applies to th
    and codepoint >= name_range_cache[1]
    and codepoint <= name_range_cache[2] then
        return generate_name(name_range_cache[3], codepoint)
end

local range = binary_range_search(codepoint, name_hooks)
if range then
    name_range_cache = range
    return generate_name(range[3], codepoint)
end

local data = loader[('names/%03X'):format(codepoint / 0x1000)]

if data and data[codepoint] then
    return data[codepoint]

-- Unassigned (Cn) consists of noncharacters and reserved characters.
-- The character has been established not to be a noncharacter,
-- and if it were assigned, its name would already have been retrieved,
-- so it must be reserved.
else
    return ("<reserved-%04X>"):format(codepoint)
end
end

-- [[
-- No image data modules on Wikipedia yet.
function p.lookup_image(codepoint)
    local data = loader[('images/%03X'):format(codepoint / 0x1000)]

    if data then
        return data[codepoint]
    end
end
-- ]]

local planes = {
    [ 0] = "Basic Multilingual Plane";
    [ 1] = "Supplementary Multilingual Plane";
    [ 2] = "Supplementary Ideographic Plane";
    [ 3] = "Tertiary Ideographic Plane";
    [14] = "Supplementary Special-purpose Plane";
    [15] = "Supplementary Private Use Area-A";
    [16] = "Supplementary Private Use Area-B";
}

-- Load [[Module:Unicode data/blocks]] if needed and assign it to this variable.
local blocks

local function block_iter(blocks, i)
    i = i + 1
    local data = blocks[i]
    if data then
        -- Unpack doesn't work on tables loaded with mw.loadData.
        return i, data[1], data[2], data[3]
    end
end

-- An ipairs-type iterator generator for the list of blocks.
function p.enum_blocks()
    local blocks = loader.blocks
    return block_iter, blocks, 0
end
```

```
function p.lookup_plane(codepoint)
    local i = floor(codepoint / 0x10000)
    return planes[i] or ("Plane %u"):format(i)
end

function p.lookup_block(codepoint)
    local blocks = loader.blocks
    local range = binary_range_search(codepoint, blocks)
    if range then
        return range[3]
    else
        return "No Block"
    end
end

function p.get_block_info(name)
    for i, block in ipairs(loader.blocks) do
        if block[3] == name then
            return block
        end
    end
end

function p.is_valid_pagename(pagename)
    local has_nonws = false

    for cp in mw.ustring.gcodepoint(pagename) do
        if (cp == 0x0023) -- #
        or (cp == 0x005B) -- [
        or (cp == 0x005D) -- ]
        or (cp == 0x007B) -- {
        or (cp == 0x007C) -- |
        or (cp == 0x007D) -- }
        or (cp == 0x180E) -- MONGOLIAN VOWEL SEPARATOR
        or ((cp >= 0x2000) and (cp <= 0x200A)) -- spaces in General Punct
        or (cp == 0xFFFFD) -- REPLACEMENT CHARACTER
        then
            return false
        end

        local printable, result = p.is_printable(cp)
        if not printable then
            return false
        end

        if result ~= "space-separator" then
            has_nonws = true
        end
    end

    return has_nonws
end

local function manual_unpack(what, from)
    if what[from + 1] == nil then
        return what[from]
    end

    local result = {}
    from = from or 1
    for i, item in ipairs(what) do
        if i >= from then
            table.insert(result, item)
        end
    end
end
```

```
        end
    end
    return unpack(result)
end

local function compare_ranges(range1, range2)
    return range1[1] < range2[1]
end

-- Creates a function to look up data in a module that contains "singles" (a
-- code point-to-data map) and "ranges" (an array containing arrays that contain
-- the low and high code points of a range and the data associated with that
-- range).
-- "loader" loads and returns the "singles" and "ranges" tables.
-- "match_func" is passed the code point and either the data or the "dots", and
-- generates the final result of the function.
-- The varargs ("dots") describes the default data to be returned if there wasn't
-- a match.
-- In case the function is used more than once, "cache" saves ranges that have
-- already been found to match, or a range whose data is the default if there
-- was no match.
local function memo_lookup(data_module_subpage, match_func, ...)
    local dots = { ... }
    local cache = {}
    local singles, ranges

    return function (codepoint)
        if not singles then
            local data_module = loader[data_module_subpage]
            singles, ranges = data_module.singles, data_module.ranges
        end

        if singles[codepoint] then
            return match_func(codepoint, singles[codepoint])
        end

        local range = binary_range_search(codepoint, cache)
        if range then
            return match_func(codepoint, manual_unpack(range, 3))
        end

        local range, index = binary_range_search(codepoint, ranges)
        if range then
            table.insert(cache, range)
            table.sort(cache, compare_ranges)
            return match_func(codepoint, manual_unpack(range, 3))
        end

        if ranges[index] then
            local dots_range
            if codepoint > ranges[index][2] then
                dots_range = {
                    ranges[index][2] + 1,
                    ranges[index + 1] and ranges[index + 1][1],
                    unpack(dots)
                }
            else -- codepoint < range[index][1]
                dots_range = {
                    ranges[index - 1] and ranges[index - 1][1],
                    ranges[index][1] - 1,
                    unpack(dots)
                }
            end
            table.sort(cache, compare_ranges)
        end
    end
end
```

```
        end

            return match_func(codepoint)
        end
    end

-- Get a code point's combining class value in [[Module:Unicode data/combing]]
-- and return whether this value is not zero. Zero is assigned as the default
-- if the combining class value is not found in this data module.
-- That is, return true if character is combining, or false if it is not.
-- See https://www.unicode.org/reports/tr44/#Canonical_Combining_Class_Values for
-- more information.
p.is_combining = memo_lookup(
    "combining",
    function (codepoint, combining_class)
        return combining_class and combining_class ~= 0 or false
    end,
    0)

function p.add_dotted_circle(str)
    return (mw.ustring.gsub(str, ".",
        function(char)
            if p.is_combining(mw.ustring.codepoint(char)) then
                return '⦿' .. char
            end
        end))
end

local lookup_control = memo_lookup(
    "control",
    function (codepoint, ccc)
        return ccc or "assigned"
    end,
    "assigned")
p.lookup_control = lookup_control

function p.is_assigned(codepoint)
    return lookup_control(codepoint) ~= "unassigned"
end

function p.is_printable(codepoint)
    local result = lookup_control(codepoint)
    return (result == "assigned") or (result == "space-separator"), result
end

function p.is_whitespace(codepoint)
    local result = lookup_control(codepoint)
    return (result == "space-separator"), result
end

p.lookup_category = memo_lookup(
    "category",
    function (codepoint, category)
        return category
    end,
    "Cn")

local lookup_script = memo_lookup(
    "scripts",
    function (codepoint, script_code)
        return script_code or 'Zzzz'
    end,
    "Zzzz")
p.lookup_script = lookup_script
```

```
function p.get_best_script(str)
    -- Check type of argument, because mw.text.decode coerces numbers to strings
    require "libraryUtil".checkType("get_best_script", 1, str, "string")

    -- Convert HTML character references (including named character references,
    -- or character entities) to characters.
    str = mw.text.decode(str, true)

    local scripts = {}
    for codepoint in mw.ustring.gcodepoint(str) do
        local script = lookup_script(codepoint)

        -- Ignore "Inherited", "Undetermined", or "Uncoded" scripts.
        if not (script == "Zyyy" or script == "Zinh" or script == "Zzzz")
            scripts[script] = true
        end
    end

    -- If scripts does not contain two or more keys,
    -- return first and only key (script code) in table.
    if not next(scripts, next(scripts)) then
        return next(scripts)
    end -- else return majority script, or else "Zzzz"
end

function p.is_Latin(str)
    require "libraryUtil".checkType("get_best_script", 1, str, "string")
    str = mw.text.decode(str, true)

    -- Search for the leading bytes that introduce the UTF-8 encoding of the
    -- code points U+0340-U+10FFFF. If they are not found and there is at least
    -- one Latin-script character, the string counts as Latin, because the rest
    -- of the characters can only be Zyyy, Zinh, and Zzzz.
    -- The only scripts found below U+0370 (the first code point of the Greek
    -- and Coptic block) are Latn, Zyyy, Zinh, and Zzzz.
    -- See the codepage in the [[UTF-8]] article.
    if not str:find "[\205-\244]" then
        for codepoint in mw.ustring.gcodepoint(str) do
            if lookup_script(codepoint) == "Latn" then
                return true
            end
        end
    end

    local Latn = false

    for codepoint in mw.ustring.gcodepoint(str) do
        local script = lookup_script(codepoint)

        if script == "Latn" then
            Latn = true
        elseif not (script == "Zyyy" or script == "Zinh"
                    or script == "Zzzz") then
            return false
        end
    end

    return Latn
end

-- Checks that a string contains only characters belonging to right-to-left
-- scripts, or characters of ignorable scripts.
function p.is rtl(str)
```

```
require "libraryUtil".checkType("get_best_script", 1, str, "string")
str = mw.text.decode(str, true)

-- Search for the leading bytes that introduce the UTF-8 encoding of the
-- code points U+0580-U+10FFFF. If they are not found, the string can only
-- have characters from a left-to-right script, because the first code point
-- in a right-to-left script is U+0591, in the Hebrew block.
if not str:find "[\214-\244]" then
    return false
end

local result = false
local rtl = loader.scripts.rtl
for codepoint in mw.ustring.gcodepoint(str) do
    local script = lookup_script(codepoint)

    if rtl[script] then
        result = true
    elseif not (script == "Zyyy" or script == "Zinh"
                or script == "Zzzz") then
        return false
    end
end

return result
end

local function get_codepoint(args, arg)
    local codepoint_string = args[arg]
        or errorf(2, "Parameter %s is required", tostring(arg))
    local codepoint = tonumber(codepoint_string, 16)
        or errorf(2, "Parameter %s is not a code point in hexadecimal base",
                  tostring(arg))
    if not (0 <= codepoint and codepoint <= 0x10FFFF) then
        errorf(2, "code point in parameter %s out of range", tostring(arg))
    end
    return codepoint
end

local function get_func(args, arg, prefix)
    local suffix = args[arg]
        or errorf(2, "Parameter %s is required", tostring(arg))
    suffix = mw.text.trim(suffix)
    local func_name = prefix .. suffix
    local func = p[func_name]
        or errorf(2, "There is no function '%s'", func_name)
    return func
end

-- This function allows any of the "lookup" functions to be invoked. The first
-- parameter is the word after "lookup_"; the second parameter is the code point
-- in hexadecimal base.
function p.lookup(frame)
    local func = get_func(frame.args, 1, "lookup_")
    local codepoint = get_codepoint(frame.args, 2)
    local result = func(codepoint)
    if func == p.lookup_name then
        -- Prevent code point labels such as <control-0000> from being
        -- interpreted as HTML tags.
        result = result:gsub("<", "&lt;")
    end
    return result
end
```

```
function p.is(frame)
    local func = get_func(frame.args, 1, "is_")

    -- is_Latin and is_valid_pagename take strings.
    if func == p.is_Latin or func == p.is_valid_pagename or func == p.is_rtl
        return (func(frame.args[2]))
    else -- The rest take code points.
        local codepoint = get_codepoint(frame.args, 2)
        return (func(codepoint)) -- Adjust to one result.
    end
end

return p
```

# Modul:Unicode data/Doku

Dies ist die Dokumentationsseite für [Modul:Unicode data](#)

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## Functions

### Vorlage:Code

Receives a code point (number) and returns its name or label; for example, [Vorlage:Code](#) returns [Vorlage:Code](#).

For example, [Vorlage:Tnull](#) → <reserved-0061>

### Vorlage:Code

Template-invokable functions that allow access to the functions starting with `lookup` and `is`. Replace the first underscore in the function name with a pipe. For most of the functions, add the code point in hexadecimal base as the next parameter, but for `is_Latin`, `is rtl`, and `is_valid_pagename`, add text. [HTML character references](#) in the text are decoded by the module into code points.

For example, [Vorlage:Tnull](#) → **Lua-Fehler in Modul:Unicode\_data, Zeile 293: attempt to index local 'data\_module' (a boolean value)**.

## Data modules

The data used by functions in this module is found in [submodules](#). Some are generated by [AWK](#) scripts shown at [User:Kephir/Unicode](#) on English Wiktionary, others by Lua scripts on the /make subpages of the submodules.

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- [Module:Unicode data/Hangul](#): data used to generate the names of **Hangul** syllables (from [Jamo.txt](#))
- [Module:Unicode data/scripts](#): data mapping characters to their Unicode script properties (from [Scripts.txt](#)).

The name data modules ([Module:Unicode data/names/xxx](#)) were compiled from [UnicodeData.txt](#). Each one contains, at maximum, code points U+xxxx000 to U+xxxxFFF. **Lua-Fehler in mw.title.**

### **Iua, Zeile 206: too many expensive function calls**

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## Modul:Unicode data/Hangul

Contains data used by [Module:Unicode data](#) to generate the names of characters in the **Hangul Syllables** Unicode block.

```
-- Data used to generate the names of characters in the Hangul Syllables block
-- (U+AC00 to U+D7A3).
local Hangul = {}

-- The following leads, vowels, and trails come from here:
-- http://www.unicode.org/Public/UNIDATA/Jamo.txt
Hangul.leads = {
    [0] = "G", "GG", "N", "D", "DD", "R", "M", "B", "BB", "S", "SS",
    "", "J", "JJ", "C", "K", "T", "P", "H"
}
-- not actually used:
Hangul.lead_count = #Hangul.leads + 1

Hangul.vowels = {
    [0] = "A", "AE", "YA", "YAE", "EO", "E", "YE0", "YE", "O", "WA",
    "WAE", "OE", "YO", "U", "WE0", "WE", "WI", "YU", "EU", "YI",
    "I"
}
Hangul.vowel_count = #Hangul.vowels + 1

Hangul.trails = {
    [0] = "", "G", "GG", "GS", "N", "NJ", "NH", "D", "L", "LG", "LM", "LB",
    "LS", "LT", "LP", "LH", "M", "B", "BS", "S", "SS", "NG", "J", "C", "K",
    "T", "P", "H"
}
Hangul.trail_count = #Hangul.trails + 1

--For the term "final", see [[Syllable#Chinese model]].
Hangul.final_count = Hangul.vowel_count * Hangul.trail_count

return Hangul
```

## Modul:Unicode data/Hangul/Doku

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**Dies ist die Dokumentationsseite für Modul:Unicode data/Hangul**

Contains data used by [Module:Unicode data](#) to generate the names of characters in the **Hangul Syllables** Unicode block.

## Modul:Unicode data/age

Data for the Age property generated by [Module:Unicode data/age/make](#) from [DerivedAge.txt](#). Used by `lookup_age` in [Module:Unicode data/sandbox](#). For code points not found in `singles` or ranges, the value of the Age property is Unassigned (NA).

```
return {
  singles = [
    [0x0000220] = "3.2",
    [0x0000221] = "4.0",
    [0x0002DF] = "3.0",
    [0x00034F] = "3.2",
    [0x000362] = "3.0",
    [0x00037A] = "1.1",
    [0x00037E] = "1.1",
    [0x00037F] = "7.0",
    [0x00038C] = "1.1",
    [0x0003CF] = "5.1",
    [0x0003D7] = "3.0",
    [0x0003DA] = "1.1",
    [0x0003DB] = "3.0",
    [0x0003DC] = "1.1",
    [0x0003DD] = "3.0",
    [0x0003DE] = "1.1",
    [0x0003DF] = "3.0",
    [0x0003E0] = "1.1",
    [0x0003E1] = "3.0",
    [0x0003F6] = "3.2",
    [0x000400] = "3.0",
    [0x00040D] = "3.0",
    [0x000450] = "3.0",
    [0x00045D] = "3.0",
    [0x000487] = "5.1",
    [0x0004CF] = "5.0",
    [0x000560] = "11.0",
    [0x000588] = "11.0",
    [0x000589] = "1.1",
    [0x00058A] = "3.0",
    [0x00058F] = "6.1",
    [0x0005A2] = "4.1",
    [0x0005BA] = "5.0",
    [0x0005C4] = "2.0",
    [0x0005EF] = "11.0",
    [0x000604] = "6.1",
    [0x000605] = "7.0",
    [0x00060B] = "4.1",
    [0x00060C] = "1.1",
    [0x00061B] = "1.1",
    [0x00061C] = "6.3",
    [0x00061D] = "14.0",
    [0x00061E] = "4.1",
    [0x00061F] = "1.1",
    [0x000620] = "6.0",
    [0x00065F] = "6.0",
    [0x0006BF] = "3.0",
    [0x0006CF] = "3.0",
    [0x0006FF] = "4.0",
    [0x0007B1] = "3.2",
    [0x00085E] = "6.0",
  ]
}
```

[0x0008A0]	=	"6.1",
[0x0008A1]	=	"7.0",
[0x0008B5]	=	"14.0",
[0x0008D3]	=	"11.0",
[0x0008E3]	=	"8.0",
[0x0008FF]	=	"7.0",
[0x000900]	=	"5.2",
[0x000904]	=	"4.0",
[0x00094E]	=	"5.2",
[0x00094F]	=	"6.0",
[0x000955]	=	"5.2",
[0x000978]	=	"7.0",
[0x00097D]	=	"4.1",
[0x000980]	=	"7.0",
[0x0009B2]	=	"1.1",
[0x0009BC]	=	"1.1",
[0x0009BD]	=	"4.0",
[0x0009CE]	=	"4.1",
[0x0009D7]	=	"1.1",
[0x0009FB]	=	"5.2",
[0x0009FE]	=	"11.0",
[0x000A01]	=	"4.0",
[0x000A02]	=	"1.1",
[0x000A03]	=	"4.0",
[0x000A3C]	=	"1.1",
[0x000A51]	=	"5.1",
[0x000A5E]	=	"1.1",
[0x000A75]	=	"5.1",
[0x000A76]	=	"11.0",
[0x000A8C]	=	"4.0",
[0x000A8D]	=	"1.1",
[0x000AD0]	=	"1.1",
[0x000AE0]	=	"1.1",
[0x000AF0]	=	"6.1",
[0x000AF1]	=	"4.0",
[0x000AF9]	=	"8.0",
[0x000B35]	=	"4.0",
[0x000B44]	=	"5.1",
[0x000B55]	=	"13.0",
[0x000B71]	=	"4.0",
[0x000B9C]	=	"1.1",
[0x000BB6]	=	"4.1",
[0x000BD0]	=	"5.1",
[0x000BD7]	=	"1.1",
[0x000BE6]	=	"4.1",
[0x000C00]	=	"7.0",
[0x000C04]	=	"11.0",
[0x000C34]	=	"7.0",
[0x000C3C]	=	"14.0",
[0x000C3D]	=	"5.1",
[0x000C5A]	=	"8.0",
[0x000C5D]	=	"14.0",
[0x000C77]	=	"12.0",
[0x000C80]	=	"9.0",
[0x000C81]	=	"7.0",
[0x000C84]	=	"11.0",
[0x000CDD]	=	"14.0",
[0x000CDE]	=	"1.1",
[0x000D00]	=	"10.0",
[0x000D01]	=	"7.0",
[0x000D04]	=	"13.0",
[0x000D29]	=	"6.0",
[0x000D3A]	=	"6.0",
[0x000D3D]	=	"5.1",

## Modul: Unicode data

[0x000D44]	=	"5.1",
[0x000D4E]	=	"6.0",
[0x000D4F]	=	"9.0",
[0x000D57]	=	"1.1",
[0x000D5F]	=	"8.0",
[0x000D81]	=	"13.0",
[0x000DBD]	=	"3.0",
[0x000DCA]	=	"3.0",
[0x000DD6]	=	"3.0",
[0x000E84]	=	"1.1",
[0x000E86]	=	"12.0",
[0x000E89]	=	"12.0",
[0x000E8A]	=	"1.1",
[0x000E8C]	=	"12.0",
[0x000E8D]	=	"1.1",
[0x000E98]	=	"12.0",
[0x000EA0]	=	"12.0",
[0x000EA5]	=	"1.1",
[0x000EA7]	=	"1.1",
[0x000EAC]	=	"12.0",
[0x000EBA]	=	"12.0",
[0x000EC6]	=	"1.1",
[0x000F6A]	=	"3.0",
[0x000F96]	=	"3.0",
[0x000F97]	=	"2.0",
[0x000FB8]	=	"3.0",
[0x000FB9]	=	"2.0",
[0x000FCE]	=	"5.1",
[0x000FCF]	=	"3.0",
[0x001022]	=	"5.1",
[0x001028]	=	"5.1",
[0x00102B]	=	"5.1",
[0x0010C7]	=	"6.1",
[0x0010CD]	=	"6.1",
[0x0010FB]	=	"1.1",
[0x0010FC]	=	"4.1",
[0x001207]	=	"4.1",
[0x001247]	=	"4.1",
[0x001248]	=	"3.0",
[0x001258]	=	"3.0",
[0x001287]	=	"4.1",
[0x001288]	=	"3.0",
[0x0012AF]	=	"4.1",
[0x0012B0]	=	"3.0",
[0x0012C0]	=	"3.0",
[0x0012CF]	=	"4.1",
[0x0012EF]	=	"4.1",
[0x00130F]	=	"4.1",
[0x001310]	=	"3.0",
[0x00131F]	=	"4.1",
[0x001347]	=	"4.1",
[0x0013F5]	=	"8.0",
[0x001400]	=	"5.2",
[0x00170D]	=	"14.0",
[0x001715]	=	"14.0",
[0x00171F]	=	"14.0",
[0x0017DD]	=	"4.0",
[0x00180F]	=	"14.0",
[0x001878]	=	"11.0",
[0x0018AA]	=	"5.1",
[0x001940]	=	"4.0",
[0x0019DA]	=	"5.2",
[0x001B4C]	=	"14.0",
[0x001CF7]	=	"10.0",

```
[0x001CFA] = "12.0",
[0x001DFA] = "14.0",
[0x001DFB] = "9.0",
[0x001DFC] = "6.0",
[0x001DFD] = "5.2",
[0x001E9B] = "2.0",
[0x001F59] = "1.1",
[0x001F5B] = "1.1",
[0x001F5D] = "1.1",
[0x00202F] = "3.0",
[0x002047] = "3.2",
[0x002057] = "3.2",
[0x002064] = "5.1",
[0x002071] = "3.2",
[0x0020AB] = "2.0",
[0x0020AC] = "2.1",
[0x0020B9] = "6.0",
[0x0020BA] = "6.2",
[0x0020BE] = "8.0",
[0x0020BF] = "10.0",
[0x0020C0] = "14.0",
[0x0020EB] = "4.1",
[0x0020F0] = "5.1",
[0x00213B] = "4.0",
[0x00213C] = "4.1",
[0x00214C] = "4.1",
[0x00214F] = "5.1",
[0x002183] = "3.0",
[0x002184] = "5.0",
[0x002189] = "5.2",
[0x002300] = "1.1",
[0x002301] = "3.0",
[0x00237B] = "3.0",
[0x00237C] = "3.2",
[0x0023E8] = "5.2",
[0x0023FF] = "10.0",
[0x0024FF] = "4.0",
[0x002618] = "4.1",
[0x002619] = "3.0",
[0x00269D] = "5.1",
[0x0026B2] = "5.0",
[0x0026CE] = "6.0",
[0x0026E2] = "6.0",
[0x0026E3] = "5.2",
[0x002700] = "7.0",
[0x002705] = "6.0",
[0x002728] = "6.0",
[0x00274C] = "6.0",
[0x00274D] = "1.1",
[0x00274E] = "6.0",
[0x002756] = "1.1",
[0x002757] = "5.2",
[0x0027B0] = "6.0",
[0x0027BF] = "6.0",
[0x0027CB] = "6.1",
[0x0027CC] = "5.1",
[0x0027CD] = "6.1",
[0x002B97] = "13.0",
[0x002BC9] = "12.0",
[0x002BD2] = "10.0",
[0x002BFF] = "12.0",
[0x002C2F] = "14.0",
[0x002C5F] = "14.0",
[0x002C70] = "5.2",
```

## Modul: Unicode data

```
[0x002D27] = "6.1",
[0x002D2D] = "6.1",
[0x002D6F] = "4.1",
[0x002D70] = "6.0",
[0x002D7F] = "6.0",
[0x002E31] = "5.2",
[0x002E4F] = "12.0",
[0x00303E] = "3.0",
[0x00303F] = "1.1",
[0x0030FF] = "3.2",
[0x00312D] = "5.1",
[0x00312E] = "10.0",
[0x00312F] = "11.0",
[0x003250] = "4.0",
[0x00327E] = "4.1",
[0x0032FF] = "12.1",
[0x0033FF] = "4.0",
[0x009FCC] = "6.1",
[0x00A4B4] = "3.2",
[0x00A4C1] = "3.2",
[0x00A4C5] = "3.2",
[0x00A4C6] = "3.0",
[0x00A69E] = "8.0",
[0x00A69F] = "6.1",
[0x00A78F] = "8.0",
[0x00A7AA] = "6.1",
[0x00A7AE] = "9.0",
[0x00A7AF] = "11.0",
[0x00A7D3] = "14.0",
[0x00A7F7] = "7.0",
[0x00A7FA] = "6.0",
[0x00A82C] = "13.0",
[0x00A8C5] = "9.0",
[0x00A95F] = "5.1",
[0x00FB1D] = "3.0",
[0x00FB3E] = "1.1",
[0x00FBC2] = "14.0",
[0x00FDCE] = "14.0",
[0x00FDFF] = "3.2",
[0x00FDFF] = "4.0",
[0x00FE73] = "3.2",
[0x00FE74] = "1.1",
[0x00FEFF] = "1.1",
[0x00FFFF] = "2.1",
[0x01019C] = "13.0",
[0x0101A0] = "7.0",
[0x01031F] = "7.0",
[0x01039F] = "4.0",
[0x01056F] = "7.0",
[0x010808] = "4.0",
[0x01083C] = "4.0",
[0x01083F] = "4.0",
[0x01091F] = "5.0",
[0x01093F] = "5.1",
[0x010A48] = "11.0",
[0x01107F] = "7.0",
[0x0110C2] = "14.0",
[0x0110CD] = "11.0",
[0x011147] = "13.0",
[0x0111CD] = "7.0",
[0x0111DA] = "7.0",
[0x01123E] = "9.0",
[0x011288] = "8.0",
[0x011300] = "8.0",
```

## Modul: Unicode data

```
[0x01133B] = "11.0",
[0x011350] = "8.0",
[0x011357] = "7.0",
[0x01145A] = "13.0",
[0x01145B] = "9.0",
[0x01145D] = "9.0",
[0x01145E] = "11.0",
[0x01145F] = "12.0",
[0x0116B8] = "12.0",
[0x0116B9] = "14.0",
[0x01171A] = "11.0",
[0x0118FF] = "7.0",
[0x011909] = "13.0",
[0x011A9D] = "11.0",
[0x011D3A] = "10.0",
[0x011FB0] = "13.0",
[0x011FFF] = "12.0",
[0x012399] = "8.0",
[0x012474] = "7.0",
[0x016F4F] = "12.0",
[0x016FE0] = "9.0",
[0x016FE1] = "10.0",
[0x016FE4] = "13.0",
[0x01D129] = "5.1",
[0x01D4A2] = "3.1",
[0x01D4BB] = "3.1",
[0x01D4C1] = "4.0",
[0x01D546] = "3.1",
[0x01E2FF] = "12.0",
[0x01E94B] = "12.0",
[0x01EE24] = "6.1",
[0x01EE27] = "6.1",
[0x01EE39] = "6.1",
[0x01EE3B] = "6.1",
[0x01EE42] = "6.1",
[0x01EE47] = "6.1",
[0x01EE49] = "6.1",
[0x01EE4B] = "6.1",
[0x01EE54] = "6.1",
[0x01EE57] = "6.1",
[0x01EE59] = "6.1",
[0x01EE5B] = "6.1",
[0x01EE5D] = "6.1",
[0x01EE5F] = "6.1",
[0x01EE64] = "6.1",
[0x01EE7E] = "6.1",
[0x01F0BF] = "7.0",
[0x01F12F] = "11.0",
[0x01F130] = "6.0",
[0x01F131] = "5.2",
[0x01F13D] = "5.2",
[0x01F13E] = "6.0",
[0x01F13F] = "5.2",
[0x01F142] = "5.2",
[0x01F146] = "5.2",
[0x01F157] = "5.2",
[0x01F15F] = "5.2",
[0x01F16C] = "12.0",
[0x01F179] = "5.2",
[0x01F17A] = "6.0",
[0x01F17F] = "5.2",
[0x01F190] = "5.2",
[0x01F1AD] = "13.0",
[0x01F200] = "5.2",
```

```
[0x01F23B] = "9.0",
[0x01F336] = "7.0",
[0x01F37D] = "7.0",
[0x01F3C5] = "7.0",
[0x01F43F] = "7.0",
[0x01F440] = "6.0",
[0x01F441] = "7.0",
[0x01F4F8] = "7.0",
[0x01F4FF] = "8.0",
[0x01F57A] = "9.0",
[0x01F5A4] = "9.0",
[0x01F600] = "6.1",
[0x01F611] = "6.1",
[0x01F615] = "6.1",
[0x01F616] = "6.0",
[0x01F617] = "6.1",
[0x01F618] = "6.0",
[0x01F619] = "6.1",
[0x01F61A] = "6.0",
[0x01F61B] = "6.1",
[0x01F61F] = "6.1",
[0x01F62C] = "6.1",
[0x01F62D] = "6.0",
[0x01F634] = "6.1",
[0x01F6D0] = "8.0",
[0x01F6D5] = "12.0",
[0x01F6F9] = "11.0",
[0x01F6FA] = "12.0",
[0x01F7F0] = "14.0",
[0x01F90C] = "13.0",
[0x01F91F] = "10.0",
[0x01F930] = "9.0",
[0x01F93F] = "12.0",
[0x01F94C] = "10.0",
[0x01F971] = "12.0",
[0x01F972] = "13.0",
[0x01F979] = "14.0",
[0x01F97A] = "11.0",
[0x01F97B] = "12.0",
[0x01F9C0] = "8.0",
[0x01F9CB] = "13.0",
[0x01F9CC] = "14.0",
[0x01FA74] = "13.0",
[0x0E0001] = "3.1",
},
ranges = {
    { 0x000000, 0x0001F5, "1.1" },
    { 0x0001F6, 0x0001F9, "3.0" },
    { 0x0001FA, 0x000217, "1.1" },
    { 0x000218, 0x00021F, "3.0" },
    { 0x000222, 0x000233, "3.0" },
    { 0x000234, 0x000236, "4.0" },
    { 0x000237, 0x000241, "4.1" },
    { 0x000242, 0x00024F, "5.0" },
    { 0x000250, 0x0002A8, "1.1" },
    { 0x0002A9, 0x0002AD, "3.0" },
    { 0x0002AE, 0x0002AF, "4.0" },
    { 0x0002B0, 0x0002DE, "1.1" },
    { 0x0002E0, 0x0002E9, "1.1" },
    { 0x0002EA, 0x0002EE, "3.0" },
    { 0x0002EF, 0x0002FF, "4.0" },
    { 0x000300, 0x000345, "1.1" },
    { 0x000346, 0x00034E, "3.0" },
    { 0x000350, 0x000357, "4.0" },
}
```

```
{ 0x000358, 0x00035C, "4.1" },
{ 0x00035D, 0x00035F, "4.0" },
{ 0x000360, 0x000361, "1.1" },
{ 0x000363, 0x00036F, "3.2" },
{ 0x000370, 0x000373, "5.1" },
{ 0x000374, 0x000375, "1.1" },
{ 0x000376, 0x000377, "5.1" },
{ 0x00037B, 0x00037D, "5.0" },
{ 0x000384, 0x00038A, "1.1" },
{ 0x00038E, 0x0003A1, "1.1" },
{ 0x0003A3, 0x0003CE, "1.1" },
{ 0x0003D0, 0x0003D6, "1.1" },
{ 0x0003D8, 0x0003D9, "3.2" },
{ 0x0003E2, 0x0003F3, "1.1" },
{ 0x0003F4, 0x0003F5, "3.1" },
{ 0x0003F7, 0x0003FB, "4.0" },
{ 0x0003FC, 0x0003FF, "4.1" },
{ 0x000401, 0x00040C, "1.1" },
{ 0x00040E, 0x00044F, "1.1" },
{ 0x000451, 0x00045C, "1.1" },
{ 0x00045E, 0x000486, "1.1" },
{ 0x000488, 0x000489, "3.0" },
{ 0x00048A, 0x00048B, "3.2" },
{ 0x00048C, 0x00048F, "3.0" },
{ 0x000490, 0x0004C4, "1.1" },
{ 0x0004C5, 0x0004C6, "3.2" },
{ 0x0004C7, 0x0004C8, "1.1" },
{ 0x0004C9, 0x0004CA, "3.2" },
{ 0x0004CB, 0x0004CC, "1.1" },
{ 0x0004CD, 0x0004CE, "3.2" },
{ 0x0004D0, 0x0004EB, "1.1" },
{ 0x0004EC, 0x0004ED, "3.0" },
{ 0x0004EE, 0x0004F5, "1.1" },
{ 0x0004F6, 0x0004F7, "4.1" },
{ 0x0004F8, 0x0004F9, "1.1" },
{ 0x0004FA, 0x0004FF, "5.0" },
{ 0x000500, 0x00050F, "3.2" },
{ 0x000510, 0x000513, "5.0" },
{ 0x000514, 0x000523, "5.1" },
{ 0x000524, 0x000525, "5.2" },
{ 0x000526, 0x000527, "6.0" },
{ 0x000528, 0x00052F, "7.0" },
{ 0x000531, 0x000556, "1.1" },
{ 0x000559, 0x00055F, "1.1" },
{ 0x000561, 0x000587, "1.1" },
{ 0x00058D, 0x00058E, "7.0" },
{ 0x000591, 0x0005A1, "2.0" },
{ 0x0005A3, 0x0005AF, "2.0" },
{ 0x0005B0, 0x0005B9, "1.1" },
{ 0x0005BB, 0x0005C3, "1.1" },
{ 0x0005C5, 0x0005C7, "4.1" },
{ 0x0005D0, 0x0005EA, "1.1" },
{ 0x0005F0, 0x0005F4, "1.1" },
{ 0x000600, 0x000603, "4.0" },
{ 0x000606, 0x00060A, "5.1" },
{ 0x00060D, 0x000615, "4.0" },
{ 0x000616, 0x00061A, "5.1" },
{ 0x000621, 0x00063A, "1.1" },
{ 0x00063B, 0x00063F, "5.1" },
{ 0x000640, 0x000652, "1.1" },
{ 0x000653, 0x000655, "3.0" },
{ 0x000656, 0x000658, "4.0" },
{ 0x000659, 0x00065E, "4.1" },
{ 0x000660, 0x00066D, "1.1" },
```

## Modul: Unicode data

```
{ 0x00066E, 0x00066F, "3.2" },
{ 0x000670, 0x0006B7, "1.1" },
{ 0x0006B8, 0x0006B9, "3.0" },
{ 0x0006BA, 0x0006BE, "1.1" },
{ 0x0006C0, 0x0006CE, "1.1" },
{ 0x0006D0, 0x0006ED, "1.1" },
{ 0x0006EE, 0x0006EF, "4.0" },
{ 0x0006F0, 0x0006F9, "1.1" },
{ 0x0006FA, 0x0006FE, "3.0" },
{ 0x000700, 0x00070D, "3.0" },
{ 0x00070F, 0x00072C, "3.0" },
{ 0x00072D, 0x00072F, "4.0" },
{ 0x000730, 0x00074A, "3.0" },
{ 0x00074D, 0x00074F, "4.0" },
{ 0x000750, 0x00076D, "4.1" },
{ 0x00076E, 0x00077F, "5.1" },
{ 0x000780, 0x0007B0, "3.0" },
{ 0x0007C0, 0x0007FA, "5.0" },
{ 0x0007FD, 0x0007FF, "11.0" },
{ 0x000800, 0x00082D, "5.2" },
{ 0x000830, 0x00083E, "5.2" },
{ 0x000840, 0x00085B, "6.0" },
{ 0x000860, 0x00086A, "10.0" },
{ 0x000870, 0x00088E, "14.0" },
{ 0x000890, 0x000891, "14.0" },
{ 0x000898, 0x00089F, "14.0" },
{ 0x0008A2, 0x0008AC, "6.1" },
{ 0x0008AD, 0x0008B2, "7.0" },
{ 0x0008B3, 0x0008B4, "8.0" },
{ 0x0008B6, 0x0008BD, "9.0" },
{ 0x0008BE, 0x0008C7, "13.0" },
{ 0x0008C8, 0x0008D2, "14.0" },
{ 0x0008D4, 0x0008E2, "9.0" },
{ 0x0008E4, 0x0008FE, "6.1" },
{ 0x000901, 0x000903, "1.1" },
{ 0x000905, 0x000939, "1.1" },
{ 0x00093A, 0x00093B, "6.0" },
{ 0x00093C, 0x00094D, "1.1" },
{ 0x000950, 0x000954, "1.1" },
{ 0x000956, 0x000957, "6.0" },
{ 0x000958, 0x000970, "1.1" },
{ 0x000971, 0x000972, "5.1" },
{ 0x000973, 0x000977, "6.0" },
{ 0x000979, 0x00097A, "5.2" },
{ 0x00097B, 0x00097C, "5.0" },
{ 0x00097E, 0x00097F, "5.0" },
{ 0x000981, 0x000983, "1.1" },
{ 0x000985, 0x00098C, "1.1" },
{ 0x00098F, 0x000990, "1.1" },
{ 0x000993, 0x0009A8, "1.1" },
{ 0x0009AA, 0x0009B0, "1.1" },
{ 0x0009B6, 0x0009B9, "1.1" },
{ 0x0009BE, 0x0009C4, "1.1" },
{ 0x0009C7, 0x0009C8, "1.1" },
{ 0x0009CB, 0x0009CD, "1.1" },
{ 0x0009DC, 0x0009DD, "1.1" },
{ 0x0009DF, 0x0009E3, "1.1" },
{ 0x0009E6, 0x0009FA, "1.1" },
{ 0x0009FC, 0x0009FD, "10.0" },
{ 0x000A05, 0x000A0A, "1.1" },
{ 0x000A0F, 0x000A10, "1.1" },
{ 0x000A13, 0x000A28, "1.1" },
{ 0x000A2A, 0x000A30, "1.1" },
{ 0x000A32, 0x000A33, "1.1" },
```

## Modul: Unicode data

```
{ 0x000A35, 0x000A36, "1.1" },
{ 0x000A38, 0x000A39, "1.1" },
{ 0x000A3E, 0x000A42, "1.1" },
{ 0x000A47, 0x000A48, "1.1" },
{ 0x000A4B, 0x000A4D, "1.1" },
{ 0x000A59, 0x000A5C, "1.1" },
{ 0x000A66, 0x000A74, "1.1" },
{ 0x000A81, 0x000A83, "1.1" },
{ 0x000A85, 0x000A8B, "1.1" },
{ 0x000A8F, 0x000A91, "1.1" },
{ 0x000A93, 0x000AA8, "1.1" },
{ 0x000AAA, 0x000AB0, "1.1" },
{ 0x000AB2, 0x000AB3, "1.1" },
{ 0x000AB5, 0x000AB9, "1.1" },
{ 0x000ABC, 0x000AC5, "1.1" },
{ 0x000AC7, 0x000AC9, "1.1" },
{ 0x000ACB, 0x000ACD, "1.1" },
{ 0x000AE1, 0x000AE3, "4.0" },
{ 0x000AE6, 0x000AEF, "1.1" },
{ 0x000AFA, 0x000AFF, "10.0" },
{ 0x000B01, 0x000B03, "1.1" },
{ 0x000B05, 0x000B0C, "1.1" },
{ 0x000B0F, 0x000B10, "1.1" },
{ 0x000B13, 0x000B28, "1.1" },
{ 0x000B2A, 0x000B30, "1.1" },
{ 0x000B32, 0x000B33, "1.1" },
{ 0x000B36, 0x000B39, "1.1" },
{ 0x000B3C, 0x000B43, "1.1" },
{ 0x000B47, 0x000B48, "1.1" },
{ 0x000B4B, 0x000B4D, "1.1" },
{ 0x000B56, 0x000B57, "1.1" },
{ 0x000B5C, 0x000B5D, "1.1" },
{ 0x000B5F, 0x000B61, "1.1" },
{ 0x000B62, 0x000B63, "5.1" },
{ 0x000B66, 0x000B70, "1.1" },
{ 0x000B72, 0x000B77, "6.0" },
{ 0x000B82, 0x000B83, "1.1" },
{ 0x000B85, 0x000B8A, "1.1" },
{ 0x000B8E, 0x000B90, "1.1" },
{ 0x000B92, 0x000B95, "1.1" },
{ 0x000B99, 0x000B9A, "1.1" },
{ 0x000B9E, 0x000B9F, "1.1" },
{ 0x000BA3, 0x000BA4, "1.1" },
{ 0x000BA8, 0x000BAA, "1.1" },
{ 0x000BAE, 0x000BB5, "1.1" },
{ 0x000BB7, 0x000BB9, "1.1" },
{ 0x000BBe, 0x000BC2, "1.1" },
{ 0x000BC6, 0x000BC8, "1.1" },
{ 0x000BCA, 0x000BCD, "1.1" },
{ 0x000BE7, 0x000BF2, "1.1" },
{ 0x000BF3, 0x000BFA, "4.0" },
{ 0x000C01, 0x000C03, "1.1" },
{ 0x000C05, 0x000C0C, "1.1" },
{ 0x000C0E, 0x000C10, "1.1" },
{ 0x000C12, 0x000C28, "1.1" },
{ 0x000C2A, 0x000C33, "1.1" },
{ 0x000C35, 0x000C39, "1.1" },
{ 0x000C3E, 0x000C44, "1.1" },
{ 0x000C46, 0x000C48, "1.1" },
{ 0x000C4A, 0x000C4D, "1.1" },
{ 0x000C55, 0x000C56, "1.1" },
{ 0x000C58, 0x000C59, "5.1" },
{ 0x000C60, 0x000C61, "1.1" },
{ 0x000C62, 0x000C63, "5.1" },
```

```
{ 0x000C66, 0x000C6F, "1.1" },
{ 0x000C78, 0x000C7F, "5.1" },
{ 0x000C82, 0x000C83, "1.1" },
{ 0x000C85, 0x000C8C, "1.1" },
{ 0x000C8E, 0x000C90, "1.1" },
{ 0x000C92, 0x000CA8, "1.1" },
{ 0x000CAA, 0x000CB3, "1.1" },
{ 0x000CB5, 0x000CB9, "1.1" },
{ 0x000CBC, 0x000CBD, "4.0" },
{ 0x000CBE, 0x000CC4, "1.1" },
{ 0x000CC6, 0x000CC8, "1.1" },
{ 0x000CCA, 0x000CCD, "1.1" },
{ 0x000CD5, 0x000CD6, "1.1" },
{ 0x000CE0, 0x000CE1, "1.1" },
{ 0x000CE2, 0x000CE3, "5.0" },
{ 0x000CE6, 0x000CEF, "1.1" },
{ 0x000CF1, 0x000CF2, "5.0" },
{ 0x000D02, 0x000D03, "1.1" },
{ 0x000D05, 0x000D0C, "1.1" },
{ 0x000D0E, 0x000D10, "1.1" },
{ 0x000D12, 0x000D28, "1.1" },
{ 0x000D2A, 0x000D39, "1.1" },
{ 0x000D3B, 0x000D3C, "10.0" },
{ 0x000D3E, 0x000D43, "1.1" },
{ 0x000D46, 0x000D48, "1.1" },
{ 0x000D4A, 0x000D4D, "1.1" },
{ 0x000D54, 0x000D56, "9.0" },
{ 0x000D58, 0x000D5E, "9.0" },
{ 0x000D60, 0x000D61, "1.1" },
{ 0x000D62, 0x000D63, "5.1" },
{ 0x000D66, 0x000D6F, "1.1" },
{ 0x000D70, 0x000D75, "5.1" },
{ 0x000D76, 0x000D78, "9.0" },
{ 0x000D79, 0x000D7F, "5.1" },
{ 0x000D82, 0x000D83, "3.0" },
{ 0x000D85, 0x000D96, "3.0" },
{ 0x000D9A, 0x000DB1, "3.0" },
{ 0x000DB3, 0x000DBB, "3.0" },
{ 0x000DC0, 0x000DC6, "3.0" },
{ 0x000DCF, 0x000DD4, "3.0" },
{ 0x000DD8, 0x000DDF, "3.0" },
{ 0x000DE6, 0x000DEF, "7.0" },
{ 0x000DF2, 0x000DF4, "3.0" },
{ 0x000E01, 0x000E3A, "1.1" },
{ 0x000E3F, 0x000E5B, "1.1" },
{ 0x000E81, 0x000E82, "1.1" },
{ 0x000E87, 0x000E88, "1.1" },
{ 0x000E8E, 0x000E93, "12.0" },
{ 0x000E94, 0x000E97, "1.1" },
{ 0x000E99, 0x000E9F, "1.1" },
{ 0x000EA1, 0x000EA3, "1.1" },
{ 0x000EA8, 0x000EA9, "12.0" },
{ 0x000EAA, 0x000EAB, "1.1" },
{ 0x000EAD, 0x000EB9, "1.1" },
{ 0x000EBB, 0x000EBD, "1.1" },
{ 0x000EC0, 0x000EC4, "1.1" },
{ 0x000EC8, 0x000ECD, "1.1" },
{ 0x000ED0, 0x000ED9, "1.1" },
{ 0x000EDC, 0x000EDD, "1.1" },
{ 0x000EDE, 0x000EDF, "6.1" },
{ 0x000F00, 0x000F47, "2.0" },
{ 0x000F49, 0x000F69, "2.0" },
{ 0x000F6B, 0x000F6C, "5.1" },
{ 0x000F71, 0x000F8B, "2.0" },
```

## Modul:Unicode data

```
{ 0x000F8C, 0x000F8F, "6.0" },
{ 0x000F90, 0x000F95, "2.0" },
{ 0x000F99, 0x000FAD, "2.0" },
{ 0x000FAE, 0x000FB0, "3.0" },
{ 0x000FB1, 0x000FB7, "2.0" },
{ 0x000FBA, 0x000FBC, "3.0" },
{ 0x000FBE, 0x000FCC, "3.0" },
{ 0x000FD0, 0x000FD1, "4.1" },
{ 0x000FD2, 0x000FD4, "5.1" },
{ 0x000FD5, 0x000FD8, "5.2" },
{ 0x000FD9, 0x000FDA, "6.0" },
{ 0x001000, 0x001021, "3.0" },
{ 0x001023, 0x001027, "3.0" },
{ 0x001029, 0x00102A, "3.0" },
{ 0x00102C, 0x001032, "3.0" },
{ 0x001033, 0x001035, "5.1" },
{ 0x001036, 0x001039, "3.0" },
{ 0x00103A, 0x00103F, "5.1" },
{ 0x001040, 0x001059, "3.0" },
{ 0x00105A, 0x001099, "5.1" },
{ 0x00109A, 0x00109D, "5.2" },
{ 0x00109E, 0x00109F, "5.1" },
{ 0x0010A0, 0x0010C5, "1.1" },
{ 0x0010D0, 0x0010F6, "1.1" },
{ 0x0010F7, 0x0010F8, "3.2" },
{ 0x0010F9, 0x0010FA, "4.1" },
{ 0x0010FD, 0x0010FF, "6.1" },
{ 0x001100, 0x001159, "1.1" },
{ 0x00115A, 0x00115E, "5.2" },
{ 0x00115F, 0x0011A2, "1.1" },
{ 0x0011A3, 0x0011A7, "5.2" },
{ 0x0011A8, 0x0011F9, "1.1" },
{ 0x0011FA, 0x0011FF, "5.2" },
{ 0x001200, 0x001206, "3.0" },
{ 0x001208, 0x001246, "3.0" },
{ 0x00124A, 0x00124D, "3.0" },
{ 0x001250, 0x001256, "3.0" },
{ 0x00125A, 0x00125D, "3.0" },
{ 0x001260, 0x001286, "3.0" },
{ 0x00128A, 0x00128D, "3.0" },
{ 0x001290, 0x0012AE, "3.0" },
{ 0x0012B2, 0x0012B5, "3.0" },
{ 0x0012B8, 0x0012BE, "3.0" },
{ 0x0012C2, 0x0012C5, "3.0" },
{ 0x0012C8, 0x0012CE, "3.0" },
{ 0x0012D0, 0x0012D6, "3.0" },
{ 0x0012D8, 0x0012EE, "3.0" },
{ 0x0012F0, 0x00130E, "3.0" },
{ 0x001312, 0x001315, "3.0" },
{ 0x001318, 0x00131E, "3.0" },
{ 0x001320, 0x001346, "3.0" },
{ 0x001348, 0x00135A, "3.0" },
{ 0x00135D, 0x00135E, "6.0" },
{ 0x00135F, 0x001360, "4.1" },
{ 0x001361, 0x00137C, "3.0" },
{ 0x001380, 0x001399, "4.1" },
{ 0x0013A0, 0x0013F4, "3.0" },
{ 0x0013F8, 0x0013FD, "8.0" },
{ 0x001401, 0x001676, "3.0" },
{ 0x001677, 0x00167F, "5.2" },
{ 0x001680, 0x00169C, "3.0" },
{ 0x0016A0, 0x0016F0, "3.0" },
{ 0x0016F1, 0x0016F8, "7.0" },
{ 0x001700, 0x00170C, "3.2" },
```

```
{ 0x00170E, 0x001714, "3.2" },
{ 0x001720, 0x001736, "3.2" },
{ 0x001740, 0x001753, "3.2" },
{ 0x001760, 0x00176C, "3.2" },
{ 0x00176E, 0x001770, "3.2" },
{ 0x001772, 0x001773, "3.2" },
{ 0x001780, 0x0017DC, "3.0" },
{ 0x0017E0, 0x0017E9, "3.0" },
{ 0x0017F0, 0x0017F9, "4.0" },
{ 0x001800, 0x00180E, "3.0" },
{ 0x001810, 0x001819, "3.0" },
{ 0x001820, 0x001877, "3.0" },
{ 0x001880, 0x0018A9, "3.0" },
{ 0x0018B0, 0x0018F5, "5.2" },
{ 0x001900, 0x00191C, "4.0" },
{ 0x00191D, 0x00191E, "7.0" },
{ 0x001920, 0x00192B, "4.0" },
{ 0x001930, 0x00193B, "4.0" },
{ 0x001944, 0x00196D, "4.0" },
{ 0x001970, 0x001974, "4.0" },
{ 0x001980, 0x0019A9, "4.1" },
{ 0x0019AA, 0x0019AB, "5.2" },
{ 0x0019B0, 0x0019C9, "4.1" },
{ 0x0019D0, 0x0019D9, "4.1" },
{ 0x0019DE, 0x0019DF, "4.1" },
{ 0x0019E0, 0x0019FF, "4.0" },
{ 0x001A00, 0x001A1B, "4.1" },
{ 0x001A1E, 0x001A1F, "4.1" },
{ 0x001A20, 0x001A5E, "5.2" },
{ 0x001A60, 0x001A7C, "5.2" },
{ 0x001A7F, 0x001A89, "5.2" },
{ 0x001A90, 0x001A99, "5.2" },
{ 0x001AA0, 0x001AAD, "5.2" },
{ 0x001AB0, 0x001ABE, "7.0" },
{ 0x001ABF, 0x001AC0, "13.0" },
{ 0x001AC1, 0x001ACE, "14.0" },
{ 0x001B00, 0x001B4B, "5.0" },
{ 0x001B50, 0x001B7C, "5.0" },
{ 0x001B7D, 0x001B7E, "14.0" },
{ 0x001B80, 0x001BAA, "5.1" },
{ 0x001BAB, 0x001BAD, "6.1" },
{ 0x001BAE, 0x001BB9, "5.1" },
{ 0x001BBA, 0x001BBF, "6.1" },
{ 0x001BC0, 0x001BF3, "6.0" },
{ 0x001BFC, 0x001BFF, "6.0" },
{ 0x001C00, 0x001C37, "5.1" },
{ 0x001C3B, 0x001C49, "5.1" },
{ 0x001C4D, 0x001C7F, "5.1" },
{ 0x001C80, 0x001C88, "9.0" },
{ 0x001C90, 0x001CBA, "11.0" },
{ 0x001CBD, 0x001CBF, "11.0" },
{ 0x001CC0, 0x001CC7, "6.1" },
{ 0x001CD0, 0x001CF2, "5.2" },
{ 0x001CF3, 0x001CF6, "6.1" },
{ 0x001CF8, 0x001CF9, "7.0" },
{ 0x001D00, 0x001D6B, "4.0" },
{ 0x001D6C, 0x001DC3, "4.1" },
{ 0x001DC4, 0x001DCA, "5.0" },
{ 0x001DCB, 0x001DE6, "5.1" },
{ 0x001DE7, 0x001DF5, "7.0" },
{ 0x001DF6, 0x001DF9, "10.0" },
{ 0x001DFE, 0x001DFF, "5.0" },
{ 0x001E00, 0x001E9A, "1.1" },
{ 0x001E9C, 0x001E9F, "5.1" },
```

## Modul: Unicode data

```
{ 0x001EA0, 0x001EF9, "1.1" },
{ 0x001EFA, 0x001EFF, "5.1" },
{ 0x001F00, 0x001F15, "1.1" },
{ 0x001F18, 0x001F1D, "1.1" },
{ 0x001F20, 0x001F45, "1.1" },
{ 0x001F48, 0x001F4D, "1.1" },
{ 0x001F50, 0x001F57, "1.1" },
{ 0x001F5F, 0x001F7D, "1.1" },
{ 0x001F80, 0x001FB4, "1.1" },
{ 0x001FB6, 0x001FC4, "1.1" },
{ 0x001FC6, 0x001FD3, "1.1" },
{ 0x001FD6, 0x001FDB, "1.1" },
{ 0x001FDD, 0x001FEF, "1.1" },
{ 0x001FF2, 0x001FF4, "1.1" },
{ 0x001FF6, 0x001FFE, "1.1" },
{ 0x002000, 0x00202E, "1.1" },
{ 0x002030, 0x002046, "1.1" },
{ 0x002048, 0x00204D, "3.0" },
{ 0x00204E, 0x002052, "3.2" },
{ 0x002053, 0x002054, "4.0" },
{ 0x002055, 0x002056, "4.1" },
{ 0x002058, 0x00205E, "4.1" },
{ 0x00205F, 0x002063, "3.2" },
{ 0x002066, 0x002069, "6.3" },
{ 0x00206A, 0x002070, "1.1" },
{ 0x002074, 0x00208E, "1.1" },
{ 0x002090, 0x002094, "4.1" },
{ 0x002095, 0x00209C, "6.0" },
{ 0x0020A0, 0x0020AA, "1.1" },
{ 0x0020AD, 0x0020AF, "3.0" },
{ 0x0020B0, 0x0020B1, "3.2" },
{ 0x0020B2, 0x0020B5, "4.1" },
{ 0x0020B6, 0x0020B8, "5.2" },
{ 0x0020BB, 0x0020BD, "7.0" },
{ 0x0020D0, 0x0020E1, "1.1" },
{ 0x0020E2, 0x0020E3, "3.0" },
{ 0x0020E4, 0x0020EA, "3.2" },
{ 0x0020EC, 0x0020EF, "5.0" },
{ 0x002100, 0x002138, "1.1" },
{ 0x002139, 0x00213A, "3.0" },
{ 0x00213D, 0x00214B, "3.2" },
{ 0x00214D, 0x00214E, "5.0" },
{ 0x002150, 0x002152, "5.2" },
{ 0x002153, 0x002182, "1.1" },
{ 0x002185, 0x002188, "5.1" },
{ 0x00218A, 0x00218B, "8.0" },
{ 0x002190, 0x0021EA, "1.1" },
{ 0x0021EB, 0x0021F3, "3.0" },
{ 0x0021F4, 0x0021FF, "3.2" },
{ 0x002200, 0x0022F1, "1.1" },
{ 0x0022F2, 0x0022FF, "3.2" },
{ 0x002302, 0x00237A, "1.1" },
{ 0x00237D, 0x00239A, "3.0" },
{ 0x00239B, 0x0023CE, "3.2" },
{ 0x0023CF, 0x0023D0, "4.0" },
{ 0x0023D1, 0x0023DB, "4.1" },
{ 0x0023DC, 0x0023E7, "5.0" },
{ 0x0023E9, 0x0023F3, "6.0" },
{ 0x0023F4, 0x0023FA, "7.0" },
{ 0x0023FB, 0x0023FE, "9.0" },
{ 0x002400, 0x002424, "1.1" },
{ 0x002425, 0x002426, "3.0" },
{ 0x002440, 0x00244A, "1.1" },
{ 0x002460, 0x0024EA, "1.1" },
```

## Modul: Unicode data

```
{ 0x0024EB, 0x0024FE, "3.2" },
{ 0x002500, 0x002595, "1.1" },
{ 0x002596, 0x00259F, "3.2" },
{ 0x0025A0, 0x0025EF, "1.1" },
{ 0x0025F0, 0x0025F7, "3.0" },
{ 0x0025F8, 0x0025FF, "3.2" },
{ 0x002600, 0x002613, "1.1" },
{ 0x002614, 0x002615, "4.0" },
{ 0x002616, 0x002617, "3.2" },
{ 0x00261A, 0x00266F, "1.1" },
{ 0x002670, 0x002671, "3.0" },
{ 0x002672, 0x00267D, "3.2" },
{ 0x00267E, 0x00267F, "4.1" },
{ 0x002680, 0x002689, "3.2" },
{ 0x00268A, 0x002691, "4.0" },
{ 0x002692, 0x00269C, "4.1" },
{ 0x00269E, 0x00269F, "5.2" },
{ 0x0026A0, 0x0026A1, "4.0" },
{ 0x0026A2, 0x0026B1, "4.1" },
{ 0x0026B3, 0x0026BC, "5.1" },
{ 0x0026BD, 0x0026BF, "5.2" },
{ 0x0026C0, 0x0026C3, "5.1" },
{ 0x0026C4, 0x0026CD, "5.2" },
{ 0x0026CF, 0x0026E1, "5.2" },
{ 0x0026E4, 0x0026E7, "6.0" },
{ 0x0026E8, 0x0026FF, "5.2" },
{ 0x002701, 0x002704, "1.1" },
{ 0x002706, 0x002709, "1.1" },
{ 0x00270A, 0x00270B, "6.0" },
{ 0x00270C, 0x002727, "1.1" },
{ 0x002729, 0x00274B, "1.1" },
{ 0x00274F, 0x002752, "1.1" },
{ 0x002753, 0x002755, "6.0" },
{ 0x002758, 0x00275E, "1.1" },
{ 0x00275F, 0x002760, "6.0" },
{ 0x002761, 0x002767, "1.1" },
{ 0x002768, 0x002775, "3.2" },
{ 0x002776, 0x002794, "1.1" },
{ 0x002795, 0x002797, "6.0" },
{ 0x002798, 0x0027AF, "1.1" },
{ 0x0027B1, 0x0027BE, "1.1" },
{ 0x0027C0, 0x0027C6, "4.1" },
{ 0x0027C7, 0x0027CA, "5.0" },
{ 0x0027CE, 0x0027CF, "6.0" },
{ 0x0027D0, 0x0027EB, "3.2" },
{ 0x0027EC, 0x0027EF, "5.1" },
{ 0x0027F0, 0x0027FF, "3.2" },
{ 0x002800, 0x0028FF, "3.0" },
{ 0x002900, 0x002AFF, "3.2" },
{ 0x002B00, 0x002B0D, "4.0" },
{ 0x002B0E, 0x002B13, "4.1" },
{ 0x002B14, 0x002B1A, "5.0" },
{ 0x002B1B, 0x002B1F, "5.1" },
{ 0x002B20, 0x002B23, "5.0" },
{ 0x002B24, 0x002B4C, "5.1" },
{ 0x002B4D, 0x002B4F, "7.0" },
{ 0x002B50, 0x002B54, "5.1" },
{ 0x002B55, 0x002B59, "5.2" },
{ 0x002B5A, 0x002B73, "7.0" },
{ 0x002B76, 0x002B95, "7.0" },
{ 0x002B98, 0x002BB9, "7.0" },
{ 0x002BBA, 0x002BBC, "11.0" },
{ 0x002BBD, 0x002BC8, "7.0" },
{ 0x002BCA, 0x002BD1, "7.0" },
```

## Modul:Unicode data

```
{ 0x002BD3, 0x002BEB, "11.0" },
{ 0x002BEC, 0x002BEF, "8.0" },
{ 0x002BF0, 0x002BFE, "11.0" },
{ 0x002C00, 0x002C2E, "4.1" },
{ 0x002C30, 0x002C5E, "4.1" },
{ 0x002C60, 0x002C6C, "5.0" },
{ 0x002C6D, 0x002C6F, "5.1" },
{ 0x002C71, 0x002C73, "5.1" },
{ 0x002C74, 0x002C77, "5.0" },
{ 0x002C78, 0x002C7D, "5.1" },
{ 0x002C7E, 0x002C7F, "5.2" },
{ 0x002C80, 0x002CEA, "4.1" },
{ 0x002CEB, 0x002CF1, "5.2" },
{ 0x002CF2, 0x002CF3, "6.1" },
{ 0x002CF9, 0x002D25, "4.1" },
{ 0x002D30, 0x002D65, "4.1" },
{ 0x002D66, 0x002D67, "6.1" },
{ 0x002D80, 0x002D96, "4.1" },
{ 0x002DA0, 0x002DA6, "4.1" },
{ 0x002DA8, 0x002DAE, "4.1" },
{ 0x002DB0, 0x002DB6, "4.1" },
{ 0x002DB8, 0x002DBE, "4.1" },
{ 0x002DC0, 0x002DC6, "4.1" },
{ 0x002DC8, 0x002DCE, "4.1" },
{ 0x002DD0, 0x002DD6, "4.1" },
{ 0x002DD8, 0x002DDE, "4.1" },
{ 0x002DE0, 0x002DFF, "5.1" },
{ 0x002E00, 0x002E17, "4.1" },
{ 0x002E18, 0x002E1B, "5.1" },
{ 0x002E1C, 0x002E1D, "4.1" },
{ 0x002E1E, 0x002E30, "5.1" },
{ 0x002E32, 0x002E3B, "6.1" },
{ 0x002E3C, 0x002E42, "7.0" },
{ 0x002E43, 0x002E44, "9.0" },
{ 0x002E45, 0x002E49, "10.0" },
{ 0x002E4A, 0x002E4E, "11.0" },
{ 0x002E50, 0x002E52, "13.0" },
{ 0x002E53, 0x002E5D, "14.0" },
{ 0x002E80, 0x002E99, "3.0" },
{ 0x002E9B, 0x002EF3, "3.0" },
{ 0x002F00, 0x002FD5, "3.0" },
{ 0x002FF0, 0x002FFB, "3.0" },
{ 0x003000, 0x003037, "1.1" },
{ 0x003038, 0x00303A, "3.0" },
{ 0x00303B, 0x00303D, "3.2" },
{ 0x003041, 0x003094, "1.1" },
{ 0x003095, 0x003096, "3.2" },
{ 0x003099, 0x00309E, "1.1" },
{ 0x00309F, 0x0030A0, "3.2" },
{ 0x0030A1, 0x0030FE, "1.1" },
{ 0x003105, 0x00312C, "1.1" },
{ 0x003131, 0x00318E, "1.1" },
{ 0x003190, 0x00319F, "1.1" },
{ 0x0031A0, 0x0031B7, "3.0" },
{ 0x0031B8, 0x0031BA, "6.0" },
{ 0x0031BB, 0x0031BF, "13.0" },
{ 0x0031C0, 0x0031CF, "4.1" },
{ 0x0031D0, 0x0031E3, "5.1" },
{ 0x0031F0, 0x0031FF, "3.2" },
{ 0x003200, 0x00321C, "1.1" },
{ 0x00321D, 0x00321E, "4.0" },
{ 0x003220, 0x003243, "1.1" },
{ 0x003244, 0x00324F, "5.2" },
{ 0x003251, 0x00325F, "3.2" },
```

## Modul:Unicode data

```
{ 0x003260, 0x00327B, "1.1" },
{ 0x00327C, 0x00327D, "4.0" },
{ 0x00327F, 0x0032B0, "1.1" },
{ 0x0032B1, 0x0032BF, "3.2" },
{ 0x0032C0, 0x0032CB, "1.1" },
{ 0x0032CC, 0x0032CF, "4.0" },
{ 0x0032D0, 0x0032FE, "1.1" },
{ 0x003300, 0x003376, "1.1" },
{ 0x003377, 0x00337A, "4.0" },
{ 0x00337B, 0x0033DD, "1.1" },
{ 0x0033DE, 0x0033DF, "4.0" },
{ 0x0033E0, 0x0033FE, "1.1" },
{ 0x003400, 0x004DB5, "3.0" },
{ 0x004DB6, 0x004DBF, "13.0" },
{ 0x004DC0, 0x004DFF, "4.0" },
{ 0x004E00, 0x009FA5, "1.1" },
{ 0x009FA6, 0x009FBB, "4.1" },
{ 0x009FBC, 0x009FC3, "5.1" },
{ 0x009FC4, 0x009FCB, "5.2" },
{ 0x009FCD, 0x009FD5, "8.0" },
{ 0x009FD6, 0x009FEA, "10.0" },
{ 0x009FEB, 0x009FEF, "11.0" },
{ 0x009FF0, 0x009FFC, "13.0" },
{ 0x009FFD, 0x009FFF, "14.0" },
{ 0x00A000, 0x00A48C, "3.0" },
{ 0x00A490, 0x00A4A1, "3.0" },
{ 0x00A4A2, 0x00A4A3, "3.2" },
{ 0x00A4A4, 0x00A4B3, "3.0" },
{ 0x00A4B5, 0x00A4C0, "3.0" },
{ 0x00A4C2, 0x00A4C4, "3.0" },
{ 0x00A4D0, 0x00A4FF, "5.2" },
{ 0x00A500, 0x00A62B, "5.1" },
{ 0x00A640, 0x00A65F, "5.1" },
{ 0x00A660, 0x00A661, "6.0" },
{ 0x00A662, 0x00A673, "5.1" },
{ 0x00A674, 0x00A67B, "6.1" },
{ 0x00A67C, 0x00A697, "5.1" },
{ 0x00A698, 0x00A69D, "7.0" },
{ 0x00A6A0, 0x00A6F7, "5.2" },
{ 0x00A700, 0x00A716, "4.1" },
{ 0x00A717, 0x00A71A, "5.0" },
{ 0x00A71B, 0x00A71F, "5.1" },
{ 0x00A720, 0x00A721, "5.0" },
{ 0x00A722, 0x00A78C, "5.1" },
{ 0x00A78D, 0x00A78E, "6.0" },
{ 0x00A790, 0x00A791, "6.0" },
{ 0x00A792, 0x00A793, "6.1" },
{ 0x00A794, 0x00A79F, "7.0" },
{ 0x00A7A0, 0x00A7A9, "6.0" },
{ 0x00A7AB, 0x00A7AD, "7.0" },
{ 0x00A7B0, 0x00A7B1, "7.0" },
{ 0x00A7B2, 0x00A7B7, "8.0" },
{ 0x00A7B8, 0x00A7B9, "11.0" },
{ 0x00A7BA, 0x00A7BF, "12.0" },
{ 0x00A7C0, 0x00A7C1, "14.0" },
{ 0x00A7C2, 0x00A7C6, "12.0" },
{ 0x00A7C7, 0x00A7CA, "13.0" },
{ 0x00A7D0, 0x00A7D1, "14.0" },
{ 0x00A7D5, 0x00A7D9, "14.0" },
{ 0x00A7F2, 0x00A7F4, "14.0" },
{ 0x00A7F5, 0x00A7F6, "13.0" },
{ 0x00A7F8, 0x00A7F9, "6.1" },
{ 0x00A7FB, 0x00A7FF, "5.1" },
{ 0x00A800, 0x00A82B, "4.1" },
```

## Modul:Unicode data

{ 0x00A830, 0x00A839, "5.2" },
{ 0x00A840, 0x00A877, "5.0" },
{ 0x00A880, 0x00A8C4, "5.1" },
{ 0x00A8CE, 0x00A8D9, "5.1" },
{ 0x00A8E0, 0x00A8FB, "5.2" },
{ 0x00A8FC, 0x00A8FD, "8.0" },
{ 0x00A8FE, 0x00A8FF, "11.0" },
{ 0x00A900, 0x00A953, "5.1" },
{ 0x00A960, 0x00A97C, "5.2" },
{ 0x00A980, 0x00A9CD, "5.2" },
{ 0x00A9CF, 0x00A9D9, "5.2" },
{ 0x00A9DE, 0x00A9DF, "5.2" },
{ 0x00A9E0, 0x00A9FE, "7.0" },
{ 0x00AA00, 0x00AA36, "5.1" },
{ 0x00AA40, 0x00AA4D, "5.1" },
{ 0x00AA50, 0x00AA59, "5.1" },
{ 0x00AA5C, 0x00AA5F, "5.1" },
{ 0x00AA60, 0x00AA7B, "5.2" },
{ 0x00AA7C, 0x00AA7F, "7.0" },
{ 0x00AA80, 0x00AAC2, "5.2" },
{ 0x00AADB, 0x00AADF, "5.2" },
{ 0x00AAE0, 0x00AAF6, "6.1" },
{ 0x00AB01, 0x00AB06, "6.0" },
{ 0x00AB09, 0x00AB0E, "6.0" },
{ 0x00AB11, 0x00AB16, "6.0" },
{ 0x00AB20, 0x00AB26, "6.0" },
{ 0x00AB28, 0x00AB2E, "6.0" },
{ 0x00AB30, 0x00AB5F, "7.0" },
{ 0x00AB60, 0x00AB63, "8.0" },
{ 0x00AB64, 0x00AB65, "7.0" },
{ 0x00AB66, 0x00AB67, "12.0" },
{ 0x00AB68, 0x00AB6B, "13.0" },
{ 0x00AB70, 0x00ABB7, "8.0" },
{ 0x00ABC0, 0x00ABED, "5.2" },
{ 0x00ABF0, 0x00ABF9, "5.2" },
{ 0x00AC00, 0x00D7A3, "2.0" },
{ 0x00D7B0, 0x00D7C6, "5.2" },
{ 0x00D7CB, 0x00D7FB, "5.2" },
{ 0x00D800, 0x00DFFF, "2.0" },
{ 0x00E000, 0x00FA2D, "1.1" },
{ 0x00FA2E, 0x00FA2F, "6.1" },
{ 0x00FA30, 0x00FA6A, "3.2" },
{ 0x00FA6B, 0x00FA6D, "5.2" },
{ 0x00FA70, 0x00FAD9, "4.1" },
{ 0x00FB00, 0x00FB06, "1.1" },
{ 0x00FB13, 0x00FB17, "1.1" },
{ 0x00FB1E, 0x00FB36, "1.1" },
{ 0x00FB38, 0x00FB3C, "1.1" },
{ 0x00FB40, 0x00FB41, "1.1" },
{ 0x00FB43, 0x00FB44, "1.1" },
{ 0x00FB46, 0x00FBB1, "1.1" },
{ 0x00FBB2, 0x00FBC1, "6.0" },
{ 0x00FBD3, 0x00FD3F, "1.1" },
{ 0x00FD40, 0x00FD4F, "14.0" },
{ 0x00FD50, 0x00FD8F, "1.1" },
{ 0x00FD92, 0x00FDC7, "1.1" },
{ 0x00FDD0, 0x00FDEF, "3.1" },
{ 0x00FDF0, 0x00FDFB, "1.1" },
{ 0x00FDFE, 0x00FDFF, "14.0" },
{ 0x00FE00, 0x00FE0F, "3.2" },
{ 0x00FE10, 0x00FE19, "4.1" },
{ 0x00FE20, 0x00FE23, "1.1" },
{ 0x00FE24, 0x00FE26, "5.1" },
{ 0x00FE27, 0x00FE2D, "7.0" },

## Modul: Unicode data

```
{ 0x00FE2E, 0x00FE2F, "8.0" },
{ 0x00FE30, 0x00FE44, "1.1" },
{ 0x00FE45, 0x00FE46, "3.2" },
{ 0x00FE47, 0x00FE48, "4.0" },
{ 0x00FE49, 0x00FE52, "1.1" },
{ 0x00FE54, 0x00FE66, "1.1" },
{ 0x00FE68, 0x00FE6B, "1.1" },
{ 0x00FE70, 0x00FE72, "1.1" },
{ 0x00FE76, 0x00FEFC, "1.1" },
{ 0x00FF01, 0x00FF5E, "1.1" },
{ 0x00FF5F, 0x00FF60, "3.2" },
{ 0x00FF61, 0x00FFBE, "1.1" },
{ 0x00FFC2, 0x00FFC7, "1.1" },
{ 0x00FFCA, 0x00FFCF, "1.1" },
{ 0x00FFD2, 0x00FFD7, "1.1" },
{ 0x00FFDA, 0x00FFDC, "1.1" },
{ 0x00FFE0, 0x00FFE6, "1.1" },
{ 0x00FFE8, 0x00FFEE, "1.1" },
{ 0x00FFF9, 0x00FFFFB, "3.0" },
{ 0x00FFFD, 0x00FFFFF, "1.1" },
{ 0x010000, 0x01000B, "4.0" },
{ 0x01000D, 0x010026, "4.0" },
{ 0x010028, 0x01003A, "4.0" },
{ 0x01003C, 0x01003D, "4.0" },
{ 0x01003F, 0x01004D, "4.0" },
{ 0x010050, 0x01005D, "4.0" },
{ 0x010080, 0x0100FA, "4.0" },
{ 0x010100, 0x010102, "4.0" },
{ 0x010107, 0x010133, "4.0" },
{ 0x010137, 0x01013F, "4.0" },
{ 0x010140, 0x01018A, "4.1" },
{ 0x01018B, 0x01018C, "7.0" },
{ 0x01018D, 0x01018E, "9.0" },
{ 0x010190, 0x01019B, "5.1" },
{ 0x0101D0, 0x0101FD, "5.1" },
{ 0x010280, 0x01029C, "5.1" },
{ 0x0102A0, 0x0102D0, "5.1" },
{ 0x0102E0, 0x0102FB, "7.0" },
{ 0x010300, 0x01031E, "3.1" },
{ 0x010320, 0x010323, "3.1" },
{ 0x01032D, 0x01032F, "10.0" },
{ 0x010330, 0x01034A, "3.1" },
{ 0x010350, 0x01037A, "7.0" },
{ 0x010380, 0x01039D, "4.0" },
{ 0x0103A0, 0x0103C3, "4.1" },
{ 0x0103C8, 0x0103D5, "4.1" },
{ 0x010400, 0x010425, "3.1" },
{ 0x010426, 0x010427, "4.0" },
{ 0x010428, 0x01044D, "3.1" },
{ 0x01044E, 0x01049D, "4.0" },
{ 0x0104A0, 0x0104A9, "4.0" },
{ 0x0104B0, 0x0104D3, "9.0" },
{ 0x0104D8, 0x0104FB, "9.0" },
{ 0x010500, 0x010527, "7.0" },
{ 0x010530, 0x010563, "7.0" },
{ 0x010570, 0x01057A, "14.0" },
{ 0x01057C, 0x01058A, "14.0" },
{ 0x01058C, 0x010592, "14.0" },
{ 0x010594, 0x010595, "14.0" },
{ 0x010597, 0x0105A1, "14.0" },
{ 0x0105A3, 0x0105B1, "14.0" },
{ 0x0105B3, 0x0105B9, "14.0" },
{ 0x0105BB, 0x0105BC, "14.0" },
{ 0x010600, 0x010736, "7.0" },
```

## Modul: Unicode data

```
{ 0x010740, 0x010755, "7.0" },
{ 0x010760, 0x010767, "7.0" },
{ 0x010780, 0x010785, "14.0" },
{ 0x010787, 0x0107B0, "14.0" },
{ 0x0107B2, 0x0107BA, "14.0" },
{ 0x010800, 0x010805, "4.0" },
{ 0x01080A, 0x010835, "4.0" },
{ 0x010837, 0x010838, "4.0" },
{ 0x010840, 0x010855, "5.2" },
{ 0x010857, 0x01085F, "5.2" },
{ 0x010860, 0x01089E, "7.0" },
{ 0x0108A7, 0x0108AF, "7.0" },
{ 0x0108E0, 0x0108F2, "8.0" },
{ 0x0108F4, 0x0108F5, "8.0" },
{ 0x0108FB, 0x0108FF, "8.0" },
{ 0x010900, 0x010919, "5.0" },
{ 0x01091A, 0x01091B, "5.2" },
{ 0x010920, 0x010939, "5.1" },
{ 0x010980, 0x0109B7, "6.1" },
{ 0x0109BC, 0x0109BD, "8.0" },
{ 0x0109BE, 0x0109BF, "6.1" },
{ 0x0109C0, 0x0109CF, "8.0" },
{ 0x0109D2, 0x0109FF, "8.0" },
{ 0x010A00, 0x010A03, "4.1" },
{ 0x010A05, 0x010A06, "4.1" },
{ 0x010A0C, 0x010A13, "4.1" },
{ 0x010A15, 0x010A17, "4.1" },
{ 0x010A19, 0x010A33, "4.1" },
{ 0x010A34, 0x010A35, "11.0" },
{ 0x010A38, 0x010A3A, "4.1" },
{ 0x010A3F, 0x010A47, "4.1" },
{ 0x010A50, 0x010A58, "4.1" },
{ 0x010A60, 0x010A7F, "5.2" },
{ 0x010A80, 0x010A9F, "7.0" },
{ 0x010AC0, 0x010AE6, "7.0" },
{ 0x010AEB, 0x010AF6, "7.0" },
{ 0x010B00, 0x010B35, "5.2" },
{ 0x010B39, 0x010B55, "5.2" },
{ 0x010B58, 0x010B72, "5.2" },
{ 0x010B78, 0x010B7F, "5.2" },
{ 0x010B80, 0x010B91, "7.0" },
{ 0x010B99, 0x010B9C, "7.0" },
{ 0x010BA9, 0x010BAF, "7.0" },
{ 0x010C00, 0x010C48, "5.2" },
{ 0x010C80, 0x010CB2, "8.0" },
{ 0x010CC0, 0x010CF2, "8.0" },
{ 0x010CFA, 0x010CFF, "8.0" },
{ 0x010D00, 0x010D27, "11.0" },
{ 0x010D30, 0x010D39, "11.0" },
{ 0x010E60, 0x010E7E, "5.2" },
{ 0x010E80, 0x010EA9, "13.0" },
{ 0x010EAB, 0x010EAD, "13.0" },
{ 0x010EB0, 0x010EB1, "13.0" },
{ 0x010F00, 0x010F27, "11.0" },
{ 0x010F30, 0x010F59, "11.0" },
{ 0x010F70, 0x010F89, "14.0" },
{ 0x010FB0, 0x010FCB, "13.0" },
{ 0x010FE0, 0x010FF6, "12.0" },
{ 0x011000, 0x01104D, "6.0" },
{ 0x011052, 0x01106F, "6.0" },
{ 0x011070, 0x011075, "14.0" },
{ 0x011080, 0x0110C1, "5.2" },
{ 0x0110D0, 0x0110E8, "6.1" },
{ 0x0110F0, 0x0110F9, "6.1" },
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{ 0x011100, 0x011134, "6.1" },
{ 0x011136, 0x011143, "6.1" },
{ 0x011144, 0x011146, "11.0" },
{ 0x011150, 0x011176, "7.0" },
{ 0x011180, 0x0111C8, "6.1" },
{ 0x0111C9, 0x0111CC, "8.0" },
{ 0x0111CE, 0x0111CF, "13.0" },
{ 0x0111D0, 0x0111D9, "6.1" },
{ 0x0111DB, 0x0111DF, "8.0" },
{ 0x0111E1, 0x0111F4, "7.0" },
{ 0x011200, 0x011211, "7.0" },
{ 0x011213, 0x01123D, "7.0" },
{ 0x011280, 0x011286, "8.0" },
{ 0x01128A, 0x01128D, "8.0" },
{ 0x01128F, 0x01129D, "8.0" },
{ 0x01129F, 0x0112A9, "8.0" },
{ 0x0112B0, 0x0112EA, "7.0" },
{ 0x0112F0, 0x0112F9, "7.0" },
{ 0x011301, 0x011303, "7.0" },
{ 0x011305, 0x01130C, "7.0" },
{ 0x01130F, 0x011310, "7.0" },
{ 0x011313, 0x011328, "7.0" },
{ 0x01132A, 0x011330, "7.0" },
{ 0x011332, 0x011333, "7.0" },
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{ 0x011347, 0x011348, "7.0" },
{ 0x01134B, 0x01134D, "7.0" },
{ 0x01135D, 0x011363, "7.0" },
{ 0x011366, 0x01136C, "7.0" },
{ 0x011370, 0x011374, "7.0" },
{ 0x011400, 0x011459, "9.0" },
{ 0x011460, 0x011461, "13.0" },
{ 0x011480, 0x0114C7, "7.0" },
{ 0x0114D0, 0x0114D9, "7.0" },
{ 0x011580, 0x0115B5, "7.0" },
{ 0x0115B8, 0x0115C9, "7.0" },
{ 0x0115CA, 0x0115DD, "8.0" },
{ 0x011600, 0x011644, "7.0" },
{ 0x011650, 0x011659, "7.0" },
{ 0x011660, 0x01166C, "9.0" },
{ 0x011680, 0x0116B7, "6.1" },
{ 0x0116C0, 0x0116C9, "6.1" },
{ 0x011700, 0x011719, "8.0" },
{ 0x01171D, 0x01172B, "8.0" },
{ 0x011730, 0x01173F, "8.0" },
{ 0x011740, 0x011746, "14.0" },
{ 0x011800, 0x01183B, "11.0" },
{ 0x0118A0, 0x0118F2, "7.0" },
{ 0x011900, 0x011906, "13.0" },
{ 0x01190C, 0x011913, "13.0" },
{ 0x011915, 0x011916, "13.0" },
{ 0x011918, 0x011935, "13.0" },
{ 0x011937, 0x011938, "13.0" },
{ 0x01193B, 0x011946, "13.0" },
{ 0x011950, 0x011959, "13.0" },
{ 0x0119A0, 0x0119A7, "12.0" },
{ 0x0119AA, 0x0119D7, "12.0" },
{ 0x0119DA, 0x0119E4, "12.0" },
{ 0x011A00, 0x011A47, "10.0" },
{ 0x011A50, 0x011A83, "10.0" },
{ 0x011A84, 0x011A85, "12.0" },
{ 0x011A86, 0x011A9C, "10.0" },
{ 0x011A9E, 0x011AA2, "10.0" },
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## Modul: Unicode data

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{ 0x011AB0, 0x011ABF, "14.0" },
{ 0x011AC0, 0x011AF8, "7.0" },
{ 0x011C00, 0x011C08, "9.0" },
{ 0x011C0A, 0x011C36, "9.0" },
{ 0x011C38, 0x011C45, "9.0" },
{ 0x011C50, 0x011C6C, "9.0" },
{ 0x011C70, 0x011C8F, "9.0" },
{ 0x011C92, 0x011CA7, "9.0" },
{ 0x011CA9, 0x011CB6, "9.0" },
{ 0x011D00, 0x011D06, "10.0" },
{ 0x011D08, 0x011D09, "10.0" },
{ 0x011D0B, 0x011D36, "10.0" },
{ 0x011D3C, 0x011D3D, "10.0" },
{ 0x011D3F, 0x011D47, "10.0" },
{ 0x011D50, 0x011D59, "10.0" },
{ 0x011D60, 0x011D65, "11.0" },
{ 0x011D67, 0x011D68, "11.0" },
{ 0x011D6A, 0x011D8E, "11.0" },
{ 0x011D90, 0x011D91, "11.0" },
{ 0x011D93, 0x011D98, "11.0" },
{ 0x011DA0, 0x011DA9, "11.0" },
{ 0x011EE0, 0x011EF8, "11.0" },
{ 0x011FC0, 0x011FF1, "12.0" },
{ 0x012000, 0x01236E, "5.0" },
{ 0x01236F, 0x012398, "7.0" },
{ 0x012400, 0x012462, "5.0" },
{ 0x012463, 0x01246E, "7.0" },
{ 0x012470, 0x012473, "5.0" },
{ 0x012480, 0x012543, "8.0" },
{ 0x012F90, 0x012FF2, "14.0" },
{ 0x013000, 0x01342E, "5.2" },
{ 0x013430, 0x013438, "12.0" },
{ 0x014400, 0x014646, "8.0" },
{ 0x016800, 0x016A38, "6.0" },
{ 0x016A40, 0x016A5E, "7.0" },
{ 0x016A60, 0x016A69, "7.0" },
{ 0x016A6E, 0x016A6F, "7.0" },
{ 0x016A70, 0x016ABE, "14.0" },
{ 0x016AC0, 0x016AC9, "14.0" },
{ 0x016AD0, 0x016AED, "7.0" },
{ 0x016AF0, 0x016AF5, "7.0" },
{ 0x016B00, 0x016B45, "7.0" },
{ 0x016B50, 0x016B59, "7.0" },
{ 0x016B5B, 0x016B61, "7.0" },
{ 0x016B63, 0x016B77, "7.0" },
{ 0x016B7D, 0x016B8F, "7.0" },
{ 0x016E40, 0x016E9A, "11.0" },
{ 0x016F00, 0x016F44, "6.1" },
{ 0x016F45, 0x016F4A, "12.0" },
{ 0x016F50, 0x016F7E, "6.1" },
{ 0x016F7F, 0x016F87, "12.0" },
{ 0x016F8F, 0x016F9F, "6.1" },
{ 0x016FE2, 0x016FE3, "12.0" },
{ 0x016FF0, 0x016FF1, "13.0" },
{ 0x017000, 0x0187EC, "9.0" },
{ 0x0187ED, 0x0187F1, "11.0" },
{ 0x0187F2, 0x0187F7, "12.0" },
{ 0x018800, 0x018AF2, "9.0" },
{ 0x018AF3, 0x018CD5, "13.0" },
{ 0x018D00, 0x018D08, "13.0" },
{ 0x01AFF0, 0x01AFF3, "14.0" },
{ 0x01AFF5, 0x01AFFB, "14.0" },
{ 0x01AFFD, 0x01AFFE, "14.0" },
{ 0x01B000, 0x01B001, "6.0" },
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```
{ 0x01B002, 0x01B11E, "10.0" },
{ 0x01B11F, 0x01B122, "14.0" },
{ 0x01B150, 0x01B152, "12.0" },
{ 0x01B164, 0x01B167, "12.0" },
{ 0x01B170, 0x01B2FB, "10.0" },
{ 0x01BC00, 0x01BC6A, "7.0" },
{ 0x01BC70, 0x01BC7C, "7.0" },
{ 0x01BC80, 0x01BC88, "7.0" },
{ 0x01BC90, 0x01BC99, "7.0" },
{ 0x01BC9C, 0x01BCA3, "7.0" },
{ 0x01CF00, 0x01CF2D, "14.0" },
{ 0x01CF30, 0x01CF46, "14.0" },
{ 0x01CF50, 0x01CFC3, "14.0" },
{ 0x01D000, 0x01D0F5, "3.1" },
{ 0x01D100, 0x01D126, "3.1" },
{ 0x01D12A, 0x01D1DD, "3.1" },
{ 0x01D1DE, 0x01D1E8, "8.0" },
{ 0x01D1E9, 0x01D1EA, "14.0" },
{ 0x01D200, 0x01D245, "4.1" },
{ 0x01D2E0, 0x01D2F3, "11.0" },
{ 0x01D300, 0x01D356, "4.0" },
{ 0x01D360, 0x01D371, "5.0" },
{ 0x01D372, 0x01D378, "11.0" },
{ 0x01D400, 0x01D454, "3.1" },
{ 0x01D456, 0x01D49C, "3.1" },
{ 0x01D49E, 0x01D49F, "3.1" },
{ 0x01D4A5, 0x01D4A6, "3.1" },
{ 0x01D4A9, 0x01D4AC, "3.1" },
{ 0x01D4AE, 0x01D4B9, "3.1" },
{ 0x01D4BD, 0x01D4C0, "3.1" },
{ 0x01D4C2, 0x01D4C3, "3.1" },
{ 0x01D4C5, 0x01D505, "3.1" },
{ 0x01D507, 0x01D50A, "3.1" },
{ 0x01D50D, 0x01D514, "3.1" },
{ 0x01D516, 0x01D51C, "3.1" },
{ 0x01D51E, 0x01D539, "3.1" },
{ 0x01D53B, 0x01D53E, "3.1" },
{ 0x01D540, 0x01D544, "3.1" },
{ 0x01D54A, 0x01D550, "3.1" },
{ 0x01D552, 0x01D6A3, "3.1" },
{ 0x01D6A4, 0x01D6A5, "4.1" },
{ 0x01D6A8, 0x01D7C9, "3.1" },
{ 0x01D7CA, 0x01D7CB, "5.0" },
{ 0x01D7CE, 0x01D7FF, "3.1" },
{ 0x01D800, 0x01DA8B, "8.0" },
{ 0x01DA9B, 0x01DA9F, "8.0" },
{ 0x01DAA1, 0x01DAAF, "8.0" },
{ 0x01DF00, 0x01DF1E, "14.0" },
{ 0x01E000, 0x01E006, "9.0" },
{ 0x01E008, 0x01E018, "9.0" },
{ 0x01E01B, 0x01E021, "9.0" },
{ 0x01E023, 0x01E024, "9.0" },
{ 0x01E026, 0x01E02A, "9.0" },
{ 0x01E100, 0x01E12C, "12.0" },
{ 0x01E130, 0x01E13D, "12.0" },
{ 0x01E140, 0x01E149, "12.0" },
{ 0x01E14E, 0x01E14F, "12.0" },
{ 0x01E290, 0x01E2AE, "14.0" },
{ 0x01E2C0, 0x01E2F9, "12.0" },
{ 0x01E7E0, 0x01E7E6, "14.0" },
{ 0x01E7E8, 0x01E7EB, "14.0" },
{ 0x01E7ED, 0x01E7EE, "14.0" },
{ 0x01E7F0, 0x01E7FE, "14.0" },
{ 0x01E800, 0x01E8C4, "7.0" },
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{ 0x01E8C7, 0x01E8D6, "7.0" },
{ 0x01E900, 0x01E94A, "9.0" },
{ 0x01E950, 0x01E959, "9.0" },
{ 0x01E95E, 0x01E95F, "9.0" },
{ 0x01EC71, 0x01ECB4, "11.0" },
{ 0x01ED01, 0x01ED3D, "12.0" },
{ 0x01EE00, 0x01EE03, "6.1" },
{ 0x01EE05, 0x01EE1F, "6.1" },
{ 0x01EE21, 0x01EE22, "6.1" },
{ 0x01EE29, 0x01EE32, "6.1" },
{ 0x01EE34, 0x01EE37, "6.1" },
{ 0x01EE4D, 0x01EE4F, "6.1" },
{ 0x01EE51, 0x01EE52, "6.1" },
{ 0x01EE61, 0x01EE62, "6.1" },
{ 0x01EE67, 0x01EE6A, "6.1" },
{ 0x01EE6C, 0x01EE72, "6.1" },
{ 0x01EE74, 0x01EE77, "6.1" },
{ 0x01EE79, 0x01EE7C, "6.1" },
{ 0x01EE80, 0x01EE89, "6.1" },
{ 0x01EE8B, 0x01EE9B, "6.1" },
{ 0x01EEA1, 0x01EEA3, "6.1" },
{ 0x01EEA5, 0x01EEA9, "6.1" },
{ 0x01EEAB, 0x01EEBB, "6.1" },
{ 0x01EEF0, 0x01EEF1, "6.1" },
{ 0x01F000, 0x01F02B, "5.1" },
{ 0x01F030, 0x01F093, "5.1" },
{ 0x01F0A0, 0x01F0AE, "6.0" },
{ 0x01F0B1, 0x01F0BE, "6.0" },
{ 0x01F0C1, 0x01F0CF, "6.0" },
{ 0x01F0D1, 0x01F0DF, "6.0" },
{ 0x01F0E0, 0x01F0F5, "7.0" },
{ 0x01F100, 0x01F10A, "5.2" },
{ 0x01F10B, 0x01F10C, "7.0" },
{ 0x01F10D, 0x01F10F, "13.0" },
{ 0x01F110, 0x01F12E, "5.2" },
{ 0x01F132, 0x01F13C, "6.0" },
{ 0x01F140, 0x01F141, "6.0" },
{ 0x01F143, 0x01F145, "6.0" },
{ 0x01F147, 0x01F149, "6.0" },
{ 0x01F14A, 0x01F14E, "5.2" },
{ 0x01F14F, 0x01F156, "6.0" },
{ 0x01F158, 0x01F15E, "6.0" },
{ 0x01F160, 0x01F169, "6.0" },
{ 0x01F16A, 0x01F16B, "6.1" },
{ 0x01F16D, 0x01F16F, "13.0" },
{ 0x01F170, 0x01F178, "6.0" },
{ 0x01F17B, 0x01F17C, "5.2" },
{ 0x01F17D, 0x01F17E, "6.0" },
{ 0x01F180, 0x01F189, "6.0" },
{ 0x01F18A, 0x01F18D, "5.2" },
{ 0x01F18E, 0x01F18F, "6.0" },
{ 0x01F191, 0x01F19A, "6.0" },
{ 0x01F19B, 0x01F1AC, "9.0" },
{ 0x01F1E6, 0x01F1FF, "6.0" },
{ 0x01F201, 0x01F202, "6.0" },
{ 0x01F210, 0x01F231, "5.2" },
{ 0x01F232, 0x01F23A, "6.0" },
{ 0x01F240, 0x01F248, "5.2" },
{ 0x01F250, 0x01F251, "6.0" },
{ 0x01F260, 0x01F265, "10.0" },
{ 0x01F300, 0x01F320, "6.0" },
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{ 0x01F330, 0x01F335, "6.0" },
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## Modul: Unicode data

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{ 0x01F3A0, 0x01F3C4, "6.0" },
{ 0x01F3C6, 0x01F3CA, "6.0" },
{ 0x01F3CB, 0x01F3CE, "7.0" },
{ 0x01F3CF, 0x01F3D3, "8.0" },
{ 0x01F3D4, 0x01F3DF, "7.0" },
{ 0x01F3E0, 0x01F3F0, "6.0" },
{ 0x01F3F1, 0x01F3F7, "7.0" },
{ 0x01F3F8, 0x01F3FF, "8.0" },
{ 0x01F400, 0x01F43E, "6.0" },
{ 0x01F442, 0x01F4F7, "6.0" },
{ 0x01F4F9, 0x01F4FC, "6.0" },
{ 0x01F4FD, 0x01F4FE, "7.0" },
{ 0x01F500, 0x01F53D, "6.0" },
{ 0x01F53E, 0x01F53F, "7.0" },
{ 0x01F540, 0x01F543, "6.1" },
{ 0x01F544, 0x01F54A, "7.0" },
{ 0x01F54B, 0x01F54F, "8.0" },
{ 0x01F550, 0x01F567, "6.0" },
{ 0x01F568, 0x01F579, "7.0" },
{ 0x01F57B, 0x01F5A3, "7.0" },
{ 0x01F5A5, 0x01F5FA, "7.0" },
{ 0x01F5FB, 0x01F5FF, "6.0" },
{ 0x01F601, 0x01F610, "6.0" },
{ 0x01F612, 0x01F614, "6.0" },
{ 0x01F61C, 0x01F61E, "6.0" },
{ 0x01F620, 0x01F625, "6.0" },
{ 0x01F626, 0x01F627, "6.1" },
{ 0x01F628, 0x01F62B, "6.0" },
{ 0x01F62E, 0x01F62F, "6.1" },
{ 0x01F630, 0x01F633, "6.0" },
{ 0x01F635, 0x01F640, "6.0" },
{ 0x01F641, 0x01F642, "7.0" },
{ 0x01F643, 0x01F644, "8.0" },
{ 0x01F645, 0x01F64F, "6.0" },
{ 0x01F650, 0x01F67F, "7.0" },
{ 0x01F680, 0x01F6C5, "6.0" },
{ 0x01F6C6, 0x01F6CF, "7.0" },
{ 0x01F6D1, 0x01F6D2, "9.0" },
{ 0x01F6D3, 0x01F6D4, "10.0" },
{ 0x01F6D6, 0x01F6D7, "13.0" },
{ 0x01F6DD, 0x01F6DF, "14.0" },
{ 0x01F6E0, 0x01F6EC, "7.0" },
{ 0x01F6F0, 0x01F6F3, "7.0" },
{ 0x01F6F4, 0x01F6F6, "9.0" },
{ 0x01F6F7, 0x01F6F8, "10.0" },
{ 0x01F6FB, 0x01F6FC, "13.0" },
{ 0x01F700, 0x01F773, "6.0" },
{ 0x01F780, 0x01F7D4, "7.0" },
{ 0x01F7D5, 0x01F7D8, "11.0" },
{ 0x01F7E0, 0x01F7EB, "12.0" },
{ 0x01F800, 0x01F80B, "7.0" },
{ 0x01F810, 0x01F847, "7.0" },
{ 0x01F850, 0x01F859, "7.0" },
{ 0x01F860, 0x01F887, "7.0" },
{ 0x01F890, 0x01F8AD, "7.0" },
{ 0x01F8B0, 0x01F8B1, "13.0" },
{ 0x01F900, 0x01F90B, "10.0" },
{ 0x01F90D, 0x01F90F, "12.0" },
{ 0x01F910, 0x01F918, "8.0" },
{ 0x01F919, 0x01F91E, "9.0" },
```

```
{ 0x01F920, 0x01F927, "9.0" },
{ 0x01F928, 0x01F92F, "10.0" },
{ 0x01F931, 0x01F932, "10.0" },
{ 0x01F933, 0x01F93E, "9.0" },
{ 0x01F940, 0x01F94B, "9.0" },
{ 0x01F94D, 0x01F94F, "11.0" },
{ 0x01F950, 0x01F95E, "9.0" },
{ 0x01F95F, 0x01F96B, "10.0" },
{ 0x01F96C, 0x01F970, "11.0" },
{ 0x01F973, 0x01F976, "11.0" },
{ 0x01F977, 0x01F978, "13.0" },
{ 0x01F97C, 0x01F97F, "11.0" },
{ 0x01F980, 0x01F984, "8.0" },
{ 0x01F985, 0x01F991, "9.0" },
{ 0x01F992, 0x01F997, "10.0" },
{ 0x01F998, 0x01F9A2, "11.0" },
{ 0x01F9A3, 0x01F9A4, "13.0" },
{ 0x01F9A5, 0x01F9AA, "12.0" },
{ 0x01F9AB, 0x01F9AD, "13.0" },
{ 0x01F9AE, 0x01F9AF, "12.0" },
{ 0x01F9B0, 0x01F9B9, "11.0" },
{ 0x01F9BA, 0x01F9BF, "12.0" },
{ 0x01F9C1, 0x01F9C2, "11.0" },
{ 0x01F9C3, 0x01F9CA, "12.0" },
{ 0x01F9CD, 0x01F9CF, "12.0" },
{ 0x01F9D0, 0x01F9E6, "10.0" },
{ 0x01F9E7, 0x01F9FF, "11.0" },
{ 0x01FA00, 0x01FA53, "12.0" },
{ 0x01FA60, 0x01FA6D, "11.0" },
{ 0x01FA70, 0x01FA73, "12.0" },
{ 0x01FA78, 0x01FA7A, "12.0" },
{ 0x01FA7B, 0x01FA7C, "14.0" },
{ 0x01FA80, 0x01FA82, "12.0" },
{ 0x01FA83, 0x01FA86, "13.0" },
{ 0x01FA90, 0x01FA95, "12.0" },
{ 0x01FA96, 0x01FAA8, "13.0" },
{ 0x01FAA9, 0x01FAAC, "14.0" },
{ 0x01FAB0, 0x01FAB6, "13.0" },
{ 0x01FAB7, 0x01FABA, "14.0" },
{ 0x01FAC0, 0x01FAC2, "13.0" },
{ 0x01FAC3, 0x01FAC5, "14.0" },
{ 0x01FAD0, 0x01FAD6, "13.0" },
{ 0x01FAD7, 0x01FAD9, "14.0" },
{ 0x01FAE0, 0x01FAE7, "14.0" },
{ 0x01FAF0, 0x01FAF6, "14.0" },
{ 0x01FB00, 0x01FB92, "13.0" },
{ 0x01FB94, 0x01FBBCA, "13.0" },
{ 0x01FBF0, 0x01FBF9, "13.0" },
{ 0x01FFFF, 0x01FFFF, "2.0" },
{ 0x020000, 0x02A6D6, "3.1" },
{ 0x02A6D7, 0x02A6DD, "13.0" },
{ 0x02A6DE, 0x02A6DF, "14.0" },
{ 0x02A700, 0x02B734, "5.2" },
{ 0x02B735, 0x02B738, "14.0" },
{ 0x02B740, 0x02B81D, "6.0" },
{ 0x02B820, 0x02CEA1, "8.0" },
{ 0x02CEB0, 0x02EBE0, "10.0" },
{ 0x02F800, 0x02FA1D, "3.1" },
{ 0x02FFFF, 0x02FFFF, "2.0" },
{ 0x030000, 0x03134A, "13.0" },
{ 0x03FFFF, 0x03FFFF, "2.0" },
{ 0x04FFFF, 0x04FFFF, "2.0" },
{ 0x05FFFF, 0x05FFFF, "2.0" },
{ 0x06FFFF, 0x06FFFF, "2.0" },
```

```
        { 0x07FFFE, 0x07FFFF, "2.0" },
        { 0x08FFFE, 0x08FFFF, "2.0" },
        { 0x09FFFE, 0x09FFFF, "2.0" },
        { 0x0AFFFE, 0x0AFFFF, "2.0" },
        { 0x0BFFFE, 0x0BFFFF, "2.0" },
        { 0x0CFFFE, 0x0CFFFF, "2.0" },
        { 0x0DFFFE, 0x0DFFFF, "2.0" },
        { 0xE00020, 0xE0007F, "3.1" },
        { 0xE0100, 0xE01EF, "4.0" },
        { 0xEFFFFE, 0x10FFFF, "2.0" },
    },
}
```

## Modul:Unicode data/age/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/age**

Data for the Age property generated by [Module:Unicode data/age/make](#) from [DerivedAge.txt](#).  
Used by `lookup_age` in [Module:Unicode data/sandbox](#). For code points not found in singles or ranges, the value of the Age property is Unassigned (NA).

## Modul:Unicode data/aliases

Contains data used by [Module:Unicode data](#) to determine formal name aliases for a Unicode character. Generated from `NameAliases.txt` in the Unicode Character Database using a script at [wikt:User:Kephir/Unicode](#).

```
local correction, control, alternate, figment, abbreviation =
    "correction", "control", "alternate", "figment", "abbreviation"

return {
    [0x000000] = {
        { control, "NULL" },
        { abbreviation, "NUL" };
    };
    [0x000001] = {
        { control, "START OF HEADING" },
        { abbreviation, "SOH" };
    };
    [0x000002] = {
        { control, "START OF TEXT" },
        { abbreviation, "STX" };
    };
    [0x000003] = {
        { control, "END OF TEXT" },
        { abbreviation, "ETX" };
    };
    [0x000004] = {
        { control, "END OF TRANSMISSION" },
        { abbreviation, "EOT" };
    };
    [0x000005] = {
        { control, "ENQUIRY" },
        { abbreviation, "ENQ" };
    };
    [0x000006] = {
        { control, "ACKNOWLEDGE" },
        { abbreviation, "ACK" };
    };
    [0x000007] = {
        { control, "ALERT" },
        { abbreviation, "BEL" };
    };
    [0x000008] = {
        { control, "BACKSPACE" },
        { abbreviation, "BS" };
    };
    [0x000009] = {
        { control, "CHARACTER TABULATION" },
        { control, "HORIZONTAL TABULATION" },
        { abbreviation, "HT" },
        { abbreviation, "TAB" };
    };
    [0x00000a] = {
        { control, "LINE FEED" },
        { control, "NEW LINE" },
        { control, "END OF LINE" },
        { abbreviation, "LF" },
        { abbreviation, "NL" },
        { abbreviation, "EOL" };
    };
}
```

```
};  
[0x00000b] = {  
    { control, "LINE TABULATION" },  
    { control, "VERTICAL TABULATION" },  
    { abbreviation, "VT" };  
};  
[0x00000c] = {  
    { control, "FORM FEED" },  
    { abbreviation, "FF" };  
};  
[0x00000d] = {  
    { control, "CARRIAGE RETURN" },  
    { abbreviation, "CR" };  
};  
[0x00000e] = {  
    { control, "SHIFT OUT" },  
    { control, "LOCKING-SHIFT ONE" },  
    { abbreviation, "SO" };  
};  
[0x00000f] = {  
    { control, "SHIFT IN" },  
    { control, "LOCKING-SHIFT ZERO" },  
    { abbreviation, "SI" };  
};  
[0x000010] = {  
    { control, "DATA LINK ESCAPE" },  
    { abbreviation, "DLE" };  
};  
[0x000011] = {  
    { control, "DEVICE CONTROL ONE" },  
    { abbreviation, "DC1" };  
};  
[0x000012] = {  
    { control, "DEVICE CONTROL TWO" },  
    { abbreviation, "DC2" };  
};  
[0x000013] = {  
    { control, "DEVICE CONTROL THREE" },  
    { abbreviation, "DC3" };  
};  
[0x000014] = {  
    { control, "DEVICE CONTROL FOUR" },  
    { abbreviation, "DC4" };  
};  
[0x000015] = {  
    { control, "NEGATIVE ACKNOWLEDGE" },  
    { abbreviation, "NAK" };  
};  
[0x000016] = {  
    { control, "SYNCHRONOUS IDLE" },  
    { abbreviation, "SYN" };  
};  
[0x000017] = {  
    { control, "END OF TRANSMISSION BLOCK" },  
    { abbreviation, "ETB" };  
};  
[0x000018] = {  
    { control, "CANCEL" },  
    { abbreviation, "CAN" };  
};  
[0x000019] = {  
    { control, "END OF MEDIUM" },  
    { abbreviation, "EOM" };  
};
```

## Modul: Unicode data

```
[0x00001a] = {
    { control, "SUBSTITUTE" };
    { abbreviation, "SUB" };
};
[0x00001b] = {
    { control, "ESCAPE" };
    { abbreviation, "ESC" };
};
[0x00001c] = {
    { control, "INFORMATION SEPARATOR FOUR" };
    { control, "FILE SEPARATOR" };
    { abbreviation, "FS" };
};
[0x00001d] = {
    { control, "INFORMATION SEPARATOR THREE" };
    { control, "GROUP SEPARATOR" };
    { abbreviation, "GS" };
};
[0x00001e] = {
    { control, "INFORMATION SEPARATOR TWO" };
    { control, "RECORD SEPARATOR" };
    { abbreviation, "RS" };
};
[0x00001f] = {
    { control, "INFORMATION SEPARATOR ONE" };
    { control, "UNIT SEPARATOR" };
    { abbreviation, "US" };
};
[0x000020] = {
    { abbreviation, "SP" };
};
[0x00007f] = {
    { control, "DELETE" };
    { abbreviation, "DEL" };
};
[0x000080] = {
    { figment, "PADDING CHARACTER" };
    { abbreviation, "PAD" };
};
[0x000081] = {
    { figment, "HIGH OCTET PRESET" };
    { abbreviation, "HOP" };
};
[0x000082] = {
    { control, "BREAK PERMITTED HERE" };
    { abbreviation, "BPH" };
};
[0x000083] = {
    { control, "NO BREAK HERE" };
    { abbreviation, "NBH" };
};
[0x000084] = {
    { control, "INDEX" };
    { abbreviation, "IND" };
};
[0x000085] = {
    { control, "NEXT LINE" };
    { abbreviation, "NEL" };
};
[0x000086] = {
    { control, "START OF SELECTED AREA" };
    { abbreviation, "SSA" };
};
[0x000087] = {
```

```
        { control, "END OF SELECTED AREA" };
        { abbreviation, "ESA" };
    };
[0x000088] = {
    { control, "CHARACTER TABULATION SET" };
    { control, "HORIZONTAL TABULATION SET" };
    { abbreviation, "HTS" };
};
[0x000089] = {
    { control, "CHARACTER TABULATION WITH JUSTIFICATION" };
    { control, "HORIZONTAL TABULATION WITH JUSTIFICATION" };
    { abbreviation, "HTJ" };
};
[0x00008a] = {
    { control, "LINE TABULATION SET" };
    { control, "VERTICAL TABULATION SET" };
    { abbreviation, "VTS" };
};
[0x00008b] = {
    { control, "PARTIAL LINE FORWARD" };
    { control, "PARTIAL LINE DOWN" };
    { abbreviation, "PLD" };
};
[0x00008c] = {
    { control, "PARTIAL LINE BACKWARD" };
    { control, "PARTIAL LINE UP" };
    { abbreviation, "PLU" };
};
[0x00008d] = {
    { control, "REVERSE LINE FEED" };
    { control, "REVERSE INDEX" };
    { abbreviation, "RI" };
};
[0x00008e] = {
    { control, "SINGLE SHIFT TWO" };
    { control, "SINGLE-SHIFT-2" };
    { abbreviation, "SS2" };
};
[0x00008f] = {
    { control, "SINGLE SHIFT THREE" };
    { control, "SINGLE-SHIFT-3" };
    { abbreviation, "SS3" };
};
[0x000090] = {
    { control, "DEVICE CONTROL STRING" };
    { abbreviation, "DCS" };
};
[0x000091] = {
    { control, "PRIVATE USE ONE" };
    { control, "PRIVATE USE-1" };
    { abbreviation, "PUI" };
};
[0x000092] = {
    { control, "PRIVATE USE TWO" };
    { control, "PRIVATE USE-2" };
    { abbreviation, "PU2" };
};
[0x000093] = {
    { control, "SET TRANSMIT STATE" };
    { abbreviation, "STS" };
};
[0x000094] = {
    { control, "CANCEL CHARACTER" };
    { abbreviation, "CCH" };
};
```

```
};  
[0x000095] = {  
    { control, "MESSAGE WAITING" },  
    { abbreviation, "MW" };  
};  
[0x000096] = {  
    { control, "START OF GUARDED AREA" },  
    { control, "START OF PROTECTED AREA" },  
    { abbreviation, "SPA" };  
};  
[0x000097] = {  
    { control, "END OF GUARDED AREA" },  
    { control, "END OF PROTECTED AREA" },  
    { abbreviation, "EPA" };  
};  
[0x000098] = {  
    { control, "START OF STRING" },  
    { abbreviation, "SOS" };  
};  
[0x000099] = {  
    { figment, "SINGLE GRAPHIC CHARACTER INTRODUCER" },  
    { abbreviation, "SGC" };  
};  
[0x00009a] = {  
    { control, "SINGLE CHARACTER INTRODUCER" },  
    { abbreviation, "SCI" };  
};  
[0x00009b] = {  
    { control, "CONTROL SEQUENCE INTRODUCER" },  
    { abbreviation, "CSI" };  
};  
[0x00009c] = {  
    { control, "STRING TERMINATOR" },  
    { abbreviation, "ST" };  
};  
[0x00009d] = {  
    { control, "OPERATING SYSTEM COMMAND" },  
    { abbreviation, "OSC" };  
};  
[0x00009e] = {  
    { control, "PRIVACY MESSAGE" },  
    { abbreviation, "PM" };  
};  
[0x00009f] = {  
    { control, "APPLICATION PROGRAM COMMAND" },  
    { abbreviation, "APC" };  
};  
[0x0000a0] = {  
    { abbreviation, "NBSP" };  
};  
[0x0000ad] = {  
    { abbreviation, "SHY" };  
};  
[0x0001a2] = {  
    { correction, "LATIN CAPITAL LETTER GHA" };  
};  
[0x0001a3] = {  
    { correction, "LATIN SMALL LETTER GHA" };  
};  
[0x00034f] = {  
    { abbreviation, "CGJ" };  
};  
[0x00061c] = {  
    { abbreviation, "ALM" };
```

```
};  
[0x000709] = {  
    { correction, "SYRIAC SUBLINEAR COLON SKEWED LEFT" };  
};  
[0x000cd8] = {  
    { correction, "KANNADA LETTER LLLA" };  
};  
[0x000e9d] = {  
    { correction, "LAO LETTER F0 FON" };  
};  
[0x000e9f] = {  
    { correction, "LAO LETTER F0 FAY" };  
};  
[0x000ea3] = {  
    { correction, "LAO LETTER R0" };  
};  
[0x000ea5] = {  
    { correction, "LAO LETTER L0" };  
};  
[0x000fd0] = {  
    { correction, "TIBETAN MARK BKA- SHOG GI MGO RGYAN" };  
};  
[0x0011ec] = {  
    { correction, "HANGUL JONGSEONG YESIEUNG-KIYEOK" };  
};  
[0x0011ed] = {  
    { correction, "HANGUL JONGSEONG YESIEUNG-SSANGKIYEOK" };  
};  
[0x0011ee] = {  
    { correction, "HANGUL JONGSEONG SSANGYESIEUNG" };  
};  
[0x0011ef] = {  
    { correction, "HANGUL JONGSEONG YESIEUNG-KHIEUKH" };  
};  
[0x00180b] = {  
    { abbreviation, "FVS1" };  
};  
[0x00180c] = {  
    { abbreviation, "FVS2" };  
};  
[0x00180d] = {  
    { abbreviation, "FVS3" };  
};  
[0x00180e] = {  
    { abbreviation, "MVS" };  
};  
[0x00180f] = {  
    { abbreviation, "FVS4" };  
};  
[0x00200b] = {  
    { abbreviation, "ZWSP" };  
};  
[0x00200c] = {  
    { abbreviation, "ZWNJ" };  
};  
[0x00200d] = {  
    { abbreviation, "ZWJ" };  
};  
[0x00200e] = {  
    { abbreviation, "LRM" };  
};  
[0x00200f] = {  
    { abbreviation, "RLM" };  
};
```

## Modul:Unicode data

```
[0x00202a] = {
    { abbreviation, "LRE" };}
[0x00202b] = {
    { abbreviation, "RLE" };}
[0x00202c] = {
    { abbreviation, "PDF" };}
[0x00202d] = {
    { abbreviation, "LRO" };}
[0x00202e] = {
    { abbreviation, "RLO" };}
[0x00202f] = {
    { abbreviation, "NNBSP" };}
[0x00205f] = {
    { abbreviation, "MMSP" };}
[0x002060] = {
    { abbreviation, "WJ" };}
[0x002066] = {
    { abbreviation, "LRI" };}
[0x002067] = {
    { abbreviation, "RLI" };}
[0x002068] = {
    { abbreviation, "FSI" };}
[0x002069] = {
    { abbreviation, "PDI" };}
[0x002118] = {
    { correction, "WEIERSTRASS ELLIPTIC FUNCTION" };}
[0x002448] = {
    { correction, "MICR ON US SYMBOL" };}
[0x002449] = {
    { correction, "MICR DASH SYMBOL" };}
[0x002b7a] = {
    { correction, "LEFTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE VERT" };}
[0x002b7c] = {
    { correction, "RIGHTWARDS TRIANGLE-HEADED ARROW WITH DOUBLE VERT" };}
[0x00a015] = {
    { correction, "YI SYLLABLE ITERATION MARK" };}
[0x00aa6e] = {
    { correction, "MYANMAR LETTER KHAMTI LLA" };}
[0x00fe00] = {
    { abbreviation, "VS1" };}
[0x00fe01] = {
    { abbreviation, "VS2" };}
[0x00fe02] = {
```

```
        { abbreviation, "VS3" };
    };
[0x00fe03] = {
    { abbreviation, "VS4" }};
};
[0x00fe04] = {
    { abbreviation, "VS5" }};
};
[0x00fe05] = {
    { abbreviation, "VS6" }};
};
[0x00fe06] = {
    { abbreviation, "VS7" }};
};
[0x00fe07] = {
    { abbreviation, "VS8" }};
};
[0x00fe08] = {
    { abbreviation, "VS9" }};
};
[0x00fe09] = {
    { abbreviation, "VS10" }};
};
[0x00fe0a] = {
    { abbreviation, "VS11" }};
};
[0x00fe0b] = {
    { abbreviation, "VS12" }};
};
[0x00fe0c] = {
    { abbreviation, "VS13" }};
};
[0x00fe0d] = {
    { abbreviation, "VS14" }};
};
[0x00fe0e] = {
    { abbreviation, "VS15" }};
};
[0x00fe0f] = {
    { abbreviation, "VS16" }};
};
[0x00fe18] = {
    { correction, "PRESENTATION FORM FOR VERTICAL RIGHT WHITE LENT" }};
};
[0x00feff] = {
    { alternate, "BYTE ORDER MARK" };
    { abbreviation, "BOM" };
    { abbreviation, "ZWNBSP" }};
};
[0x0122d4] = {
    { correction, "CUNEIFORM SIGN NU11 TENU" }};
};
[0x0122d5] = {
    { correction, "CUNEIFORM SIGN NU11 OVER NU11 BUR OVER BUR" }};
};
[0x016e56] = {
    { correction, "MEDEFAIDRIN CAPITAL LETTER H" }};
};
[0x016e57] = {
    { correction, "MEDEFAIDRIN CAPITAL LETTER NG" }};
};
[0x016e76] = {
    { correction, "MEDEFAIDRIN SMALL LETTER H" }};
};
```

## Modul:Unicode data

```
[0x016e77] = {
    { correction, "MEDEFAIDRIN SMALL LETTER NG" };
};

[0x01b001] = {
    { correction, "HENTAIGANA LETTER E-1" };
};

[0x01d0c5] = {
    { correction, "BYZANTINE MUSICAL SYMBOL FTHORA SKLIRON CHROMA V" };
};

[0x0e0100] = {
    { abbreviation, "VS17" };
};

[0x0e0101] = {
    { abbreviation, "VS18" };
};

[0x0e0102] = {
    { abbreviation, "VS19" };
};

[0x0e0103] = {
    { abbreviation, "VS20" };
};

[0x0e0104] = {
    { abbreviation, "VS21" };
};

[0x0e0105] = {
    { abbreviation, "VS22" };
};

[0x0e0106] = {
    { abbreviation, "VS23" };
};

[0x0e0107] = {
    { abbreviation, "VS24" };
};

[0x0e0108] = {
    { abbreviation, "VS25" };
};

[0x0e0109] = {
    { abbreviation, "VS26" };
};

[0x0e010a] = {
    { abbreviation, "VS27" };
};

[0x0e010b] = {
    { abbreviation, "VS28" };
};

[0x0e010c] = {
    { abbreviation, "VS29" };
};

[0x0e010d] = {
    { abbreviation, "VS30" };
};

[0x0e010e] = {
    { abbreviation, "VS31" };
};

[0x0e010f] = {
    { abbreviation, "VS32" };
};

[0x0e0110] = {
    { abbreviation, "VS33" };
};

[0x0e0111] = {
    { abbreviation, "VS34" };
};

[0x0e0112] = {
```

```
        { abbreviation, "VS35" };  
};  
[0x0e0113] = {  
    { abbreviation, "VS36" };  
};  
[0x0e0114] = {  
    { abbreviation, "VS37" };  
};  
[0x0e0115] = {  
    { abbreviation, "VS38" };  
};  
[0x0e0116] = {  
    { abbreviation, "VS39" };  
};  
[0x0e0117] = {  
    { abbreviation, "VS40" };  
};  
[0x0e0118] = {  
    { abbreviation, "VS41" };  
};  
[0x0e0119] = {  
    { abbreviation, "VS42" };  
};  
[0x0e011a] = {  
    { abbreviation, "VS43" };  
};  
[0x0e011b] = {  
    { abbreviation, "VS44" };  
};  
[0x0e011c] = {  
    { abbreviation, "VS45" };  
};  
[0x0e011d] = {  
    { abbreviation, "VS46" };  
};  
[0x0e011e] = {  
    { abbreviation, "VS47" };  
};  
[0x0e011f] = {  
    { abbreviation, "VS48" };  
};  
[0x0e0120] = {  
    { abbreviation, "VS49" };  
};  
[0x0e0121] = {  
    { abbreviation, "VS50" };  
};  
[0x0e0122] = {  
    { abbreviation, "VS51" };  
};  
[0x0e0123] = {  
    { abbreviation, "VS52" };  
};  
[0x0e0124] = {  
    { abbreviation, "VS53" };  
};  
[0x0e0125] = {  
    { abbreviation, "VS54" };  
};  
[0x0e0126] = {  
    { abbreviation, "VS55" };  
};  
[0x0e0127] = {  
    { abbreviation, "VS56" };
```

```
    };
    [0x0e0128] = {
        { abbreviation, "VS57" }};
    };
    [0x0e0129] = {
        { abbreviation, "VS58" }};
    };
    [0x0e012a] = {
        { abbreviation, "VS59" }};
    };
    [0x0e012b] = {
        { abbreviation, "VS60" }};
    };
    [0x0e012c] = {
        { abbreviation, "VS61" }};
    };
    [0x0e012d] = {
        { abbreviation, "VS62" }};
    };
    [0x0e012e] = {
        { abbreviation, "VS63" }};
    };
    [0x0e012f] = {
        { abbreviation, "VS64" }};
    };
    [0x0e0130] = {
        { abbreviation, "VS65" }};
    };
    [0x0e0131] = {
        { abbreviation, "VS66" }};
    };
    [0x0e0132] = {
        { abbreviation, "VS67" }};
    };
    [0x0e0133] = {
        { abbreviation, "VS68" }};
    };
    [0x0e0134] = {
        { abbreviation, "VS69" }};
    };
    [0x0e0135] = {
        { abbreviation, "VS70" }};
    };
    [0x0e0136] = {
        { abbreviation, "VS71" }};
    };
    [0x0e0137] = {
        { abbreviation, "VS72" }};
    };
    [0x0e0138] = {
        { abbreviation, "VS73" }};
    };
    [0x0e0139] = {
        { abbreviation, "VS74" }};
    };
    [0x0e013a] = {
        { abbreviation, "VS75" }};
    };
    [0x0e013b] = {
        { abbreviation, "VS76" }};
    };
    [0x0e013c] = {
        { abbreviation, "VS77" }};
    };
```

## Modul:Unicode data

```
[0x0e013d] = {
    { abbreviation, "VS78" }};
};
[0x0e013e] = {
    { abbreviation, "VS79" }};
};
[0x0e013f] = {
    { abbreviation, "VS80" }};
};
[0x0e0140] = {
    { abbreviation, "VS81" }};
};
[0x0e0141] = {
    { abbreviation, "VS82" }};
};
[0x0e0142] = {
    { abbreviation, "VS83" }};
};
[0x0e0143] = {
    { abbreviation, "VS84" }};
};
[0x0e0144] = {
    { abbreviation, "VS85" }};
};
[0x0e0145] = {
    { abbreviation, "VS86" }};
};
[0x0e0146] = {
    { abbreviation, "VS87" }};
};
[0x0e0147] = {
    { abbreviation, "VS88" }};
};
[0x0e0148] = {
    { abbreviation, "VS89" }};
};
[0x0e0149] = {
    { abbreviation, "VS90" }};
};
[0x0e014a] = {
    { abbreviation, "VS91" }};
};
[0x0e014b] = {
    { abbreviation, "VS92" }};
};
[0x0e014c] = {
    { abbreviation, "VS93" }};
};
[0x0e014d] = {
    { abbreviation, "VS94" }};
};
[0x0e014e] = {
    { abbreviation, "VS95" }};
};
[0x0e014f] = {
    { abbreviation, "VS96" }};
};
[0x0e0150] = {
    { abbreviation, "VS97" }};
};
[0x0e0151] = {
    { abbreviation, "VS98" }};
};
[0x0e0152] = {
```

```
        { abbreviation, "VS99" };  
};  
[0x0e0153] = {  
    { abbreviation, "VS100" };  
};  
[0x0e0154] = {  
    { abbreviation, "VS101" };  
};  
[0x0e0155] = {  
    { abbreviation, "VS102" };  
};  
[0x0e0156] = {  
    { abbreviation, "VS103" };  
};  
[0x0e0157] = {  
    { abbreviation, "VS104" };  
};  
[0x0e0158] = {  
    { abbreviation, "VS105" };  
};  
[0x0e0159] = {  
    { abbreviation, "VS106" };  
};  
[0x0e015a] = {  
    { abbreviation, "VS107" };  
};  
[0x0e015b] = {  
    { abbreviation, "VS108" };  
};  
[0x0e015c] = {  
    { abbreviation, "VS109" };  
};  
[0x0e015d] = {  
    { abbreviation, "VS110" };  
};  
[0x0e015e] = {  
    { abbreviation, "VS111" };  
};  
[0x0e015f] = {  
    { abbreviation, "VS112" };  
};  
[0x0e0160] = {  
    { abbreviation, "VS113" };  
};  
[0x0e0161] = {  
    { abbreviation, "VS114" };  
};  
[0x0e0162] = {  
    { abbreviation, "VS115" };  
};  
[0x0e0163] = {  
    { abbreviation, "VS116" };  
};  
[0x0e0164] = {  
    { abbreviation, "VS117" };  
};  
[0x0e0165] = {  
    { abbreviation, "VS118" };  
};  
[0x0e0166] = {  
    { abbreviation, "VS119" };  
};  
[0x0e0167] = {  
    { abbreviation, "VS120" };
```

```
    };
    [0x0e0168] = {
        { abbreviation, "VS121" } ;
    };
    [0x0e0169] = {
        { abbreviation, "VS122" } ;
    };
    [0x0e016a] = {
        { abbreviation, "VS123" } ;
    };
    [0x0e016b] = {
        { abbreviation, "VS124" } ;
    };
    [0x0e016c] = {
        { abbreviation, "VS125" } ;
    };
    [0x0e016d] = {
        { abbreviation, "VS126" } ;
    };
    [0x0e016e] = {
        { abbreviation, "VS127" } ;
    };
    [0x0e016f] = {
        { abbreviation, "VS128" } ;
    };
    [0x0e0170] = {
        { abbreviation, "VS129" } ;
    };
    [0x0e0171] = {
        { abbreviation, "VS130" } ;
    };
    [0x0e0172] = {
        { abbreviation, "VS131" } ;
    };
    [0x0e0173] = {
        { abbreviation, "VS132" } ;
    };
    [0x0e0174] = {
        { abbreviation, "VS133" } ;
    };
    [0x0e0175] = {
        { abbreviation, "VS134" } ;
    };
    [0x0e0176] = {
        { abbreviation, "VS135" } ;
    };
    [0x0e0177] = {
        { abbreviation, "VS136" } ;
    };
    [0x0e0178] = {
        { abbreviation, "VS137" } ;
    };
    [0x0e0179] = {
        { abbreviation, "VS138" } ;
    };
    [0x0e017a] = {
        { abbreviation, "VS139" } ;
    };
    [0x0e017b] = {
        { abbreviation, "VS140" } ;
    };
    [0x0e017c] = {
        { abbreviation, "VS141" } ;
    };
};
```

```
[0x0e017d] = {
    { abbreviation, "VS142" }};
};
[0x0e017e] = {
    { abbreviation, "VS143" }};
};
[0x0e017f] = {
    { abbreviation, "VS144" }};
};
[0x0e0180] = {
    { abbreviation, "VS145" }};
};
[0x0e0181] = {
    { abbreviation, "VS146" }};
};
[0x0e0182] = {
    { abbreviation, "VS147" }};
};
[0x0e0183] = {
    { abbreviation, "VS148" }};
};
[0x0e0184] = {
    { abbreviation, "VS149" }};
};
[0x0e0185] = {
    { abbreviation, "VS150" }};
};
[0x0e0186] = {
    { abbreviation, "VS151" }};
};
[0x0e0187] = {
    { abbreviation, "VS152" }};
};
[0x0e0188] = {
    { abbreviation, "VS153" }};
};
[0x0e0189] = {
    { abbreviation, "VS154" }};
};
[0x0e018a] = {
    { abbreviation, "VS155" }};
};
[0x0e018b] = {
    { abbreviation, "VS156" }};
};
[0x0e018c] = {
    { abbreviation, "VS157" }};
};
[0x0e018d] = {
    { abbreviation, "VS158" }};
};
[0x0e018e] = {
    { abbreviation, "VS159" }};
};
[0x0e018f] = {
    { abbreviation, "VS160" }};
};
[0x0e0190] = {
    { abbreviation, "VS161" }};
};
[0x0e0191] = {
    { abbreviation, "VS162" }};
};
[0x0e0192] = {
```

```
        { abbreviation, "VS163" };
    };
[0x0e0193] = {
    { abbreviation, "VS164" }};
};
[0x0e0194] = {
    { abbreviation, "VS165" }};
};
[0x0e0195] = {
    { abbreviation, "VS166" }};
};
[0x0e0196] = {
    { abbreviation, "VS167" }};
};
[0x0e0197] = {
    { abbreviation, "VS168" }};
};
[0x0e0198] = {
    { abbreviation, "VS169" }};
};
[0x0e0199] = {
    { abbreviation, "VS170" }};
};
[0x0e019a] = {
    { abbreviation, "VS171" }};
};
[0x0e019b] = {
    { abbreviation, "VS172" }};
};
[0x0e019c] = {
    { abbreviation, "VS173" }};
};
[0x0e019d] = {
    { abbreviation, "VS174" }};
};
[0x0e019e] = {
    { abbreviation, "VS175" }};
};
[0x0e019f] = {
    { abbreviation, "VS176" }};
};
[0x0e01a0] = {
    { abbreviation, "VS177" }};
};
[0x0e01a1] = {
    { abbreviation, "VS178" }};
};
[0x0e01a2] = {
    { abbreviation, "VS179" }};
};
[0x0e01a3] = {
    { abbreviation, "VS180" }};
};
[0x0e01a4] = {
    { abbreviation, "VS181" }};
};
[0x0e01a5] = {
    { abbreviation, "VS182" }};
};
[0x0e01a6] = {
    { abbreviation, "VS183" }};
};
[0x0e01a7] = {
    { abbreviation, "VS184" }};
```

```
};  
[0x0e01a8] = {  
    { abbreviation, "VS185" };  
};  
[0x0e01a9] = {  
    { abbreviation, "VS186" };  
};  
[0x0e01aa] = {  
    { abbreviation, "VS187" };  
};  
[0x0e01ab] = {  
    { abbreviation, "VS188" };  
};  
[0x0e01ac] = {  
    { abbreviation, "VS189" };  
};  
[0x0e01ad] = {  
    { abbreviation, "VS190" };  
};  
[0x0e01ae] = {  
    { abbreviation, "VS191" };  
};  
[0x0e01af] = {  
    { abbreviation, "VS192" };  
};  
[0x0e01b0] = {  
    { abbreviation, "VS193" };  
};  
[0x0e01b1] = {  
    { abbreviation, "VS194" };  
};  
[0x0e01b2] = {  
    { abbreviation, "VS195" };  
};  
[0x0e01b3] = {  
    { abbreviation, "VS196" };  
};  
[0x0e01b4] = {  
    { abbreviation, "VS197" };  
};  
[0x0e01b5] = {  
    { abbreviation, "VS198" };  
};  
[0x0e01b6] = {  
    { abbreviation, "VS199" };  
};  
[0x0e01b7] = {  
    { abbreviation, "VS200" };  
};  
[0x0e01b8] = {  
    { abbreviation, "VS201" };  
};  
[0x0e01b9] = {  
    { abbreviation, "VS202" };  
};  
[0x0e01ba] = {  
    { abbreviation, "VS203" };  
};  
[0x0e01bb] = {  
    { abbreviation, "VS204" };  
};  
[0x0e01bc] = {  
    { abbreviation, "VS205" };  
};
```

## Modul:Unicode data

```
[0x0e01bd] = {
    { abbreviation, "VS206" }};
};
[0x0e01be] = {
    { abbreviation, "VS207" }};
};
[0x0e01bf] = {
    { abbreviation, "VS208" }};
};
[0x0e01c0] = {
    { abbreviation, "VS209" }};
};
[0x0e01c1] = {
    { abbreviation, "VS210" }};
};
[0x0e01c2] = {
    { abbreviation, "VS211" }};
};
[0x0e01c3] = {
    { abbreviation, "VS212" }};
};
[0x0e01c4] = {
    { abbreviation, "VS213" }};
};
[0x0e01c5] = {
    { abbreviation, "VS214" }};
};
[0x0e01c6] = {
    { abbreviation, "VS215" }};
};
[0x0e01c7] = {
    { abbreviation, "VS216" }};
};
[0x0e01c8] = {
    { abbreviation, "VS217" }};
};
[0x0e01c9] = {
    { abbreviation, "VS218" }};
};
[0x0e01ca] = {
    { abbreviation, "VS219" }};
};
[0x0e01cb] = {
    { abbreviation, "VS220" }};
};
[0x0e01cc] = {
    { abbreviation, "VS221" }};
};
[0x0e01cd] = {
    { abbreviation, "VS222" }};
};
[0x0e01ce] = {
    { abbreviation, "VS223" }};
};
[0x0e01cf] = {
    { abbreviation, "VS224" }};
};
[0x0e01d0] = {
    { abbreviation, "VS225" }};
};
[0x0e01d1] = {
    { abbreviation, "VS226" }};
};
[0x0e01d2] = {
```

```
        { abbreviation, "VS227" };
    };
[0x0e01d3] = {
    { abbreviation, "VS228" }};
};
[0x0e01d4] = {
    { abbreviation, "VS229" }};
};
[0x0e01d5] = {
    { abbreviation, "VS230" }};
};
[0x0e01d6] = {
    { abbreviation, "VS231" }};
};
[0x0e01d7] = {
    { abbreviation, "VS232" }};
};
[0x0e01d8] = {
    { abbreviation, "VS233" }};
};
[0x0e01d9] = {
    { abbreviation, "VS234" }};
};
[0x0e01da] = {
    { abbreviation, "VS235" }};
};
[0x0e01db] = {
    { abbreviation, "VS236" }};
};
[0x0e01dc] = {
    { abbreviation, "VS237" }};
};
[0x0e01dd] = {
    { abbreviation, "VS238" }};
};
[0x0e01de] = {
    { abbreviation, "VS239" }};
};
[0x0e01df] = {
    { abbreviation, "VS240" }};
};
[0x0e01e0] = {
    { abbreviation, "VS241" }};
};
[0x0e01e1] = {
    { abbreviation, "VS242" }};
};
[0x0e01e2] = {
    { abbreviation, "VS243" }};
};
[0x0e01e3] = {
    { abbreviation, "VS244" }};
};
[0x0e01e4] = {
    { abbreviation, "VS245" }};
};
[0x0e01e5] = {
    { abbreviation, "VS246" }};
};
[0x0e01e6] = {
    { abbreviation, "VS247" }};
};
[0x0e01e7] = {
    { abbreviation, "VS248" }};
```

```
};  
[0x0e01e8] = {  
    { abbreviation, "VS249" };  
};  
[0x0e01e9] = {  
    { abbreviation, "VS250" };  
};  
[0x0e01ea] = {  
    { abbreviation, "VS251" };  
};  
[0x0e01eb] = {  
    { abbreviation, "VS252" };  
};  
[0x0e01ec] = {  
    { abbreviation, "VS253" };  
};  
[0x0e01ed] = {  
    { abbreviation, "VS254" };  
};  
[0x0e01ee] = {  
    { abbreviation, "VS255" };  
};  
[0x0e01ef] = {  
    { abbreviation, "VS256" };  
};  
}
```

## Modul:Unicode data/aliases/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/aliases**

Contains data used by [Module:Unicode data](#) to determine formal name aliases for a Unicode character. Generated from [NameAliases.txt](#) in the Unicode Character Database using a script at [wikt:User:Kephir/Unicode](#).

## Modul:Unicode data/blocks

Insert non-formatted text here Contains data on **Unicode blocks** for [Module:Unicode data](#) derived from [Blocks.txt](#) in the Unicode Character Database.

```
-- Compiled from http://www.unicode.org/Public/UNIDATA/Blocks.txt.
local blocks = {
    { 0x000000, 0x00007F, "Basic Latin"
    { 0x000080, 0x0000FF, "Latin-1 Supplement"
    { 0x000100, 0x00017F, "Latin Extended-A"
    { 0x000180, 0x00024F, "Latin Extended-B"
    { 0x000250, 0x0002AF, "IPA Extensions"
    { 0x0002B0, 0x0002FF, "Spacing Modifier Letters"
    { 0x000300, 0x00036F, "Combining Diacritical Marks"
    { 0x000370, 0x0003FF, "Greek and Coptic"
    { 0x000400, 0x0004FF, "Cyrillic"
    { 0x000500, 0x00052F, "Cyrillic Supplement"
    { 0x000530, 0x00058F, "Armenian"
    { 0x000590, 0x0005FF, "Hebrew"
    { 0x000600, 0x0006FF, "Arabic"
    { 0x000700, 0x00074F, "Syriac"
    { 0x000750, 0x00077F, "Arabic Supplement"
    { 0x000780, 0x0007BF, "Thaana"
    { 0x0007C0, 0x0007FF, "NKo"
    { 0x000800, 0x00083F, "Samaritan"
    { 0x000840, 0x00085F, "Mandaic"
    { 0x000860, 0x00086F, "Syriac Supplement"
    { 0x000870, 0x00089F, "Arabic Extended-B"
    { 0x0008A0, 0x0008FF, "Arabic Extended-A"
    { 0x000900, 0x00097F, "Devanagari"
    { 0x000980, 0x0009FF, "Bengali"
    { 0x000A00, 0x000A7F, "Gurmukhi"
    { 0x000A80, 0x000AFF, "Gujarati"
    { 0x000B00, 0x000B7F, "Oriya"
    { 0x000B80, 0x000BFF, "Tamil"
    { 0x000C00, 0x000C7F, "Telugu"
    { 0x000C80, 0x000CFF, "Kannada"
    { 0x000D00, 0x000D7F, "Malayalam"
    { 0x000D80, 0x000DFF, "Sinhala"
    { 0x000E00, 0x000E7F, "Thai"
    { 0x000E80, 0x000EFF, "Lao"
    { 0x000F00, 0x000FFF, "Tibetan"
    { 0x001000, 0x00109F, "Myanmar"
    { 0x0010A0, 0x0010FF, "Georgian"
    { 0x001100, 0x0011FF, "Hangul Jamo"
    { 0x001200, 0x00137F, "Ethiopic"
    { 0x001380, 0x00139F, "Ethiopic Supplement"
    { 0x0013A0, 0x0013FF, "Cherokee"
    { 0x001400, 0x00167F, "Unified Canadian Aboriginal Syllabics"
    { 0x001680, 0x00169F, "Ogham"
    { 0x0016A0, 0x0016FF, "Runic"
    { 0x001700, 0x00171F, "Tagalog"
    { 0x001720, 0x00173F, "Hanunoo"
    { 0x001740, 0x00175F, "Buhid"
    { 0x001760, 0x00177F, "Tagbanwa"
    { 0x001780, 0x0017FF, "Khmer"
    { 0x001800, 0x0018AF, "Mongolian"
    { 0x0018B0, 0x0018FF, "Unified Canadian Aboriginal Syllabics Extended"
    { 0x001900, 0x00194F, "Limbu"
}
```

```
{ 0x001950, 0x00197F, "Tai Le"
{ 0x001980, 0x0019DF, "New Tai Lue"
{ 0x0019E0, 0x0019FF, "Khmer Symbols"
{ 0x001A00, 0x001A1F, "Buginese"
{ 0x001A20, 0x001AAF, "Tai Tham"
{ 0x001AB0, 0x001AFF, "Combining Diacritical Marks Extended"
{ 0x001B00, 0x001B7F, "Balinese"
{ 0x001B80, 0x001BBF, "Sundanese"
{ 0x001BC0, 0x001BFF, "Batak"
{ 0x001C00, 0x001C4F, "Lepcha"
{ 0x001C50, 0x001C7F, "Ol Chiki"
{ 0x001C80, 0x001C8F, "Cyrillic Extended-C"
{ 0x001C90, 0x001CBF, "Georgian Extended"
{ 0x001CC0, 0x001CCF, "Sundanese Supplement"
{ 0x001CD0, 0x001CFF, "Vedic Extensions"
{ 0x001D00, 0x001D7F, "Phonetic Extensions"
{ 0x001D80, 0x001DBF, "Phonetic Extensions Supplement"
{ 0x001DC0, 0x001DFF, "Combining Diacritical Marks Supplement"
{ 0x001E00, 0x001EFF, "Latin Extended Additional"
{ 0x001F00, 0x001FFF, "Greek Extended"
{ 0x002000, 0x00206F, "General Punctuation"
{ 0x002070, 0x00209F, "Superscripts and Subscripts"
{ 0x0020A0, 0x0020CF, "Currency Symbols"
{ 0x0020D0, 0x0020FF, "Combining Diacritical Marks for Symbols"
{ 0x002100, 0x00214F, "Letterlike Symbols"
{ 0x002150, 0x00218F, "Number Forms"
{ 0x002190, 0x0021FF, "Arrows"
{ 0x002200, 0x0022FF, "Mathematical Operators"
{ 0x002300, 0x0023FF, "Miscellaneous Technical"
{ 0x002400, 0x00243F, "Control Pictures"
{ 0x002440, 0x00245F, "Optical Character Recognition"
{ 0x002460, 0x0024FF, "Enclosed Alphanumerics"
{ 0x002500, 0x00257F, "Box Drawing"
{ 0x002580, 0x00259F, "Block Elements"
{ 0x0025A0, 0x0025FF, "Geometric Shapes"
{ 0x002600, 0x0026FF, "Miscellaneous Symbols"
{ 0x002700, 0x0027BF, "Dingbats"
{ 0x0027C0, 0x0027EF, "Miscellaneous Mathematical Symbols-A"
{ 0x0027F0, 0x0027FF, "Supplemental Arrows-A"
{ 0x002800, 0x0028FF, "Braille Patterns"
{ 0x002900, 0x00297F, "Supplemental Arrows-B"
{ 0x002980, 0x0029FF, "Miscellaneous Mathematical Symbols-B"
{ 0x002A00, 0x002AFF, "Supplemental Mathematical Operators"
{ 0x002B00, 0x002BFF, "Miscellaneous Symbols and Arrows"
{ 0x002C00, 0x002C5F, "Glagolitic"
{ 0x002C60, 0x002C7F, "Latin Extended-C"
{ 0x002C80, 0x002CFF, "Coptic"
{ 0x002D00, 0x002D2F, "Georgian Supplement"
{ 0x002D30, 0x002D7F, "Tifinagh"
{ 0x002D80, 0x002DDF, "Ethiopic Extended"
{ 0x002DE0, 0x002DFF, "Cyrillic Extended-A"
{ 0x002E00, 0x002E7F, "Supplemental Punctuation"
{ 0x002E80, 0x002EFF, "CJK Radicals Supplement"
{ 0x002F00, 0x002FDF, "Kangxi Radicals"
{ 0x002FF0, 0x002FFF, "Ideographic Description Characters"
{ 0x003000, 0x00303F, "CJK Symbols and Punctuation"
{ 0x003040, 0x00309F, "Hiragana"
{ 0x0030A0, 0x0030FF, "Katakana"
{ 0x003100, 0x00312F, "Bopomofo"
{ 0x003130, 0x00318F, "Hangul Compatibility Jamo"
{ 0x003190, 0x00319F, "Kanbun"
{ 0x0031A0, 0x0031BF, "Bopomofo Extended"
{ 0x0031C0, 0x0031EF, "CJK Strokes"
{ 0x0031F0, 0x0031FF, "Katakana Phonetic Extensions"
```

{	0x003200, 0x0032FF, "Enclosed CJK Letters and Months"	}
{	0x003300, 0x0033FF, "CJK Compatibility"	}
{	0x003400, 0x004DBF, "CJK Unified Ideographs Extension A"	}
{	0x004DC0, 0x004DFF, "Yijing Hexagram Symbols"	}
{	0x004E00, 0x009FFF, "CJK Unified Ideographs"	}
{	0x00A000, 0x00A48F, "Yi Syllables"	}
{	0x00A490, 0x00A4CF, "Yi Radicals"	}
{	0x00A4D0, 0x00A4FF, "Lisu"	}
{	0x00A500, 0x00A63F, "Vai"	}
{	0x00A640, 0x00A69F, "Cyrillic Extended-B"	}
{	0x00A6A0, 0x00A6FF, "Bamum"	}
{	0x00A700, 0x00A71F, "Modifier Tone Letters"	}
{	0x00A720, 0x00A7FF, "Latin Extended-D"	}
{	0x00A800, 0x00A82F, "Syloti Nagri"	}
{	0x00A830, 0x00A83F, "Common Indic Number Forms"	}
{	0x00A840, 0x00A87F, "Phags-pa"	}
{	0x00A880, 0x00A8DF, "Saurashtra"	}
{	0x00A8E0, 0x00A8FF, "Devanagari Extended"	}
{	0x00A900, 0x00A92F, "Kayah Li"	}
{	0x00A930, 0x00A95F, "Rejang"	}
{	0x00A960, 0x00A97F, "Hangul Jamo Extended-A"	}
{	0x00A980, 0x00A9DF, "Javanese"	}
{	0x00A9E0, 0x00A9FF, "Myanmar Extended-B"	}
{	0x00AA00, 0x00AA5F, "Cham"	}
{	0x00AA60, 0x00AA7F, "Myanmar Extended-A"	}
{	0x00AA80, 0x00AADF, "Tai Viet"	}
{	0x00AAE0, 0x00AAFF, "Meetei Mayek Extensions"	}
{	0x00AB00, 0x00AB2F, "Ethiopic Extended-A"	}
{	0x00AB30, 0x00AB6F, "Latin Extended-E"	}
{	0x00AB70, 0x00ABB, "Cherokee Supplement"	}
{	0x00ABC0, 0x00ABFF, "Meetei Mayek"	}
{	0x00AC00, 0x00D7AF, "Hangul Syllables"	}
{	0x00D7B0, 0x00D7FF, "Hangul Jamo Extended-B"	}
{	0x00D800, 0x00DB7F, "High Surrogates"	}
{	0x00DB80, 0x00DBFF, "High Private Use Surrogates"	}
{	0x00DC00, 0x00DFFF, "Low Surrogates"	}
{	0x00E000, 0x00F8FF, "Private Use Area"	}
{	0x00F900, 0x00FAFF, "CJK Compatibility Ideographs"	}
{	0x00FB00, 0x00FB4F, "Alphabetic Presentation Forms"	}
{	0x00FB50, 0x00FDFF, "Arabic Presentation Forms-A"	}
{	0x00FE00, 0x00FE0F, "Variation Selectors"	}
{	0x00FE10, 0x00FE1F, "Vertical Forms"	}
{	0x00FE20, 0x00FE2F, "Combining Half Marks"	}
{	0x00FE30, 0x00FE4F, "CJK Compatibility Forms"	}
{	0x00FE50, 0x00FE6F, "Small Form Variants"	}
{	0x00FE70, 0x00FEFF, "Arabic Presentation Forms-B"	}
{	0x00FF00, 0x00FFE, "Halfwidth and Fullwidth Forms"	}
{	0x00FFF0, 0x00FFFF, "Specials"	}
{	0x010000, 0x01007F, "Linear B Syllabary"	}
{	0x010080, 0x0100FF, "Linear B Ideograms"	}
{	0x010100, 0x01013F, "Aegean Numbers"	}
{	0x010140, 0x01018F, "Ancient Greek Numbers"	}
{	0x010190, 0x0101CF, "Ancient Symbols"	}
{	0x0101D0, 0x0101FF, "Phaistos Disc"	}
{	0x010280, 0x01029F, "Lycian"	}
{	0x0102A0, 0x0102DF, "Carian"	}
{	0x0102E0, 0x0102FF, "Coptic Epact Numbers"	}
{	0x010300, 0x01032F, "Old Italic"	}
{	0x010330, 0x01034F, "Gothic"	}
{	0x010350, 0x01037F, "Old Permic"	}
{	0x010380, 0x01039F, "Ugaritic"	}
{	0x0103A0, 0x0103DF, "Old Persian"	}
{	0x010400, 0x01044F, "Deseret"	}
{	0x010450, 0x01047F, "Shavian"	}

```
{ 0x010480, 0x0104AF, "Osmany" }  
{ 0x0104B0, 0x0104FF, "Osage" }  
{ 0x010500, 0x01052F, "Elbasan" }  
{ 0x010530, 0x01056F, "Caucasian Albanian" }  
{ 0x010570, 0x0105BF, "Vithkuqi" }  
{ 0x010600, 0x01077F, "Linear A" }  
{ 0x010780, 0x0107BF, "Latin Extended-F" }  
{ 0x010800, 0x01083F, "Cypriot Syllabary" }  
{ 0x010840, 0x01085F, "Imperial Aramaic" }  
{ 0x010860, 0x01087F, "Palmyrene" }  
{ 0x010880, 0x0108AF, "Nabataean" }  
{ 0x0108E0, 0x0108FF, "Hatran" }  
{ 0x010900, 0x01091F, "Phoenician" }  
{ 0x010920, 0x01093F, "Lydian" }  
{ 0x010980, 0x01099F, "Meroitic Hieroglyphs" }  
{ 0x0109A0, 0x0109FF, "Meroitic Cursive" }  
{ 0x010A00, 0x010A5F, "Kharoshthi" }  
{ 0x010A60, 0x010A7F, "Old South Arabian" }  
{ 0x010A80, 0x010A9F, "Old North Arabian" }  
{ 0x010AC0, 0x010AFF, "Manichaean" }  
{ 0x010B00, 0x010B3F, "Avestan" }  
{ 0x010B40, 0x010B5F, "Inscriptional Parthian" }  
{ 0x010B60, 0x010B7F, "Inscriptional Pahlavi" }  
{ 0x010B80, 0x010BAF, "Psalter Pahlavi" }  
{ 0x010C00, 0x010C4F, "Old Turkic" }  
{ 0x010C80, 0x010CFF, "Old Hungarian" }  
{ 0x010D00, 0x010D3F, "Hanifi Rohingya" }  
{ 0x010E60, 0x010E7F, "Rumi Numeral Symbols" }  
{ 0x010E80, 0x010EBF, "Yezidi" }  
{ 0x010F00, 0x010F2F, "Old Sogdian" }  
{ 0x010F30, 0x010F6F, "Sogdian" }  
{ 0x010F70, 0x010FAF, "Old Uyghur" }  
{ 0x010FB0, 0x010FDF, "Chorasmian" }  
{ 0x010FE0, 0x010FFF, "Elymaic" }  
{ 0x011000, 0x01107F, "Brahmi" }  
{ 0x011080, 0x0110CF, "Kaithi" }  
{ 0x0110D0, 0x0110FF, "Sora Sompeng" }  
{ 0x011100, 0x01114F, "Chakma" }  
{ 0x011150, 0x01117F, "Mahajani" }  
{ 0x011180, 0x0111DF, "Sharada" }  
{ 0x0111E0, 0x0111FF, "Sinhala Archaic Numbers" }  
{ 0x011200, 0x01124F, "Khojki" }  
{ 0x011280, 0x0112AF, "Multani" }  
{ 0x0112B0, 0x0112FF, "Khudawadi" }  
{ 0x011300, 0x01137F, "Grantha" }  
{ 0x011400, 0x01147F, "Newa" }  
{ 0x011480, 0x0114DF, "Tirhuta" }  
{ 0x011580, 0x0115FF, "Siddham" }  
{ 0x011600, 0x01165F, "Modi" }  
{ 0x011660, 0x01167F, "Mongolian Supplement" }  
{ 0x011680, 0x0116CF, "Takri" }  
{ 0x011700, 0x01174F, "Ahom" }  
{ 0x011800, 0x01184F, "Dogra" }  
{ 0x0118A0, 0x0118FF, "Warang Citi" }  
{ 0x011900, 0x01195F, "Dives Akuru" }  
{ 0x0119A0, 0x0119FF, "Nandinagari" }  
{ 0x011A00, 0x011A4F, "Zanabazar Square" }  
{ 0x011A50, 0x011AAF, "Soyombo" }  
{ 0x011AB0, 0x011ABF, "Unified Canadian Aboriginal Syllabics Extended-A" }  
{ 0x011AC0, 0x011AFF, "Pau Cin Hau" }  
{ 0x011C00, 0x011C6F, "Bhaiksuki" }  
{ 0x011C70, 0x011CBF, "Marchen" }  
{ 0x011D00, 0x011D5F, "Masaram Gondi" }  
{ 0x011D60, 0x011DAF, "Gunjala Gondi" }
```

```
{ 0x011EE0, 0x011EFF, "Makasar"
{ 0x011FB0, 0x011FBF, "Lisu Supplement"
{ 0x011FC0, 0x011FFF, "Tamil Supplement"
{ 0x012000, 0x0123FF, "Cuneiform"
{ 0x012400, 0x01247F, "Cuneiform Numbers and Punctuation"
{ 0x012480, 0x01254F, "Early Dynastic Cuneiform"
{ 0x012F90, 0x012FFF, "Cypro-Minoan"
{ 0x013000, 0x01342F, "Egyptian Hieroglyphs"
{ 0x013430, 0x01343F, "Egyptian Hieroglyph Format Controls"
{ 0x014400, 0x01467F, "Anatolian Hieroglyphs"
{ 0x016800, 0x016A3F, "Bamum Supplement"
{ 0x016A40, 0x016A6F, "Mro"
{ 0x016A70, 0x016ACF, "Tangsa"
{ 0x016AD0, 0x016AFF, "Bassa Vah"
{ 0x016B00, 0x016B8F, "Pahawh Hmong"
{ 0x016E40, 0x016E9F, "Medefaidrin"
{ 0x016F00, 0x016F9F, "Miao"
{ 0x016FE0, 0x016FFF, "Ideographic Symbols and Punctuation"
{ 0x017000, 0x0187FF, "Tangut"
{ 0x018800, 0x018AFF, "Tangut Components"
{ 0x018B00, 0x018CFF, "Khitan Small Script"
{ 0x018D00, 0x018D7F, "Tangut Supplement"
{ 0x01AFF0, 0x01AFFF, "Kana Extended-B"
{ 0x01B000, 0x01B0FF, "Kana Supplement"
{ 0x01B100, 0x01B12F, "Kana Extended-A"
{ 0x01B130, 0x01B16F, "Small Kana Extension"
{ 0x01B170, 0x01B2FF, "Nushu"
{ 0x01BC00, 0x01BC9F, "Duployan"
{ 0x01BCA0, 0x01BCAF, "Shorthand Format Controls"
{ 0x01CF00, 0x01CFCF, "Znamenny Musical Notation"
{ 0x01D000, 0x01D0FF, "Byzantine Musical Symbols"
{ 0x01D100, 0x01D1FF, "Musical Symbols"
{ 0x01D200, 0x01D24F, "Ancient Greek Musical Notation"
{ 0x01D2E0, 0x01D2FF, "Mayan Numerals"
{ 0x01D300, 0x01D35F, "Tai Xuan Jing Symbols"
{ 0x01D360, 0x01D37F, "Counting Rod Numerals"
{ 0x01D400, 0x01D7FF, "Mathematical Alphanumeric Symbols"
{ 0x01D800, 0x01DAAF, "Sutton SignWriting"
{ 0x01DF00, 0x01DFFF, "Latin Extended-G"
{ 0x01E000, 0x01E02F, "Glagolitic Supplement"
{ 0x01E100, 0x01E14F, "Nyiakeng Puachue Hmong"
{ 0x01E290, 0x01E2BF, "Toto"
{ 0x01E2C0, 0x01E2FF, "Wancho"
{ 0x01E7E0, 0x01E7FF, "Ethiopic Extended-B"
{ 0x01E800, 0x01E8DF, "Mende Kikakui"
{ 0x01E900, 0x01E95F, "Adlam"
{ 0x01EC70, 0x01ECBF, "Indic Siyaq Numbers"
{ 0x01ED00, 0x01ED4F, "Ottoman Siyaq Numbers"
{ 0x01EE00, 0x01EEFF, "Arabic Mathematical Alphabetic Symbols"
{ 0x01F000, 0x01F02F, "Mahjong Tiles"
{ 0x01F030, 0x01F09F, "Domino Tiles"
{ 0x01F0A0, 0x01F0FF, "Playing Cards"
{ 0x01F100, 0x01F1FF, "Enclosed Alphanumeric Supplement"
{ 0x01F200, 0x01F2FF, "Enclosed Ideographic Supplement"
{ 0x01F300, 0x01F5FF, "Miscellaneous Symbols and Pictographs"
{ 0x01F600, 0x01F64F, "Emoticons"
{ 0x01F650, 0x01F67F, "Ornamental Dingbats"
{ 0x01F680, 0x01F6FF, "Transport and Map Symbols"
{ 0x01F700, 0x01F77F, "Alchemical Symbols"
{ 0x01F780, 0x01F7FF, "Geometric Shapes Extended"
{ 0x01F800, 0x01F8FF, "Supplemental Arrows-C"
{ 0x01F900, 0x01F9FF, "Supplemental Symbols and Pictographs"
{ 0x01FA00, 0x01FA6F, "Chess Symbols"
{ 0x01FA70, 0x01FAFF, "Symbols and Pictographs Extended-A"
```

## Modul: Unicode data

```
{ 0x01FB00, 0x01FBFF, "Symbols for Legacy Computing"
{ 0x020000, 0x02A6DF, "CJK Unified Ideographs Extension B"
{ 0x02A700, 0x02B73F, "CJK Unified Ideographs Extension C"
{ 0x02B740, 0x02B81F, "CJK Unified Ideographs Extension D"
{ 0x02B820, 0x02CEAF, "CJK Unified Ideographs Extension E"
{ 0x02CEB0, 0x02EBEF, "CJK Unified Ideographs Extension F"
{ 0x02F800, 0x02FA1F, "CJK Compatibility Ideographs Supplement"
{ 0x030000, 0x03134F, "CJK Unified Ideographs Extension G"
{ 0x0E0000, 0x0E007F, "Tags"
{ 0x0E0100, 0x0E01EF, "Variation Selectors Supplement"
{ 0x0F0000, 0x0FFFFFF, "Supplementary Private Use Area-A"
{ 0x100000, 0x10FFFF, "Supplementary Private Use Area-B"
}
blocks.length = #blocks

return blocks
```

## Modul:Unicode data/blocks/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/blocks**

Insert non-formatted text here Contains data on **Unicode blocks** for **Module:Unicode data** derived from [Blocks.txt](#) in the Unicode Character Database.

## Modul:Unicode data/category

Unicode **General Category** data generated by [Module:Unicode data/category/make](#) from [DerivedGeneralCategory.txt](#) and [PropertyValueAliases.txt](#) in the Unicode Character Database. The category Cn (Unassigned) is omitted because it is the default for characters not assigned to another category.

```
return {
    singles = {
        [0x00020] = "Zs",
        [0x00024] = "Sc",
        [0x00028] = "Ps",
        [0x00029] = "Pe",
        [0x0002A] = "Po",
        [0x0002B] = "Sm",
        [0x0002C] = "Po",
        [0x0002D] = "Pd",
        [0x0005B] = "Ps",
        [0x0005C] = "Po",
        [0x0005D] = "Pe",
        [0x0005E] = "Sk",
        [0x0005F] = "Pc",
        [0x00060] = "Sk",
        [0x0007B] = "Ps",
        [0x0007C] = "Sm",
        [0x0007D] = "Pe",
        [0x0007E] = "Sm",
        [0x000A0] = "Zs",
        [0x000A1] = "Po",
        [0x000A6] = "So",
        [0x000A7] = "Po",
        [0x000A8] = "Sk",
        [0x000A9] = "So",
        [0x000AA] = "Lo",
        [0x000AB] = "Pi",
        [0x000AC] = "Sm",
        [0x000AD] = "Cf",
        [0x000AE] = "So",
        [0x000AF] = "Sk",
        [0x000B0] = "So",
        [0x000B1] = "Sm",
        [0x000B4] = "Sk",
        [0x000B5] = "Ll",
        [0x000B8] = "Sk",
        [0x000B9] = "No",
        [0x000BA] = "Lo",
        [0x000BB] = "Pf",
        [0x000BF] = "Po",
        [0x000D7] = "Sm",
        [0x000F7] = "Sm",
        [0x00100] = "Lu",
        [0x00101] = "Ll",
        [0x00102] = "Lu",
        [0x00103] = "Ll",
        [0x00104] = "Lu",
        [0x00105] = "Ll",
        [0x00106] = "Lu",
        [0x00107] = "Ll",
```

## Modul: Unicode data

```
[0x00108] = "Lu",
[0x00109] = "Ll",
[0x0010A] = "Lu",
[0x0010B] = "Ll",
[0x0010C] = "Lu",
[0x0010D] = "Ll",
[0x0010E] = "Lu",
[0x0010F] = "Ll",
[0x00110] = "Lu",
[0x00111] = "Ll",
[0x00112] = "Lu",
[0x00113] = "Ll",
[0x00114] = "Lu",
[0x00115] = "Ll",
[0x00116] = "Lu",
[0x00117] = "Ll",
[0x00118] = "Lu",
[0x00119] = "Ll",
[0x0011A] = "Lu",
[0x0011B] = "Ll",
[0x0011C] = "Lu",
[0x0011D] = "Ll",
[0x0011E] = "Lu",
[0x0011F] = "Ll",
[0x00120] = "Lu",
[0x00121] = "Ll",
[0x00122] = "Lu",
[0x00123] = "Ll",
[0x00124] = "Lu",
[0x00125] = "Ll",
[0x00126] = "Lu",
[0x00127] = "Ll",
[0x00128] = "Lu",
[0x00129] = "Ll",
[0x0012A] = "Lu",
[0x0012B] = "Ll",
[0x0012C] = "Lu",
[0x0012D] = "Ll",
[0x0012E] = "Lu",
[0x0012F] = "Ll",
[0x00130] = "Lu",
[0x00131] = "Ll",
[0x00132] = "Lu",
[0x00133] = "Ll",
[0x00134] = "Lu",
[0x00135] = "Ll",
[0x00136] = "Lu",
[0x00139] = "Lu",
[0x0013A] = "Ll",
[0x0013B] = "Lu",
[0x0013C] = "Ll",
[0x0013D] = "Lu",
[0x0013E] = "Ll",
[0x0013F] = "Lu",
[0x00140] = "Ll",
[0x00141] = "Lu",
[0x00142] = "Ll",
[0x00143] = "Lu",
[0x00144] = "Ll",
[0x00145] = "Lu",
[0x00146] = "Ll",
[0x00147] = "Lu",
[0x0014A] = "Lu",
[0x0014B] = "Ll",
```

```
[0x0014C] = "Lu",
[0x0014D] = "Ll",
[0x0014E] = "Lu",
[0x0014F] = "Ll",
[0x00150] = "Lu",
[0x00151] = "Ll",
[0x00152] = "Lu",
[0x00153] = "Ll",
[0x00154] = "Lu",
[0x00155] = "Ll",
[0x00156] = "Lu",
[0x00157] = "Ll",
[0x00158] = "Lu",
[0x00159] = "Ll",
[0x0015A] = "Lu",
[0x0015B] = "Ll",
[0x0015C] = "Lu",
[0x0015D] = "Ll",
[0x0015E] = "Lu",
[0x0015F] = "Ll",
[0x00160] = "Lu",
[0x00161] = "Ll",
[0x00162] = "Lu",
[0x00163] = "Ll",
[0x00164] = "Lu",
[0x00165] = "Ll",
[0x00166] = "Lu",
[0x00167] = "Ll",
[0x00168] = "Lu",
[0x00169] = "Ll",
[0x0016A] = "Lu",
[0x0016B] = "Ll",
[0x0016C] = "Lu",
[0x0016D] = "Ll",
[0x0016E] = "Lu",
[0x0016F] = "Ll",
[0x00170] = "Lu",
[0x00171] = "Ll",
[0x00172] = "Lu",
[0x00173] = "Ll",
[0x00174] = "Lu",
[0x00175] = "Ll",
[0x00176] = "Lu",
[0x00177] = "Ll",
[0x0017A] = "Ll",
[0x0017B] = "Lu",
[0x0017C] = "Ll",
[0x0017D] = "Lu",
[0x00183] = "Ll",
[0x00184] = "Lu",
[0x00185] = "Ll",
[0x00188] = "Ll",
[0x00192] = "Ll",
[0x00195] = "Ll",
[0x0019E] = "Ll",
[0x001A1] = "Ll",
[0x001A2] = "Lu",
[0x001A3] = "Ll",
[0x001A4] = "Lu",
[0x001A5] = "Ll",
[0x001A8] = "Ll",
[0x001A9] = "Lu",
[0x001AC] = "Lu",
[0x001AD] = "Ll",
```

```
[0x001B0] = "Ll",
[0x001B4] = "Ll",
[0x001B5] = "Lu",
[0x001B6] = "Ll",
[0x001BB] = "Lo",
[0x001BC] = "Lu",
[0x001C4] = "Lu",
[0x001C5] = "Lt",
[0x001C6] = "Ll",
[0x001C7] = "Lu",
[0x001C8] = "Lt",
[0x001C9] = "Ll",
[0x001CA] = "Lu",
[0x001CB] = "Lt",
[0x001CC] = "Ll",
[0x001CD] = "Lu",
[0x001CE] = "Ll",
[0x001CF] = "Lu",
[0x001D0] = "Ll",
[0x001D1] = "Lu",
[0x001D2] = "Ll",
[0x001D3] = "Lu",
[0x001D4] = "Ll",
[0x001D5] = "Lu",
[0x001D6] = "Ll",
[0x001D7] = "Lu",
[0x001D8] = "Ll",
[0x001D9] = "Lu",
[0x001DA] = "Ll",
[0x001DB] = "Lu",
[0x001DE] = "Lu",
[0x001DF] = "Ll",
[0x001E0] = "Lu",
[0x001E1] = "Ll",
[0x001E2] = "Lu",
[0x001E3] = "Ll",
[0x001E4] = "Lu",
[0x001E5] = "Ll",
[0x001E6] = "Lu",
[0x001E7] = "Ll",
[0x001E8] = "Lu",
[0x001E9] = "Ll",
[0x001EA] = "Lu",
[0x001EB] = "Ll",
[0x001EC] = "Lu",
[0x001ED] = "Ll",
[0x001EE] = "Lu",
[0x001F1] = "Lu",
[0x001F2] = "Lt",
[0x001F3] = "Ll",
[0x001F4] = "Lu",
[0x001F5] = "Ll",
[0x001F9] = "Ll",
[0x001FA] = "Lu",
[0x001FB] = "Ll",
[0x001FC] = "Lu",
[0x001FD] = "Ll",
[0x001FE] = "Lu",
[0x001FF] = "Ll",
[0x00200] = "Lu",
[0x00201] = "Ll",
[0x00202] = "Lu",
[0x00203] = "Ll",
[0x00204] = "Lu",
```

## Modul: Unicode data

```
[0x00205] = "Ll",
[0x00206] = "Lu",
[0x00207] = "Ll",
[0x00208] = "Lu",
[0x00209] = "Ll",
[0x0020A] = "Lu",
[0x0020B] = "Ll",
[0x0020C] = "Lu",
[0x0020D] = "Ll",
[0x0020E] = "Lu",
[0x0020F] = "Ll",
[0x00210] = "Lu",
[0x00211] = "Ll",
[0x00212] = "Lu",
[0x00213] = "Ll",
[0x00214] = "Lu",
[0x00215] = "Ll",
[0x00216] = "Lu",
[0x00217] = "Ll",
[0x00218] = "Lu",
[0x00219] = "Ll",
[0x0021A] = "Lu",
[0x0021B] = "Ll",
[0x0021C] = "Lu",
[0x0021D] = "Ll",
[0x0021E] = "Lu",
[0x0021F] = "Ll",
[0x00220] = "Lu",
[0x00221] = "Ll",
[0x00222] = "Lu",
[0x00223] = "Ll",
[0x00224] = "Lu",
[0x00225] = "Ll",
[0x00226] = "Lu",
[0x00227] = "Ll",
[0x00228] = "Lu",
[0x00229] = "Ll",
[0x0022A] = "Lu",
[0x0022B] = "Ll",
[0x0022C] = "Lu",
[0x0022D] = "Ll",
[0x0022E] = "Lu",
[0x0022F] = "Ll",
[0x00230] = "Lu",
[0x00231] = "Ll",
[0x00232] = "Lu",
[0x0023C] = "Ll",
[0x00241] = "Lu",
[0x00242] = "Ll",
[0x00247] = "Ll",
[0x00248] = "Lu",
[0x00249] = "Ll",
[0x0024A] = "Lu",
[0x0024B] = "Ll",
[0x0024C] = "Lu",
[0x0024D] = "Ll",
[0x0024E] = "Lu",
[0x00294] = "Lo",
[0x002EC] = "Lm",
[0x002ED] = "Sk",
[0x002EE] = "Lm",
[0x00370] = "Lu",
[0x00371] = "Ll",
[0x00372] = "Lu",
```

```
[0x00373] = "Ll",
[0x00374] = "Lm",
[0x00375] = "Sk",
[0x00376] = "Lu",
[0x00377] = "Ll",
[0x0037A] = "Lm",
[0x0037E] = "Po",
[0x0037F] = "Lu",
[0x00386] = "Lu",
[0x00387] = "Po",
[0x0038C] = "Lu",
[0x00390] = "Ll",
[0x003CF] = "Lu",
[0x003D8] = "Lu",
[0x003D9] = "Ll",
[0x003DA] = "Lu",
[0x003DB] = "Ll",
[0x003DC] = "Lu",
[0x003DD] = "Ll",
[0x003DE] = "Lu",
[0x003DF] = "Ll",
[0x003E0] = "Lu",
[0x003E1] = "Ll",
[0x003E2] = "Lu",
[0x003E3] = "Ll",
[0x003E4] = "Lu",
[0x003E5] = "Ll",
[0x003E6] = "Lu",
[0x003E7] = "Ll",
[0x003E8] = "Lu",
[0x003E9] = "Ll",
[0x003EA] = "Lu",
[0x003EB] = "Ll",
[0x003EC] = "Lu",
[0x003ED] = "Ll",
[0x003EE] = "Lu",
[0x003F4] = "Lu",
[0x003F5] = "Ll",
[0x003F6] = "Sm",
[0x003F7] = "Lu",
[0x003F8] = "Ll",
[0x00460] = "Lu",
[0x00461] = "Ll",
[0x00462] = "Lu",
[0x00463] = "Ll",
[0x00464] = "Lu",
[0x00465] = "Ll",
[0x00466] = "Lu",
[0x00467] = "Ll",
[0x00468] = "Lu",
[0x00469] = "Ll",
[0x0046A] = "Lu",
[0x0046B] = "Ll",
[0x0046C] = "Lu",
[0x0046D] = "Ll",
[0x0046E] = "Lu",
[0x0046F] = "Ll",
[0x00470] = "Lu",
[0x00471] = "Ll",
[0x00472] = "Lu",
[0x00473] = "Ll",
[0x00474] = "Lu",
[0x00475] = "Ll",
[0x00476] = "Lu",
```

```
[0x00477] = "Ll",
[0x00478] = "Lu",
[0x00479] = "Ll",
[0x0047A] = "Lu",
[0x0047B] = "Ll",
[0x0047C] = "Lu",
[0x0047D] = "Ll",
[0x0047E] = "Lu",
[0x0047F] = "Ll",
[0x00480] = "Lu",
[0x00481] = "Ll",
[0x00482] = "So",
[0x0048A] = "Lu",
[0x0048B] = "Ll",
[0x0048C] = "Lu",
[0x0048D] = "Ll",
[0x0048E] = "Lu",
[0x0048F] = "Ll",
[0x00490] = "Lu",
[0x00491] = "Ll",
[0x00492] = "Lu",
[0x00493] = "Ll",
[0x00494] = "Lu",
[0x00495] = "Ll",
[0x00496] = "Lu",
[0x00497] = "Ll",
[0x00498] = "Lu",
[0x00499] = "Ll",
[0x0049A] = "Lu",
[0x0049B] = "Ll",
[0x0049C] = "Lu",
[0x0049D] = "Ll",
[0x0049E] = "Lu",
[0x0049F] = "Ll",
[0x004A0] = "Lu",
[0x004A1] = "Ll",
[0x004A2] = "Lu",
[0x004A3] = "Ll",
[0x004A4] = "Lu",
[0x004A5] = "Ll",
[0x004A6] = "Lu",
[0x004A7] = "Ll",
[0x004A8] = "Lu",
[0x004A9] = "Ll",
[0x004AA] = "Lu",
[0x004AB] = "Ll",
[0x004AC] = "Lu",
[0x004AD] = "Ll",
[0x004AE] = "Lu",
[0x004AF] = "Ll",
[0x004B0] = "Lu",
[0x004B1] = "Ll",
[0x004B2] = "Lu",
[0x004B3] = "Ll",
[0x004B4] = "Lu",
[0x004B5] = "Ll",
[0x004B6] = "Lu",
[0x004B7] = "Ll",
[0x004B8] = "Lu",
[0x004B9] = "Ll",
[0x004BA] = "Lu",
[0x004BB] = "Ll",
[0x004BC] = "Lu",
[0x004BD] = "Ll",
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```
[0x004BE] = "Lu",
[0x004BF] = "Ll",
[0x004C2] = "Ll",
[0x004C3] = "Lu",
[0x004C4] = "Ll",
[0x004C5] = "Lu",
[0x004C6] = "Ll",
[0x004C7] = "Lu",
[0x004C8] = "Ll",
[0x004C9] = "Lu",
[0x004CA] = "Ll",
[0x004CB] = "Lu",
[0x004CC] = "Ll",
[0x004CD] = "Lu",
[0x004D0] = "Lu",
[0x004D1] = "Ll",
[0x004D2] = "Lu",
[0x004D3] = "Ll",
[0x004D4] = "Lu",
[0x004D5] = "Ll",
[0x004D6] = "Lu",
[0x004D7] = "Ll",
[0x004D8] = "Lu",
[0x004D9] = "Ll",
[0x004DA] = "Lu",
[0x004DB] = "Ll",
[0x004DC] = "Lu",
[0x004DD] = "Ll",
[0x004DE] = "Lu",
[0x004DF] = "Ll",
[0x004E0] = "Lu",
[0x004E1] = "Ll",
[0x004E2] = "Lu",
[0x004E3] = "Ll",
[0x004E4] = "Lu",
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[0x004E6] = "Lu",
[0x004E7] = "Ll",
[0x004E8] = "Lu",
[0x004E9] = "Ll",
[0x004EA] = "Lu",
[0x004EB] = "Ll",
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[0x004ED] = "Ll",
[0x004EE] = "Lu",
[0x004EF] = "Ll",
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[0x004F2] = "Lu",
[0x004F3] = "Ll",
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[0x004F5] = "Ll",
[0x004F6] = "Lu",
[0x004F7] = "Ll",
[0x004F8] = "Lu",
[0x004F9] = "Ll",
[0x004FA] = "Lu",
[0x004FB] = "Ll",
[0x004FC] = "Lu",
[0x004FD] = "Ll",
[0x004FE] = "Lu",
[0x004FF] = "Ll",
[0x00500] = "Lu",
[0x00501] = "Ll",
```

```
[0x00502] = "Lu",
[0x00503] = "Ll",
[0x00504] = "Lu",
[0x00505] = "Ll",
[0x00506] = "Lu",
[0x00507] = "Ll",
[0x00508] = "Lu",
[0x00509] = "Ll",
[0x0050A] = "Lu",
[0x0050B] = "Ll",
[0x0050C] = "Lu",
[0x0050D] = "Ll",
[0x0050E] = "Lu",
[0x0050F] = "Ll",
[0x00510] = "Lu",
[0x00511] = "Ll",
[0x00512] = "Lu",
[0x00513] = "Ll",
[0x00514] = "Lu",
[0x00515] = "Ll",
[0x00516] = "Lu",
[0x00517] = "Ll",
[0x00518] = "Lu",
[0x00519] = "Ll",
[0x0051A] = "Lu",
[0x0051B] = "Ll",
[0x0051C] = "Lu",
[0x0051D] = "Ll",
[0x0051E] = "Lu",
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[0x00522] = "Lu",
[0x00523] = "Ll",
[0x00524] = "Lu",
[0x00525] = "Ll",
[0x00526] = "Lu",
[0x00527] = "Ll",
[0x00528] = "Lu",
[0x00529] = "Ll",
[0x0052A] = "Lu",
[0x0052B] = "Ll",
[0x0052C] = "Lu",
[0x0052D] = "Ll",
[0x0052E] = "Lu",
[0x0052F] = "Ll",
[0x00559] = "Lm",
[0x00589] = "Po",
[0x0058A] = "Pd",
[0x0058F] = "Sc",
[0x005BE] = "Pd",
[0x005BF] = "Mn",
[0x005C0] = "Po",
[0x005C3] = "Po",
[0x005C6] = "Po",
[0x005C7] = "Mn",
[0x0060B] = "Sc",
[0x0061B] = "Po",
[0x0061C] = "Cf",
[0x00640] = "Lm",
[0x00670] = "Mn",
[0x006D4] = "Po",
[0x006D5] = "Lo",
[0x006DD] = "Cf",
```

[0x006DE]	= "So",
[0x006E9]	= "So",
[0x006FF]	= "Lo",
[0x0070F]	= "Cf",
[0x00710]	= "Lo",
[0x00711]	= "Mn",
[0x007B1]	= "Lo",
[0x007F6]	= "So",
[0x007FA]	= "Lm",
[0x007FD]	= "Mn",
[0x0081A]	= "Lm",
[0x00824]	= "Lm",
[0x00828]	= "Lm",
[0x0085E]	= "Po",
[0x00888]	= "Sk",
[0x008C9]	= "Lm",
[0x008E2]	= "Cf",
[0x00903]	= "Mc",
[0x0093A]	= "Mn",
[0x0093B]	= "Mc",
[0x0093C]	= "Mn",
[0x0093D]	= "Lo",
[0x0094D]	= "Mn",
[0x00950]	= "Lo",
[0x00970]	= "Po",
[0x00971]	= "Lm",
[0x00981]	= "Mn",
[0x009B2]	= "Lo",
[0x009BC]	= "Mn",
[0x009BD]	= "Lo",
[0x009CD]	= "Mn",
[0x009CE]	= "Lo",
[0x009D7]	= "Mc",
[0x009FA]	= "So",
[0x009FB]	= "Sc",
[0x009FC]	= "Lo",
[0x009FD]	= "Po",
[0x009FE]	= "Mn",
[0x00A03]	= "Mc",
[0x00A3C]	= "Mn",
[0x00A51]	= "Mn",
[0x00A5E]	= "Lo",
[0x00A75]	= "Mn",
[0x00A76]	= "Po",
[0x00A83]	= "Mc",
[0x00ABC]	= "Mn",
[0x00ABD]	= "Lo",
[0x00AC9]	= "Mc",
[0x00ACD]	= "Mn",
[0x00AD0]	= "Lo",
[0x00AF0]	= "Po",
[0x00AF1]	= "Sc",
[0x00AF9]	= "Lo",
[0x00B01]	= "Mn",
[0x00B3C]	= "Mn",
[0x00B3D]	= "Lo",
[0x00B3E]	= "Mc",
[0x00B3F]	= "Mn",
[0x00B40]	= "Mc",
[0x00B4D]	= "Mn",
[0x00B57]	= "Mc",
[0x00B70]	= "So",
[0x00B71]	= "Lo",
[0x00B82]	= "Mn",

```
[0x00B83] = "Lo",
[0x00B9C] = "Lo",
[0x00BC0] = "Mn",
[0x00BCD] = "Mn",
[0x00BD0] = "Lo",
[0x00BD7] = "Mc",
[0x00BF9] = "Sc",
[0x00BFA] = "So",
[0x00C00] = "Mn",
[0x00C04] = "Mn",
[0x00C3C] = "Mn",
[0x00C3D] = "Lo",
[0x00C5D] = "Lo",
[0x00C77] = "Po",
[0x00C7F] = "So",
[0x00C80] = "Lo",
[0x00C81] = "Mn",
[0x00C84] = "Po",
[0x00CBC] = "Mn",
[0x00CBD] = "Lo",
[0x00CBE] = "Mc",
[0x00CBF] = "Mn",
[0x00CC6] = "Mn",
[0x00D3D] = "Lo",
[0x00D4D] = "Mn",
[0x00D4E] = "Lo",
[0x00D4F] = "So",
[0x00D57] = "Mc",
[0x00D79] = "So",
[0x00D81] = "Mn",
[0x00DBD] = "Lo",
[0x00DCA] = "Mn",
[0x00DD6] = "Mn",
[0x00DF4] = "Po",
[0x00E31] = "Mn",
[0x00E3F] = "Sc",
[0x00E46] = "Lm",
[0x00E4F] = "Po",
[0x00E84] = "Lo",
[0x00EA5] = "Lo",
[0x00EB1] = "Mn",
[0x00EBD] = "Lo",
[0x00EC6] = "Lm",
[0x00F00] = "Lo",
[0x00F13] = "So",
[0x00F14] = "Po",
[0x00F34] = "So",
[0x00F35] = "Mn",
[0x00F36] = "So",
[0x00F37] = "Mn",
[0x00F38] = "So",
[0x00F39] = "Mn",
[0x00F3A] = "Ps",
[0x00F3B] = "Pe",
[0x00F3C] = "Ps",
[0x00F3D] = "Pe",
[0x00F7F] = "Mc",
[0x00F85] = "Po",
[0x00FC6] = "Mn",
[0x01031] = "Mc",
[0x01038] = "Mc",
[0x0103F] = "Lo",
[0x01061] = "Lo",
[0x01082] = "Mn",
```

```
[0x0108D] = "Mn",
[0x0108E] = "Lo",
[0x0108F] = "Mc",
[0x0109D] = "Mn",
[0x010C7] = "Lu",
[0x010CD] = "Lu",
[0x010FB] = "Po",
[0x010FC] = "Lm",
[0x01258] = "Lo",
[0x012C0] = "Lo",
[0x01400] = "Pd",
[0x0166D] = "So",
[0x0166E] = "Po",
[0x01680] = "Zs",
[0x0169B] = "Ps",
[0x0169C] = "Pe",
[0x01715] = "Mc",
[0x01734] = "Mc",
[0x017B6] = "Mc",
[0x017C6] = "Mn",
[0x017D7] = "Lm",
[0x017DB] = "Sc",
[0x017DC] = "Lo",
[0x017DD] = "Mn",
[0x01806] = "Pd",
[0x0180E] = "Cf",
[0x0180F] = "Mn",
[0x01843] = "Lm",
[0x018A9] = "Mn",
[0x018AA] = "Lo",
[0x01932] = "Mn",
[0x01940] = "So",
[0x019DA] = "No",
[0x01A1B] = "Mn",
[0x01A55] = "Mc",
[0x01A56] = "Mn",
[0x01A57] = "Mc",
[0x01A60] = "Mn",
[0x01A61] = "Mc",
[0x01A62] = "Mn",
[0x01A7F] = "Mn",
[0x01AA7] = "Lm",
[0x01ABE] = "Me",
[0x01B04] = "Mc",
[0x01B34] = "Mn",
[0x01B35] = "Mc",
[0x01B3B] = "Mc",
[0x01B3C] = "Mn",
[0x01B42] = "Mn",
[0x01B82] = "Mc",
[0x01BA1] = "Mc",
[0x01BAA] = "Mc",
[0x01BE6] = "Mn",
[0x01BE7] = "Mc",
[0x01BED] = "Mn",
[0x01BEE] = "Mc",
[0x01CD3] = "Po",
[0x01CE1] = "Mc",
[0x01CED] = "Mn",
[0x01CF4] = "Mn",
[0x01CF7] = "Mc",
[0x01CFA] = "Lo",
[0x01D78] = "Lm",
[0x01E00] = "Lu",
```

```
[0x01E01] = "Ll",
[0x01E02] = "Lu",
[0x01E03] = "Ll",
[0x01E04] = "Lu",
[0x01E05] = "Ll",
[0x01E06] = "Lu",
[0x01E07] = "Ll",
[0x01E08] = "Lu",
[0x01E09] = "Ll",
[0x01E0A] = "Lu",
[0x01E0B] = "Ll",
[0x01E0C] = "Lu",
[0x01E0D] = "Ll",
[0x01E0E] = "Lu",
[0x01E0F] = "Ll",
[0x01E10] = "Lu",
[0x01E11] = "Ll",
[0x01E12] = "Lu",
[0x01E13] = "Ll",
[0x01E14] = "Lu",
[0x01E15] = "Ll",
[0x01E16] = "Lu",
[0x01E17] = "Ll",
[0x01E18] = "Lu",
[0x01E19] = "Ll",
[0x01E1A] = "Lu",
[0x01E1B] = "Ll",
[0x01E1C] = "Lu",
[0x01E1D] = "Ll",
[0x01E1E] = "Lu",
[0x01E1F] = "Ll",
[0x01E20] = "Lu",
[0x01E21] = "Ll",
[0x01E22] = "Lu",
[0x01E23] = "Ll",
[0x01E24] = "Lu",
[0x01E25] = "Ll",
[0x01E26] = "Lu",
[0x01E27] = "Ll",
[0x01E28] = "Lu",
[0x01E29] = "Ll",
[0x01E2A] = "Lu",
[0x01E2B] = "Ll",
[0x01E2C] = "Lu",
[0x01E2D] = "Ll",
[0x01E2E] = "Lu",
[0x01E2F] = "Ll",
[0x01E30] = "Lu",
[0x01E31] = "Ll",
[0x01E32] = "Lu",
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[0x01E34] = "Lu",
[0x01E35] = "Ll",
[0x01E36] = "Lu",
[0x01E37] = "Ll",
[0x01E38] = "Lu",
[0x01E39] = "Ll",
[0x01E3A] = "Lu",
[0x01E3B] = "Ll",
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[0x0A747] = "Ll",
[0x0A748] = "Lu",
[0x0A749] = "Ll",
[0x0A74A] = "Lu",
[0x0A74B] = "Ll",
[0x0A74C] = "Lu",
[0x0A74D] = "Ll",
[0x0A74E] = "Lu",
[0x0A74F] = "Ll",
[0x0A750] = "Lu",
[0x0A751] = "Ll",
[0x0A752] = "Lu",
[0x0A753] = "Ll",
[0x0A754] = "Lu",
[0x0A755] = "Ll",
[0x0A756] = "Lu",
[0x0A757] = "Ll",
[0x0A758] = "Lu",
[0x0A759] = "Ll",
[0x0A75A] = "Lu",
```

```
[0x0A75B] = "Ll",
[0x0A75C] = "Lu",
[0x0A75D] = "Ll",
[0x0A75E] = "Lu",
[0x0A75F] = "Ll",
[0x0A760] = "Lu",
[0x0A761] = "Ll",
[0x0A762] = "Lu",
[0x0A763] = "Ll",
[0x0A764] = "Lu",
[0x0A765] = "Ll",
[0x0A766] = "Lu",
[0x0A767] = "Ll",
[0x0A768] = "Lu",
[0x0A769] = "Ll",
[0x0A76A] = "Lu",
[0x0A76B] = "Ll",
[0x0A76C] = "Lu",
[0x0A76D] = "Ll",
[0x0A76E] = "Lu",
[0x0A76F] = "Ll",
[0x0A770] = "Lm",
[0x0A779] = "Lu",
[0x0A77A] = "Ll",
[0x0A77B] = "Lu",
[0x0A77C] = "Ll",
[0x0A77F] = "Ll",
[0x0A780] = "Lu",
[0x0A781] = "Ll",
[0x0A782] = "Lu",
[0x0A783] = "Ll",
[0x0A784] = "Lu",
[0x0A785] = "Ll",
[0x0A786] = "Lu",
[0x0A787] = "Ll",
[0x0A788] = "Lm",
[0x0A78B] = "Lu",
[0x0A78C] = "Ll",
[0x0A78D] = "Lu",
[0x0A78E] = "Ll",
[0x0A78F] = "Lo",
[0x0A790] = "Lu",
[0x0A791] = "Ll",
[0x0A792] = "Lu",
[0x0A796] = "Lu",
[0x0A797] = "Ll",
[0x0A798] = "Lu",
[0x0A799] = "Ll",
[0x0A79A] = "Lu",
[0x0A79B] = "Ll",
[0x0A79C] = "Lu",
[0x0A79D] = "Ll",
[0x0A79E] = "Lu",
[0x0A79F] = "Ll",
[0x0A7A0] = "Lu",
[0x0A7A1] = "Ll",
[0x0A7A2] = "Lu",
[0x0A7A3] = "Ll",
[0x0A7A4] = "Lu",
[0x0A7A5] = "Ll",
[0x0A7A6] = "Lu",
[0x0A7A7] = "Ll",
[0x0A7A8] = "Lu",
[0x0A7A9] = "Ll",
```

```
[0x0A7AF] = "Ll",
[0x0A7B5] = "Ll",
[0x0A7B6] = "Lu",
[0x0A7B7] = "Ll",
[0x0A7B8] = "Lu",
[0x0A7B9] = "Ll",
[0x0A7BA] = "Lu",
[0x0A7BB] = "Ll",
[0x0A7BC] = "Lu",
[0x0A7BD] = "Ll",
[0x0A7BE] = "Lu",
[0x0A7BF] = "Ll",
[0x0A7C0] = "Lu",
[0x0A7C1] = "Ll",
[0x0A7C2] = "Lu",
[0x0A7C3] = "Ll",
[0x0A7C8] = "Ll",
[0x0A7C9] = "Lu",
[0x0A7CA] = "Ll",
[0x0A7D0] = "Lu",
[0x0A7D1] = "Ll",
[0x0A7D3] = "Ll",
[0x0A7D5] = "Ll",
[0x0A7D6] = "Lu",
[0x0A7D7] = "Ll",
[0x0A7D8] = "Lu",
[0x0A7D9] = "Ll",
[0x0A7F5] = "Lu",
[0x0A7F6] = "Ll",
[0x0A7F7] = "Lo",
[0x0A7FA] = "Ll",
[0x0A802] = "Mn",
[0x0A806] = "Mn",
[0x0A80B] = "Mn",
[0x0A827] = "Mc",
[0x0A82C] = "Mn",
[0x0A838] = "Sc",
[0x0A839] = "So",
[0x0A8FB] = "Lo",
[0x0A8FC] = "Po",
[0x0A8FF] = "Mn",
[0x0A95F] = "Po",
[0x0A983] = "Mc",
[0x0A9B3] = "Mn",
[0x0A9CF] = "Lm",
[0x0A9E5] = "Mn",
[0x0A9E6] = "Lm",
[0x0AA43] = "Mn",
[0x0AA4C] = "Mn",
[0x0AA4D] = "Mc",
[0x0AA70] = "Lm",
[0x0AA7A] = "Lo",
[0x0AA7B] = "Mc",
[0x0AA7C] = "Mn",
[0x0AA7D] = "Mc",
[0x0AAB0] = "Mn",
[0x0AAB1] = "Lo",
[0x0AAC0] = "Lo",
[0x0AAC1] = "Mn",
[0x0AAC2] = "Lo",
[0x0AADD] = "Lm",
[0x0AAEB] = "Mc",
[0x0AAF2] = "Lo",
[0x0AAF5] = "Mc",
```

```
[0x0AAF6] = "Mn",
[0x0AB5B] = "Sk",
[0x0AB69] = "Lm",
[0x0ABE5] = "Mn",
[0x0ABE8] = "Mn",
[0x0ABEB] = "Po",
[0x0ABEC] = "Mc",
[0x0ABED] = "Mn",
[0x0FB1D] = "Lo",
[0x0FB1E] = "Mn",
[0x0FB29] = "Sm",
[0x0FB3E] = "Lo",
[0x0FD3E] = "Pe",
[0x0FD3F] = "Ps",
[0x0FDCC] = "So",
[0x0FDFF] = "Sc",
[0x0FE17] = "Ps",
[0x0FE18] = "Pe",
[0x0FE19] = "Po",
[0x0FE30] = "Po",
[0x0FE35] = "Ps",
[0x0FE36] = "Pe",
[0x0FE37] = "Ps",
[0x0FE38] = "Pe",
[0x0FE39] = "Ps",
[0x0FE3A] = "Pe",
[0x0FE3B] = "Ps",
[0x0FE3C] = "Pe",
[0x0FE3D] = "Ps",
[0x0FE3E] = "Pe",
[0x0FE3F] = "Ps",
[0x0FE40] = "Pe",
[0x0FE41] = "Ps",
[0x0FE42] = "Pe",
[0x0FE43] = "Ps",
[0x0FE44] = "Pe",
[0x0FE47] = "Ps",
[0x0FE48] = "Pe",
[0x0FE58] = "Pd",
[0x0FE59] = "Ps",
[0x0FE5A] = "Pe",
[0x0FE5B] = "Ps",
[0x0FE5C] = "Pe",
[0x0FE5D] = "Ps",
[0x0FE5E] = "Pe",
[0x0FE62] = "Sm",
[0x0FE63] = "Pd",
[0x0FE68] = "Po",
[0x0FE69] = "Sc",
[0x0FEFF] = "Cf",
[0x0FF04] = "Sc",
[0x0FF08] = "Ps",
[0x0FF09] = "Pe",
[0x0FF0A] = "Po",
[0x0FF0B] = "Sm",
[0x0FF0C] = "Po",
[0x0FF0D] = "Pd",
[0x0FF3B] = "Ps",
[0x0FF3C] = "Po",
[0x0FF3D] = "Pe",
[0x0FF3E] = "Sk",
[0x0FF3F] = "Pc",
[0x0FF40] = "Sk",
[0x0FF5B] = "Ps",
```

```
[0x0FF5C] = "Sm",
[0x0FF5D] = "Pe",
[0x0FF5E] = "Sm",
[0x0FF5F] = "Ps",
[0x0FF60] = "Pe",
[0x0FF61] = "Po",
[0x0FF62] = "Ps",
[0x0FF63] = "Pe",
[0x0FF70] = "Lm",
[0x0FFE2] = "Sm",
[0x0FFE3] = "Sk",
[0x0FFE4] = "So",
[0x0FFE8] = "So",
[0x101A0] = "So",
[0x101FD] = "Mn",
[0x102E0] = "Mn",
[0x10341] = "Nl",
[0x1034A] = "Nl",
[0x1039F] = "Po",
[0x103D0] = "Po",
[0x1056F] = "Po",
[0x10808] = "Lo",
[0x1083C] = "Lo",
[0x10857] = "Po",
[0x1091F] = "Po",
[0x1093F] = "Po",
[0x10A00] = "Lo",
[0x10A3F] = "Mn",
[0x10A7F] = "Po",
[0x10AC8] = "So",
[0x10EAD] = "Pd",
[0x10F27] = "Lo",
[0x11000] = "Mc",
[0x11001] = "Mn",
[0x11002] = "Mc",
[0x11070] = "Mn",
[0x11075] = "Lo",
[0x11082] = "Mc",
[0x110BD] = "Cf",
[0x110C2] = "Mn",
[0x110CD] = "Cf",
[0x1112C] = "Mc",
[0x11144] = "Lo",
[0x11147] = "Lo",
[0x11173] = "Mn",
[0x11176] = "Lo",
[0x11182] = "Mc",
[0x111CD] = "Po",
[0x111CE] = "Mc",
[0x111CF] = "Mn",
[0x111DA] = "Lo",
[0x111DB] = "Po",
[0x111DC] = "Lo",
[0x11234] = "Mn",
[0x11235] = "Mc",
[0x1123E] = "Mn",
[0x11288] = "Lo",
[0x112A9] = "Po",
[0x112DF] = "Mn",
[0x1133D] = "Lo",
[0x11340] = "Mn",
[0x11350] = "Lo",
[0x11357] = "Mc",
[0x11445] = "Mc",
```

```
[0x11446] = "Mn",
[0x1145D] = "Po",
[0x1145E] = "Mn",
[0x114B9] = "Mc",
[0x114BA] = "Mn",
[0x114C1] = "Mc",
[0x114C6] = "Po",
[0x114C7] = "Lo",
[0x115BE] = "Mc",
[0x1163D] = "Mn",
[0x1163E] = "Mc",
[0x11644] = "Lo",
[0x116AB] = "Mn",
[0x116AC] = "Mc",
[0x116AD] = "Mn",
[0x116B6] = "Mc",
[0x116B7] = "Mn",
[0x116B8] = "Lo",
[0x116B9] = "Po",
[0x11726] = "Mc",
[0x1173F] = "So",
[0x11838] = "Mc",
[0x1183B] = "Po",
[0x11909] = "Lo",
[0x1193D] = "Mc",
[0x1193E] = "Mn",
[0x1193F] = "Lo",
[0x11940] = "Mc",
[0x11941] = "Lo",
[0x11942] = "Mc",
[0x11943] = "Mn",
[0x119E0] = "Mn",
[0x119E1] = "Lo",
[0x119E2] = "Po",
[0x119E3] = "Lo",
[0x119E4] = "Mc",
[0x11A00] = "Lo",
[0x11A39] = "Mc",
[0x11A3A] = "Lo",
[0x11A47] = "Mn",
[0x11A50] = "Lo",
[0x11A97] = "Mc",
[0x11A9D] = "Lo",
[0x11C2F] = "Mc",
[0x11C3E] = "Mc",
[0x11C3F] = "Mn",
[0x11C40] = "Lo",
[0x11CA9] = "Mc",
[0x11CB1] = "Mc",
[0x11CB4] = "Mc",
[0x11D3A] = "Mn",
[0x11D46] = "Lo",
[0x11D47] = "Mn",
[0x11D95] = "Mn",
[0x11D96] = "Mc",
[0x11D97] = "Mn",
[0x11D98] = "Lo",
[0x11FB0] = "Lo",
[0x11FFF] = "Po",
[0x16AF5] = "Po",
[0x16B44] = "Po",
[0x16B45] = "So",
[0x16F4F] = "Mn",
[0x16F50] = "Lo",
```

```
[0x16FE2] = "Po",
[0x16FE3] = "Lm",
[0x16FE4] = "Mn",
[0x1BC9C] = "So",
[0x1BC9F] = "Po",
[0x1D245] = "So",
[0x1D49C] = "Lu",
[0x1D4A2] = "Lu",
[0x1D4BB] = "Ll",
[0x1D546] = "Lu",
[0x1D6C1] = "Sm",
[0x1D6DB] = "Sm",
[0x1D6FB] = "Sm",
[0x1D715] = "Sm",
[0x1D735] = "Sm",
[0x1D74F] = "Sm",
[0x1D76F] = "Sm",
[0x1D789] = "Sm",
[0x1D7A9] = "Sm",
[0x1D7C3] = "Sm",
[0x1D7CA] = "Lu",
[0x1D7CB] = "Ll",
[0x1DA75] = "Mn",
[0x1DA84] = "Mn",
[0x1DF0A] = "Lo",
[0x1E14E] = "Lo",
[0x1E14F] = "So",
[0x1E2AE] = "Mn",
[0x1E2FF] = "Sc",
[0x1E94B] = "Lm",
[0x1ECAC] = "So",
[0x1ECB0] = "Sc",
[0x1ED2E] = "So",
[0x1EE24] = "Lo",
[0x1EE27] = "Lo",
[0x1EE39] = "Lo",
[0x1EE3B] = "Lo",
[0x1EE42] = "Lo",
[0x1EE47] = "Lo",
[0x1EE49] = "Lo",
[0x1EE4B] = "Lo",
[0x1EE54] = "Lo",
[0x1EE57] = "Lo",
[0x1EE59] = "Lo",
[0x1EE5B] = "Lo",
[0x1EE5D] = "Lo",
[0x1EE5F] = "Lo",
[0x1EE64] = "Lo",
[0x1EE7E] = "Lo",
[0x1F7F0] = "So",
[0xE0001] = "Cf",
},
ranges = {
    { 0x000000, 0x00001F, "Cc" },
    { 0x000021, 0x000023, "Po" },
    { 0x000025, 0x000027, "Po" },
    { 0x00002E, 0x00002F, "Po" },
    { 0x000030, 0x000039, "Nd" },
    { 0x00003A, 0x00003B, "Po" },
    { 0x00003C, 0x00003E, "Sm" },
    { 0x00003F, 0x000040, "Po" },
    { 0x000041, 0x00005A, "Lu" },
    { 0x000061, 0x00007A, "Ll" },
    { 0x00007F, 0x00009F, "Cc" },
```

```
{ 0x0000A2, 0x0000A5, "Sc" },  
{ 0x0000B2, 0x0000B3, "No" },  
{ 0x0000B6, 0x0000B7, "Po" },  
{ 0x0000BC, 0x0000BE, "No" },  
{ 0x0000C0, 0x0000D6, "Lu" },  
{ 0x0000D8, 0x0000DE, "Lu" },  
{ 0x0000DF, 0x0000F6, "Ll" },  
{ 0x0000F8, 0x0000FF, "Ll" },  
{ 0x000137, 0x000138, "Ll" },  
{ 0x000148, 0x000149, "Ll" },  
{ 0x000178, 0x000179, "Lu" },  
{ 0x00017E, 0x000180, "Ll" },  
{ 0x000181, 0x000182, "Lu" },  
{ 0x000186, 0x000187, "Lu" },  
{ 0x000189, 0x00018B, "Lu" },  
{ 0x00018C, 0x00018D, "Ll" },  
{ 0x00018E, 0x000191, "Lu" },  
{ 0x000193, 0x000194, "Lu" },  
{ 0x000196, 0x000198, "Lu" },  
{ 0x000199, 0x00019B, "Ll" },  
{ 0x00019C, 0x00019D, "Lu" },  
{ 0x00019F, 0x0001A0, "Lu" },  
{ 0x0001A6, 0x0001A7, "Lu" },  
{ 0x0001AA, 0x0001AB, "Ll" },  
{ 0x0001AE, 0x0001AF, "Lu" },  
{ 0x0001B1, 0x0001B3, "Lu" },  
{ 0x0001B7, 0x0001B8, "Lu" },  
{ 0x0001B9, 0x0001BA, "Ll" },  
{ 0x0001BD, 0x0001BF, "Ll" },  
{ 0x0001C0, 0x0001C3, "Lo" },  
{ 0x0001DC, 0x0001DD, "Ll" },  
{ 0x0001EF, 0x0001F0, "Ll" },  
{ 0x0001F6, 0x0001F8, "Lu" },  
{ 0x000233, 0x000239, "Ll" },  
{ 0x00023A, 0x00023B, "Lu" },  
{ 0x00023D, 0x00023E, "Lu" },  
{ 0x00023F, 0x000240, "Ll" },  
{ 0x000243, 0x000246, "Lu" },  
{ 0x00024F, 0x000293, "Ll" },  
{ 0x000295, 0x0002AF, "Ll" },  
{ 0x0002B0, 0x0002C1, "Lm" },  
{ 0x0002C2, 0x0002C5, "Sk" },  
{ 0x0002C6, 0x0002D1, "Lm" },  
{ 0x0002D2, 0x0002DF, "Sk" },  
{ 0x0002E0, 0x0002E4, "Lm" },  
{ 0x0002E5, 0x0002EB, "Sk" },  
{ 0x0002EF, 0x0002FF, "Sk" },  
{ 0x000300, 0x00036F, "Mn" },  
{ 0x00037B, 0x00037D, "Ll" },  
{ 0x000384, 0x000385, "Sk" },  
{ 0x000388, 0x00038A, "Lu" },  
{ 0x00038E, 0x00038F, "Lu" },  
{ 0x000391, 0x0003A1, "Lu" },  
{ 0x0003A3, 0x0003AB, "Lu" },  
{ 0x0003AC, 0x0003CE, "Ll" },  
{ 0x0003D0, 0x0003D1, "Ll" },  
{ 0x0003D2, 0x0003D4, "Lu" },  
{ 0x0003D5, 0x0003D7, "Ll" },  
{ 0x0003EF, 0x0003F3, "Ll" },  
{ 0x0003F9, 0x0003FA, "Lu" },  
{ 0x0003FB, 0x0003FC, "Ll" },  
{ 0x0003FD, 0x00042F, "Lu" },  
{ 0x000430, 0x00045F, "Ll" },  
{ 0x000483, 0x000487, "Mn" },
```

```
{ 0x000488, 0x000489, "Me" },  
{ 0x0004C0, 0x0004C1, "Lu" },  
{ 0x0004CE, 0x0004CF, "Ll" },  
{ 0x000531, 0x000556, "Lu" },  
{ 0x00055A, 0x00055F, "Po" },  
{ 0x000560, 0x000588, "Ll" },  
{ 0x00058D, 0x00058E, "So" },  
{ 0x000591, 0x0005BD, "Mn" },  
{ 0x0005C1, 0x0005C2, "Mn" },  
{ 0x0005C4, 0x0005C5, "Mn" },  
{ 0x0005D0, 0x0005EA, "Lo" },  
{ 0x0005EF, 0x0005F2, "Lo" },  
{ 0x0005F3, 0x0005F4, "Po" },  
{ 0x000600, 0x000605, "Cf" },  
{ 0x000606, 0x000608, "Sm" },  
{ 0x000609, 0x00060A, "Po" },  
{ 0x00060C, 0x00060D, "Po" },  
{ 0x00060E, 0x00060F, "So" },  
{ 0x000610, 0x00061A, "Mn" },  
{ 0x00061D, 0x00061F, "Po" },  
{ 0x000620, 0x00063F, "Lo" },  
{ 0x000641, 0x00064A, "Lo" },  
{ 0x00064B, 0x00065F, "Mn" },  
{ 0x000660, 0x000669, "Nd" },  
{ 0x00066A, 0x00066D, "Po" },  
{ 0x00066E, 0x00066F, "Lo" },  
{ 0x000671, 0x0006D3, "Lo" },  
{ 0x0006D6, 0x0006DC, "Mn" },  
{ 0x0006DF, 0x0006E4, "Mn" },  
{ 0x0006E5, 0x0006E6, "Lm" },  
{ 0x0006E7, 0x0006E8, "Mn" },  
{ 0x0006EA, 0x0006ED, "Mn" },  
{ 0x0006EE, 0x0006EF, "Lo" },  
{ 0x0006F0, 0x0006F9, "Nd" },  
{ 0x0006FA, 0x0006FC, "Lo" },  
{ 0x0006FD, 0x0006FE, "So" },  
{ 0x000700, 0x00070D, "Po" },  
{ 0x000712, 0x00072F, "Lo" },  
{ 0x000730, 0x00074A, "Mn" },  
{ 0x00074D, 0x0007A5, "Lo" },  
{ 0x0007A6, 0x0007B0, "Mn" },  
{ 0x0007C0, 0x0007C9, "Nd" },  
{ 0x0007CA, 0x0007EA, "Lo" },  
{ 0x0007EB, 0x0007F3, "Mn" },  
{ 0x0007F4, 0x0007F5, "Lm" },  
{ 0x0007F7, 0x0007F9, "Po" },  
{ 0x0007FE, 0x0007FF, "Sc" },  
{ 0x000800, 0x000815, "Lo" },  
{ 0x000816, 0x000819, "Mn" },  
{ 0x00081B, 0x000823, "Mn" },  
{ 0x000825, 0x000827, "Mn" },  
{ 0x000829, 0x00082D, "Mn" },  
{ 0x000830, 0x00083E, "Po" },  
{ 0x000840, 0x000858, "Lo" },  
{ 0x000859, 0x00085B, "Mn" },  
{ 0x000860, 0x00086A, "Lo" },  
{ 0x000870, 0x000887, "Lo" },  
{ 0x000889, 0x00088E, "Lo" },  
{ 0x000890, 0x000891, "Cf" },  
{ 0x000898, 0x00089F, "Mn" },  
{ 0x0008A0, 0x0008C8, "Lo" },  
{ 0x0008CA, 0x0008E1, "Mn" },  
{ 0x0008E3, 0x000902, "Mn" },  
{ 0x000904, 0x000939, "Lo" },
```

```
{ 0x00093E, 0x000940, "Mc" },  
{ 0x000941, 0x000948, "Mn" },  
{ 0x000949, 0x00094C, "Mc" },  
{ 0x00094E, 0x00094F, "Mc" },  
{ 0x000951, 0x000957, "Mn" },  
{ 0x000958, 0x000961, "Lo" },  
{ 0x000962, 0x000963, "Mn" },  
{ 0x000964, 0x000965, "Po" },  
{ 0x000966, 0x00096F, "Nd" },  
{ 0x000972, 0x000980, "Lo" },  
{ 0x000982, 0x000983, "Mc" },  
{ 0x000985, 0x00098C, "Lo" },  
{ 0x00098F, 0x000990, "Lo" },  
{ 0x000993, 0x0009A8, "Lo" },  
{ 0x0009AA, 0x0009B0, "Lo" },  
{ 0x0009B6, 0x0009B9, "Lo" },  
{ 0x0009BE, 0x0009C0, "Mc" },  
{ 0x0009C1, 0x0009C4, "Mn" },  
{ 0x0009C7, 0x0009C8, "Mc" },  
{ 0x0009CB, 0x0009CC, "Mc" },  
{ 0x0009DC, 0x0009DD, "Lo" },  
{ 0x0009DF, 0x0009E1, "Lo" },  
{ 0x0009E2, 0x0009E3, "Mn" },  
{ 0x0009E6, 0x0009EF, "Nd" },  
{ 0x0009F0, 0x0009F1, "Lo" },  
{ 0x0009F2, 0x0009F3, "Sc" },  
{ 0x0009F4, 0x0009F9, "No" },  
{ 0x000A01, 0x000A02, "Mn" },  
{ 0x000A05, 0x000A0A, "Lo" },  
{ 0x000A0F, 0x000A10, "Lo" },  
{ 0x000A13, 0x000A28, "Lo" },  
{ 0x000A2A, 0x000A30, "Lo" },  
{ 0x000A32, 0x000A33, "Lo" },  
{ 0x000A35, 0x000A36, "Lo" },  
{ 0x000A38, 0x000A39, "Lo" },  
{ 0x000A3E, 0x000A40, "Mc" },  
{ 0x000A41, 0x000A42, "Mn" },  
{ 0x000A47, 0x000A48, "Mn" },  
{ 0x000A4B, 0x000A4D, "Mn" },  
{ 0x000A59, 0x000A5C, "Lo" },  
{ 0x000A66, 0x000A6F, "Nd" },  
{ 0x000A70, 0x000A71, "Mn" },  
{ 0x000A72, 0x000A74, "Lo" },  
{ 0x000A81, 0x000A82, "Mn" },  
{ 0x000A85, 0x000A8D, "Lo" },  
{ 0x000A8F, 0x000A91, "Lo" },  
{ 0x000A93, 0x000AA8, "Lo" },  
{ 0x000AAA, 0x000AB0, "Lo" },  
{ 0x000AB2, 0x000AB3, "Lo" },  
{ 0x000AB5, 0x000AB9, "Lo" },  
{ 0x000ABE, 0x000AC0, "Mc" },  
{ 0x000AC1, 0x000AC5, "Mn" },  
{ 0x000AC7, 0x000AC8, "Mn" },  
{ 0x000ACB, 0x000ACC, "Mc" },  
{ 0x000AE0, 0x000AE1, "Lo" },  
{ 0x000AE2, 0x000AE3, "Mn" },  
{ 0x000AE6, 0x000AEF, "Nd" },  
{ 0x000AFA, 0x000AFF, "Mn" },  
{ 0x000B02, 0x000B03, "Mc" },  
{ 0x000B05, 0x000B0C, "Lo" },  
{ 0x000B0F, 0x000B10, "Lo" },  
{ 0x000B13, 0x000B28, "Lo" },  
{ 0x000B2A, 0x000B30, "Lo" },  
{ 0x000B32, 0x000B33, "Lo" },
```

```
{ 0x000B35, 0x000B39, "Lo" },  
{ 0x000B41, 0x000B44, "Mn" },  
{ 0x000B47, 0x000B48, "Mc" },  
{ 0x000B4B, 0x000B4C, "Mc" },  
{ 0x000B55, 0x000B56, "Mn" },  
{ 0x000B5C, 0x000B5D, "Lo" },  
{ 0x000B5F, 0x000B61, "Lo" },  
{ 0x000B62, 0x000B63, "Mn" },  
{ 0x000B66, 0x000B6F, "Nd" },  
{ 0x000B72, 0x000B77, "No" },  
{ 0x000B85, 0x000B8A, "Lo" },  
{ 0x000B8E, 0x000B90, "Lo" },  
{ 0x000B92, 0x000B95, "Lo" },  
{ 0x000B99, 0x000B9A, "Lo" },  
{ 0x000B9E, 0x000B9F, "Lo" },  
{ 0x000BA3, 0x000BA4, "Lo" },  
{ 0x000BA8, 0x000BAA, "Lo" },  
{ 0x000BAE, 0x000BB9, "Lo" },  
{ 0x000BBE, 0x000BBF, "Mc" },  
{ 0x000BC1, 0x000BC2, "Mc" },  
{ 0x000BC6, 0x000BC8, "Mc" },  
{ 0x000BCA, 0x000BCC, "Mc" },  
{ 0x000BE6, 0x000BEF, "Nd" },  
{ 0x000BF0, 0x000BF2, "No" },  
{ 0x000BF3, 0x000BF8, "So" },  
{ 0x000C01, 0x000C03, "Mc" },  
{ 0x000C05, 0x000C0C, "Lo" },  
{ 0x000C0E, 0x000C10, "Lo" },  
{ 0x000C12, 0x000C28, "Lo" },  
{ 0x000C2A, 0x000C39, "Lo" },  
{ 0x000C3E, 0x000C40, "Mn" },  
{ 0x000C41, 0x000C44, "Mc" },  
{ 0x000C46, 0x000C48, "Mn" },  
{ 0x000C4A, 0x000C4D, "Mn" },  
{ 0x000C55, 0x000C56, "Mn" },  
{ 0x000C58, 0x000C5A, "Lo" },  
{ 0x000C60, 0x000C61, "Lo" },  
{ 0x000C62, 0x000C63, "Mn" },  
{ 0x000C66, 0x000C6F, "Nd" },  
{ 0x000C78, 0x000C7E, "No" },  
{ 0x000C82, 0x000C83, "Mc" },  
{ 0x000C85, 0x000C8C, "Lo" },  
{ 0x000C8E, 0x000C90, "Lo" },  
{ 0x000C92, 0x000CA8, "Lo" },  
{ 0x000CAA, 0x000CB3, "Lo" },  
{ 0x000CB5, 0x000CB9, "Lo" },  
{ 0x000CC0, 0x000CC4, "Mc" },  
{ 0x000CC7, 0x000CC8, "Mc" },  
{ 0x000CCA, 0x000CCB, "Mc" },  
{ 0x000CCC, 0x000CCD, "Mn" },  
{ 0x000CD5, 0x000CD6, "Mc" },  
{ 0x000CDD, 0x000CDE, "Lo" },  
{ 0x000CE0, 0x000CE1, "Lo" },  
{ 0x000CE2, 0x000CE3, "Mn" },  
{ 0x000CE6, 0x000CEF, "Nd" },  
{ 0x000CF1, 0x000CF2, "Lo" },  
{ 0x000D00, 0x000D01, "Mn" },  
{ 0x000D02, 0x000D03, "Mc" },  
{ 0x000D04, 0x000D0C, "Lo" },  
{ 0x000D0E, 0x000D10, "Lo" },  
{ 0x000D12, 0x000D3A, "Lo" },  
{ 0x000D3B, 0x000D3C, "Mn" },  
{ 0x000D3E, 0x000D40, "Mc" },  
{ 0x000D41, 0x000D44, "Mn" },
```

```
{ 0x000D46, 0x000D48, "Mc" },  
{ 0x000D4A, 0x000D4C, "Mc" },  
{ 0x000D54, 0x000D56, "Lo" },  
{ 0x000D58, 0x000D5E, "No" },  
{ 0x000D5F, 0x000D61, "Lo" },  
{ 0x000D62, 0x000D63, "Mn" },  
{ 0x000D66, 0x000D6F, "Nd" },  
{ 0x000D70, 0x000D78, "No" },  
{ 0x000D7A, 0x000D7F, "Lo" },  
{ 0x000D82, 0x000D83, "Mc" },  
{ 0x000D85, 0x000D96, "Lo" },  
{ 0x000D9A, 0x000DB1, "Lo" },  
{ 0x000DB3, 0x000DBB, "Lo" },  
{ 0x000DC0, 0x000DC6, "Lo" },  
{ 0x000DCF, 0x000DD1, "Mc" },  
{ 0x000DD2, 0x000DD4, "Mn" },  
{ 0x000DD8, 0x000DDF, "Mc" },  
{ 0x000DE6, 0x000DEF, "Nd" },  
{ 0x000DF2, 0x000DF3, "Mc" },  
{ 0x000E01, 0x000E30, "Lo" },  
{ 0x000E32, 0x000E33, "Lo" },  
{ 0x000E34, 0x000E3A, "Mn" },  
{ 0x000E40, 0x000E45, "Lo" },  
{ 0x000E47, 0x000E4E, "Mn" },  
{ 0x000E50, 0x000E59, "Nd" },  
{ 0x000E5A, 0x000E5B, "Po" },  
{ 0x000E81, 0x000E82, "Lo" },  
{ 0x000E86, 0x000E8A, "Lo" },  
{ 0x000E8C, 0x000EA3, "Lo" },  
{ 0x000EA7, 0x000EB0, "Lo" },  
{ 0x000EB2, 0x000EB3, "Lo" },  
{ 0x000EB4, 0x000EBC, "Mn" },  
{ 0x000EC0, 0x000EC4, "Lo" },  
{ 0x000EC8, 0x000ECD, "Mn" },  
{ 0x000ED0, 0x000ED9, "Nd" },  
{ 0x000EDC, 0x000EDF, "Lo" },  
{ 0x000F01, 0x000F03, "So" },  
{ 0x000F04, 0x000F12, "Po" },  
{ 0x000F15, 0x000F17, "So" },  
{ 0x000F18, 0x000F19, "Mn" },  
{ 0x000F1A, 0x000F1F, "So" },  
{ 0x000F20, 0x000F29, "Nd" },  
{ 0x000F2A, 0x000F33, "No" },  
{ 0x000F3E, 0x000F3F, "Mc" },  
{ 0x000F40, 0x000F47, "Lo" },  
{ 0x000F49, 0x000F6C, "Lo" },  
{ 0x000F71, 0x000F7E, "Mn" },  
{ 0x000F80, 0x000F84, "Mn" },  
{ 0x000F86, 0x000F87, "Mn" },  
{ 0x000F88, 0x000F8C, "Lo" },  
{ 0x000F8D, 0x000F97, "Mn" },  
{ 0x000F99, 0x000FBC, "Mn" },  
{ 0x000FBE, 0x000FC5, "So" },  
{ 0x000FC7, 0x000FCC, "So" },  
{ 0x000FCE, 0x000FCF, "So" },  
{ 0x000FD0, 0x000FD4, "Po" },  
{ 0x000FD5, 0x000FD8, "So" },  
{ 0x000FD9, 0x000FDA, "Po" },  
{ 0x001000, 0x00102A, "Lo" },  
{ 0x00102B, 0x00102C, "Mc" },  
{ 0x00102D, 0x001030, "Mn" },  
{ 0x001032, 0x001037, "Mn" },  
{ 0x001039, 0x00103A, "Mn" },  
{ 0x00103B, 0x00103C, "Mc" },
```

```
{ 0x00103D, 0x00103E, "Mn" },  
{ 0x001040, 0x001049, "Nd" },  
{ 0x00104A, 0x00104F, "Po" },  
{ 0x001050, 0x001055, "Lo" },  
{ 0x001056, 0x001057, "Mc" },  
{ 0x001058, 0x001059, "Mn" },  
{ 0x00105A, 0x00105D, "Lo" },  
{ 0x00105E, 0x001060, "Mn" },  
{ 0x001062, 0x001064, "Mc" },  
{ 0x001065, 0x001066, "Lo" },  
{ 0x001067, 0x00106D, "Mc" },  
{ 0x00106E, 0x001070, "Lo" },  
{ 0x001071, 0x001074, "Mn" },  
{ 0x001075, 0x001081, "Lo" },  
{ 0x001083, 0x001084, "Mc" },  
{ 0x001085, 0x001086, "Mn" },  
{ 0x001087, 0x00108C, "Mc" },  
{ 0x001090, 0x001099, "Nd" },  
{ 0x00109A, 0x00109C, "Mc" },  
{ 0x00109E, 0x00109F, "So" },  
{ 0x0010A0, 0x0010C5, "Lu" },  
{ 0x0010D0, 0x0010FA, "Ll" },  
{ 0x0010FD, 0x0010FF, "Ll" },  
{ 0x001100, 0x001248, "Lo" },  
{ 0x00124A, 0x00124D, "Lo" },  
{ 0x001250, 0x001256, "Lo" },  
{ 0x00125A, 0x00125D, "Lo" },  
{ 0x001260, 0x001288, "Lo" },  
{ 0x00128A, 0x00128D, "Lo" },  
{ 0x001290, 0x0012B0, "Lo" },  
{ 0x0012B2, 0x0012B5, "Lo" },  
{ 0x0012B8, 0x0012BE, "Lo" },  
{ 0x0012C2, 0x0012C5, "Lo" },  
{ 0x0012C8, 0x0012D6, "Lo" },  
{ 0x0012D8, 0x001310, "Lo" },  
{ 0x001312, 0x001315, "Lo" },  
{ 0x001318, 0x00135A, "Lo" },  
{ 0x00135D, 0x00135F, "Mn" },  
{ 0x001360, 0x001368, "Po" },  
{ 0x001369, 0x00137C, "No" },  
{ 0x001380, 0x00138F, "Lo" },  
{ 0x001390, 0x001399, "So" },  
{ 0x0013A0, 0x0013F5, "Lu" },  
{ 0x0013F8, 0x0013FD, "Ll" },  
{ 0x001401, 0x00166C, "Lo" },  
{ 0x00166F, 0x00167F, "Lo" },  
{ 0x001681, 0x00169A, "Lo" },  
{ 0x0016A0, 0x0016EA, "Lo" },  
{ 0x0016EB, 0x0016ED, "Po" },  
{ 0x0016EE, 0x0016F0, "Nl" },  
{ 0x0016F1, 0x0016F8, "Lo" },  
{ 0x001700, 0x001711, "Lo" },  
{ 0x001712, 0x001714, "Mn" },  
{ 0x00171F, 0x001731, "Lo" },  
{ 0x001732, 0x001733, "Mn" },  
{ 0x001735, 0x001736, "Po" },  
{ 0x001740, 0x001751, "Lo" },  
{ 0x001752, 0x001753, "Mn" },  
{ 0x001760, 0x00176C, "Lo" },  
{ 0x00176E, 0x001770, "Lo" },  
{ 0x001772, 0x001773, "Mn" },  
{ 0x001780, 0x0017B3, "Lo" },  
{ 0x0017B4, 0x0017B5, "Mn" },  
{ 0x0017B7, 0x0017BD, "Mn" },
```

```
{ 0x0017BE, 0x0017C5, "Mc" },  
{ 0x0017C7, 0x0017C8, "Mc" },  
{ 0x0017C9, 0x0017D3, "Mn" },  
{ 0x0017D4, 0x0017D6, "Po" },  
{ 0x0017D8, 0x0017DA, "Po" },  
{ 0x0017E0, 0x0017E9, "Nd" },  
{ 0x0017F0, 0x0017F9, "No" },  
{ 0x001800, 0x001805, "Po" },  
{ 0x001807, 0x00180A, "Po" },  
{ 0x00180B, 0x00180D, "Mn" },  
{ 0x001810, 0x001819, "Nd" },  
{ 0x001820, 0x001842, "Lo" },  
{ 0x001844, 0x001878, "Lo" },  
{ 0x001880, 0x001884, "Lo" },  
{ 0x001885, 0x001886, "Mn" },  
{ 0x001887, 0x0018A8, "Lo" },  
{ 0x0018B0, 0x0018F5, "Lo" },  
{ 0x001900, 0x00191E, "Lo" },  
{ 0x001920, 0x001922, "Mn" },  
{ 0x001923, 0x001926, "Mc" },  
{ 0x001927, 0x001928, "Mn" },  
{ 0x001929, 0x00192B, "Mc" },  
{ 0x001930, 0x001931, "Mc" },  
{ 0x001933, 0x001938, "Mc" },  
{ 0x001939, 0x00193B, "Mn" },  
{ 0x001944, 0x001945, "Po" },  
{ 0x001946, 0x00194F, "Nd" },  
{ 0x001950, 0x00196D, "Lo" },  
{ 0x001970, 0x001974, "Lo" },  
{ 0x001980, 0x0019AB, "Lo" },  
{ 0x0019B0, 0x0019C9, "Lo" },  
{ 0x0019D0, 0x0019D9, "Nd" },  
{ 0x0019DE, 0x0019FF, "So" },  
{ 0x001A00, 0x001A16, "Lo" },  
{ 0x001A17, 0x001A18, "Mn" },  
{ 0x001A19, 0x001A1A, "Mc" },  
{ 0x001A1E, 0x001A1F, "Po" },  
{ 0x001A20, 0x001A54, "Lo" },  
{ 0x001A58, 0x001A5E, "Mn" },  
{ 0x001A63, 0x001A64, "Mc" },  
{ 0x001A65, 0x001A6C, "Mn" },  
{ 0x001A6D, 0x001A72, "Mc" },  
{ 0x001A73, 0x001A7C, "Mn" },  
{ 0x001A80, 0x001A89, "Nd" },  
{ 0x001A90, 0x001A99, "Nd" },  
{ 0x001AA0, 0x001AA6, "Po" },  
{ 0x001AA8, 0x001AAD, "Po" },  
{ 0x001AB0, 0x001ABD, "Mn" },  
{ 0x001ABF, 0x001ACE, "Mn" },  
{ 0x001B00, 0x001B03, "Mn" },  
{ 0x001B05, 0x001B33, "Lo" },  
{ 0x001B36, 0x001B3A, "Mn" },  
{ 0x001B3D, 0x001B41, "Mc" },  
{ 0x001B43, 0x001B44, "Mc" },  
{ 0x001B45, 0x001B4C, "Lo" },  
{ 0x001B50, 0x001B59, "Nd" },  
{ 0x001B5A, 0x001B60, "Po" },  
{ 0x001B61, 0x001B6A, "So" },  
{ 0x001B6B, 0x001B73, "Mn" },  
{ 0x001B74, 0x001B7C, "So" },  
{ 0x001B7D, 0x001B7E, "Po" },  
{ 0x001B80, 0x001B81, "Mn" },  
{ 0x001B83, 0x001BA0, "Lo" },  
{ 0x001BA2, 0x001BA5, "Mn" },
```

```
{ 0x001BA6, 0x001BA7, "Mc" },  
{ 0x001BA8, 0x001BA9, "Mn" },  
{ 0x001BAB, 0x001BAD, "Mn" },  
{ 0x001BAE, 0x001BAF, "Lo" },  
{ 0x001BB0, 0x001BB9, "Nd" },  
{ 0x001BBA, 0x001BE5, "Lo" },  
{ 0x001BE8, 0x001BE9, "Mn" },  
{ 0x001BEA, 0x001BEC, "Mc" },  
{ 0x001BEF, 0x001BF1, "Mn" },  
{ 0x001BF2, 0x001BF3, "Mc" },  
{ 0x001BFC, 0x001BFF, "Po" },  
{ 0x001C00, 0x001C23, "Lo" },  
{ 0x001C24, 0x001C2B, "Mc" },  
{ 0x001C2C, 0x001C33, "Mn" },  
{ 0x001C34, 0x001C35, "Mc" },  
{ 0x001C36, 0x001C37, "Mn" },  
{ 0x001C3B, 0x001C3F, "Po" },  
{ 0x001C40, 0x001C49, "Nd" },  
{ 0x001C4D, 0x001C4F, "Lo" },  
{ 0x001C50, 0x001C59, "Nd" },  
{ 0x001C5A, 0x001C77, "Lo" },  
{ 0x001C78, 0x001C7D, "Lm" },  
{ 0x001C7E, 0x001C7F, "Po" },  
{ 0x001C80, 0x001C88, "Ll" },  
{ 0x001C90, 0x001CBA, "Lu" },  
{ 0x001CBD, 0x001CBF, "Lu" },  
{ 0x001CC0, 0x001CC7, "Po" },  
{ 0x001CD0, 0x001CD2, "Mn" },  
{ 0x001CD4, 0x001CE0, "Mn" },  
{ 0x001CE2, 0x001CE8, "Mn" },  
{ 0x001CE9, 0x001CEC, "Lo" },  
{ 0x001CEE, 0x001CF3, "Lo" },  
{ 0x001CF5, 0x001CF6, "Lo" },  
{ 0x001CF8, 0x001CF9, "Mn" },  
{ 0x001D00, 0x001D2B, "Ll" },  
{ 0x001D2C, 0x001D6A, "Lm" },  
{ 0x001D6B, 0x001D77, "Ll" },  
{ 0x001D79, 0x001D9A, "Ll" },  
{ 0x001D9B, 0x001DBF, "Lm" },  
{ 0x001DC0, 0x001DFF, "Mn" },  
{ 0x001E95, 0x001E9D, "Ll" },  
{ 0x001EFF, 0x001F07, "Ll" },  
{ 0x001F08, 0x001F0F, "Lu" },  
{ 0x001F10, 0x001F15, "Ll" },  
{ 0x001F18, 0x001F1D, "Lu" },  
{ 0x001F20, 0x001F27, "Ll" },  
{ 0x001F28, 0x001F2F, "Lu" },  
{ 0x001F30, 0x001F37, "Ll" },  
{ 0x001F38, 0x001F3F, "Lu" },  
{ 0x001F40, 0x001F45, "Ll" },  
{ 0x001F48, 0x001F4D, "Lu" },  
{ 0x001F50, 0x001F57, "Ll" },  
{ 0x001F60, 0x001F67, "Ll" },  
{ 0x001F68, 0x001F6F, "Lu" },  
{ 0x001F70, 0x001F7D, "Ll" },  
{ 0x001F80, 0x001F87, "Ll" },  
{ 0x001F88, 0x001F8F, "Lt" },  
{ 0x001F90, 0x001F97, "Ll" },  
{ 0x001F98, 0x001F9F, "Lt" },  
{ 0x001FA0, 0x001FA7, "Ll" },  
{ 0x001FA8, 0x001FAF, "Lt" },  
{ 0x001FB0, 0x001FB4, "Ll" },  
{ 0x001FB6, 0x001FB7, "Ll" },  
{ 0x001FB8, 0x001FBB, "Lu" },
```

```
{ 0x001FBF, 0x001FC1, "Sk" },  
{ 0x001FC2, 0x001FC4, "Ll" },  
{ 0x001FC6, 0x001FC7, "Ll" },  
{ 0x001FC8, 0x001FCB, "Lu" },  
{ 0x001FCD, 0x001FCF, "Sk" },  
{ 0x001FD0, 0x001FD3, "Ll" },  
{ 0x001FD6, 0x001FD7, "Ll" },  
{ 0x001FD8, 0x001FDB, "Lu" },  
{ 0x001FDD, 0x001FDF, "Sk" },  
{ 0x001FE0, 0x001FE7, "Ll" },  
{ 0x001FE8, 0x001FEC, "Lu" },  
{ 0x001FED, 0x001FEF, "Sk" },  
{ 0x001FF2, 0x001FF4, "Ll" },  
{ 0x001FF6, 0x001FF7, "Ll" },  
{ 0x001FF8, 0x001FFB, "Lu" },  
{ 0x001FFD, 0x001FFE, "Sk" },  
{ 0x002000, 0x00200A, "Zs" },  
{ 0x00200B, 0x00200F, "Cf" },  
{ 0x002010, 0x002015, "Pd" },  
{ 0x002016, 0x002017, "Po" },  
{ 0x00201B, 0x00201C, "Pi" },  
{ 0x002020, 0x002027, "Po" },  
{ 0x00202A, 0x00202E, "Cf" },  
{ 0x002030, 0x002038, "Po" },  
{ 0x00203B, 0x00203E, "Po" },  
{ 0x00203F, 0x002040, "Pc" },  
{ 0x002041, 0x002043, "Po" },  
{ 0x002047, 0x002051, "Po" },  
{ 0x002055, 0x00205E, "Po" },  
{ 0x002060, 0x002064, "Cf" },  
{ 0x002066, 0x00206F, "Cf" },  
{ 0x002074, 0x002079, "No" },  
{ 0x00207A, 0x00207C, "Sm" },  
{ 0x002080, 0x002089, "No" },  
{ 0x00208A, 0x00208C, "Sm" },  
{ 0x002090, 0x00209C, "Lm" },  
{ 0x0020A0, 0x0020C0, "Sc" },  
{ 0x0020D0, 0x0020DC, "Mn" },  
{ 0x0020DD, 0x0020E0, "Me" },  
{ 0x0020E2, 0x0020E4, "Me" },  
{ 0x0020E5, 0x0020F0, "Mn" },  
{ 0x002100, 0x002101, "So" },  
{ 0x002103, 0x002106, "So" },  
{ 0x002108, 0x002109, "So" },  
{ 0x00210B, 0x00210D, "Lu" },  
{ 0x00210E, 0x00210F, "Ll" },  
{ 0x002110, 0x002112, "Lu" },  
{ 0x002116, 0x002117, "So" },  
{ 0x002119, 0x00211D, "Lu" },  
{ 0x00211E, 0x002123, "So" },  
{ 0x00212A, 0x00212D, "Lu" },  
{ 0x002130, 0x002133, "Lu" },  
{ 0x002135, 0x002138, "Lo" },  
{ 0x00213A, 0x00213B, "So" },  
{ 0x00213C, 0x00213D, "Ll" },  
{ 0x00213E, 0x00213F, "Lu" },  
{ 0x002140, 0x002144, "Sm" },  
{ 0x002146, 0x002149, "Ll" },  
{ 0x00214C, 0x00214D, "So" },  
{ 0x002150, 0x00215F, "No" },  
{ 0x002160, 0x002182, "Nl" },  
{ 0x002185, 0x002188, "Nl" },  
{ 0x00218A, 0x00218B, "So" },  
{ 0x002190, 0x002194, "Sm" },
```

```
{ 0x002195, 0x002199, "So" },  
{ 0x00219A, 0x00219B, "Sm" },  
{ 0x00219C, 0x00219F, "So" },  
{ 0x0021A1, 0x0021A2, "So" },  
{ 0x0021A4, 0x0021A5, "So" },  
{ 0x0021A7, 0x0021AD, "So" },  
{ 0x0021AF, 0x0021CD, "So" },  
{ 0x0021CE, 0x0021CF, "Sm" },  
{ 0x0021D0, 0x0021D1, "So" },  
{ 0x0021D5, 0x0021F3, "So" },  
{ 0x0021F4, 0x0022FF, "Sm" },  
{ 0x002300, 0x002307, "So" },  
{ 0x00230C, 0x00231F, "So" },  
{ 0x002320, 0x002321, "Sm" },  
{ 0x002322, 0x002328, "So" },  
{ 0x00232B, 0x00237B, "So" },  
{ 0x00237D, 0x00239A, "So" },  
{ 0x00239B, 0x0023B3, "Sm" },  
{ 0x0023B4, 0x0023DB, "So" },  
{ 0x0023DC, 0x0023E1, "Sm" },  
{ 0x0023E2, 0x002426, "So" },  
{ 0x002440, 0x00244A, "So" },  
{ 0x002460, 0x00249B, "No" },  
{ 0x00249C, 0x0024E9, "So" },  
{ 0x0024EA, 0x0024FF, "No" },  
{ 0x002500, 0x0025B6, "So" },  
{ 0x0025B8, 0x0025C0, "So" },  
{ 0x0025C2, 0x0025F7, "So" },  
{ 0x0025F8, 0x0025FF, "Sm" },  
{ 0x002600, 0x00266E, "So" },  
{ 0x002670, 0x002767, "So" },  
{ 0x002776, 0x002793, "No" },  
{ 0x002794, 0x0027BF, "So" },  
{ 0x0027C0, 0x0027C4, "Sm" },  
{ 0x0027C7, 0x0027E5, "Sm" },  
{ 0x0027F0, 0x0027FF, "Sm" },  
{ 0x002800, 0x0028FF, "So" },  
{ 0x002900, 0x002982, "Sm" },  
{ 0x002999, 0x0029D7, "Sm" },  
{ 0x0029DC, 0x0029FB, "Sm" },  
{ 0x0029FE, 0x002AFF, "Sm" },  
{ 0x002B00, 0x002B2F, "So" },  
{ 0x002B30, 0x002B44, "Sm" },  
{ 0x002B45, 0x002B46, "So" },  
{ 0x002B47, 0x002B4C, "Sm" },  
{ 0x002B4D, 0x002B73, "So" },  
{ 0x002B76, 0x002B95, "So" },  
{ 0x002B97, 0x002BFF, "So" },  
{ 0x002C00, 0x002C2F, "Lu" },  
{ 0x002C30, 0x002C5F, "Ll" },  
{ 0x002C62, 0x002C64, "Lu" },  
{ 0x002C65, 0x002C66, "Ll" },  
{ 0x002C6D, 0x002C70, "Lu" },  
{ 0x002C73, 0x002C74, "Ll" },  
{ 0x002C76, 0x002C7B, "Ll" },  
{ 0x002C7C, 0x002C7D, "Lm" },  
{ 0x002C7E, 0x002C80, "Lu" },  
{ 0x002CE3, 0x002CE4, "Ll" },  
{ 0x002CE5, 0x002CEA, "So" },  
{ 0x002CEF, 0x002CF1, "Mn" },  
{ 0x002CF9, 0x002CFc, "Po" },  
{ 0x002CFE, 0x002CFF, "Po" },  
{ 0x002D00, 0x002D25, "Ll" },  
{ 0x002D30, 0x002D67, "Lo" },
```

```
{ 0x002D80, 0x002D96, "Lo" },  
{ 0x002DA0, 0x002DA6, "Lo" },  
{ 0x002DA8, 0x002DAE, "Lo" },  
{ 0x002DB0, 0x002DB6, "Lo" },  
{ 0x002DB8, 0x002DBE, "Lo" },  
{ 0x002DC0, 0x002DC6, "Lo" },  
{ 0x002DC8, 0x002DCE, "Lo" },  
{ 0x002DD0, 0x002DD6, "Lo" },  
{ 0x002DD8, 0x002DDE, "Lo" },  
{ 0x002DE0, 0x002DFF, "Mn" },  
{ 0x002E00, 0x002E01, "Po" },  
{ 0x002E06, 0x002E08, "Po" },  
{ 0x002E0E, 0x002E16, "Po" },  
{ 0x002E18, 0x002E19, "Po" },  
{ 0x002E1E, 0x002E1F, "Po" },  
{ 0x002E2A, 0x002E2E, "Po" },  
{ 0x002E30, 0x002E39, "Po" },  
{ 0x002E3A, 0x002E3B, "Pd" },  
{ 0x002E3C, 0x002E3F, "Po" },  
{ 0x002E43, 0x002E4F, "Po" },  
{ 0x002E50, 0x002E51, "So" },  
{ 0x002E52, 0x002E54, "Po" },  
{ 0x002E80, 0x002E99, "So" },  
{ 0x002E9B, 0x002EF3, "So" },  
{ 0x002F00, 0x002FD5, "So" },  
{ 0x002FF0, 0x002FFB, "So" },  
{ 0x003001, 0x003003, "Po" },  
{ 0x003012, 0x003013, "So" },  
{ 0x00301E, 0x00301F, "Pe" },  
{ 0x003021, 0x003029, "Nl" },  
{ 0x00302A, 0x00302D, "Mn" },  
{ 0x00302E, 0x00302F, "Mc" },  
{ 0x003031, 0x003035, "Lm" },  
{ 0x003036, 0x003037, "So" },  
{ 0x003038, 0x00303A, "Nl" },  
{ 0x00303E, 0x00303F, "So" },  
{ 0x003041, 0x003096, "Lo" },  
{ 0x003099, 0x00309A, "Mn" },  
{ 0x00309B, 0x00309C, "Sk" },  
{ 0x00309D, 0x00309E, "Lm" },  
{ 0x0030A1, 0x0030FA, "Lo" },  
{ 0x0030FC, 0x0030FE, "Lm" },  
{ 0x003105, 0x00312F, "Lo" },  
{ 0x003131, 0x00318E, "Lo" },  
{ 0x003190, 0x003191, "So" },  
{ 0x003192, 0x003195, "No" },  
{ 0x003196, 0x00319F, "So" },  
{ 0x0031A0, 0x0031BF, "Lo" },  
{ 0x0031C0, 0x0031E3, "So" },  
{ 0x0031F0, 0x0031FF, "Lo" },  
{ 0x003200, 0x00321E, "So" },  
{ 0x003220, 0x003229, "No" },  
{ 0x00322A, 0x003247, "So" },  
{ 0x003248, 0x00324F, "No" },  
{ 0x003251, 0x00325F, "No" },  
{ 0x003260, 0x00327F, "So" },  
{ 0x003280, 0x003289, "No" },  
{ 0x00328A, 0x0032B0, "So" },  
{ 0x0032B1, 0x0032BF, "No" },  
{ 0x0032C0, 0x0033FF, "So" },  
{ 0x003400, 0x004DBF, "Lo" },  
{ 0x004DC0, 0x004DFF, "So" },  
{ 0x004E00, 0x00A014, "Lo" },  
{ 0x00A016, 0x00A48C, "Lo" },
```

```
{ 0x00A490, 0x00A4C6, "So" },  
{ 0x00A4D0, 0x00A4F7, "Lo" },  
{ 0x00A4F8, 0x00A4FD, "Lm" },  
{ 0x00A4FE, 0x00A4FF, "Po" },  
{ 0x00A500, 0x00A60B, "Lo" },  
{ 0x00A60D, 0x00A60F, "Po" },  
{ 0x00A610, 0x00A61F, "Lo" },  
{ 0x00A620, 0x00A629, "Nd" },  
{ 0x00A62A, 0x00A62B, "Lo" },  
{ 0x00A670, 0x00A672, "Me" },  
{ 0x00A674, 0x00A67D, "Mn" },  
{ 0x00A69C, 0x00A69D, "Lm" },  
{ 0x00A69E, 0x00A69F, "Mn" },  
{ 0x00A6A0, 0x00A6E5, "Lo" },  
{ 0x00A6E6, 0x00A6EF, "Nl" },  
{ 0x00A6F0, 0x00A6F1, "Mn" },  
{ 0x00A6F2, 0x00A6F7, "Po" },  
{ 0x00A700, 0x00A716, "Sk" },  
{ 0x00A717, 0x00A71F, "Lm" },  
{ 0x00A720, 0x00A721, "Sk" },  
{ 0x00A72F, 0x00A731, "Ll" },  
{ 0x00A771, 0x00A778, "Ll" },  
{ 0x00A77D, 0x00A77E, "Lu" },  
{ 0x00A789, 0x00A78A, "Sk" },  
{ 0x00A793, 0x00A795, "Ll" },  
{ 0x00A7AA, 0x00A7AE, "Lu" },  
{ 0x00A7B0, 0x00A7B4, "Lu" },  
{ 0x00A7C4, 0x00A7C7, "Lu" },  
{ 0x00A7F2, 0x00A7F4, "Lm" },  
{ 0x00A7F8, 0x00A7F9, "Lm" },  
{ 0x00A7FB, 0x00A801, "Lo" },  
{ 0x00A803, 0x00A805, "Lo" },  
{ 0x00A807, 0x00A80A, "Lo" },  
{ 0x00A80C, 0x00A822, "Lo" },  
{ 0x00A823, 0x00A824, "Mc" },  
{ 0x00A825, 0x00A826, "Mn" },  
{ 0x00A828, 0x00A82B, "So" },  
{ 0x00A830, 0x00A835, "No" },  
{ 0x00A836, 0x00A837, "So" },  
{ 0x00A840, 0x00A873, "Lo" },  
{ 0x00A874, 0x00A877, "Po" },  
{ 0x00A880, 0x00A881, "Mc" },  
{ 0x00A882, 0x00A8B3, "Lo" },  
{ 0x00A8B4, 0x00A8C3, "Mc" },  
{ 0x00A8C4, 0x00A8C5, "Mn" },  
{ 0x00A8CE, 0x00A8CF, "Po" },  
{ 0x00A8D0, 0x00A8D9, "Nd" },  
{ 0x00A8E0, 0x00A8F1, "Mn" },  
{ 0x00A8F2, 0x00A8F7, "Lo" },  
{ 0x00A8F8, 0x00A8FA, "Po" },  
{ 0x00A8FD, 0x00A8FE, "Lo" },  
{ 0x00A900, 0x00A909, "Nd" },  
{ 0x00A90A, 0x00A925, "Lo" },  
{ 0x00A926, 0x00A92D, "Mn" },  
{ 0x00A92E, 0x00A92F, "Po" },  
{ 0x00A930, 0x00A946, "Lo" },  
{ 0x00A947, 0x00A951, "Mn" },  
{ 0x00A952, 0x00A953, "Mc" },  
{ 0x00A960, 0x00A97C, "Lo" },  
{ 0x00A980, 0x00A982, "Mn" },  
{ 0x00A984, 0x00A9B2, "Lo" },  
{ 0x00A9B4, 0x00A9B5, "Mc" },  
{ 0x00A9B6, 0x00A9B9, "Mn" },  
{ 0x00A9BA, 0x00A9BB, "Mc" },
```

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{ 0x00A9BC, 0x00A9BD, "Mn" },  
{ 0x00A9BE, 0x00A9C0, "Mc" },  
{ 0x00A9C1, 0x00A9CD, "Po" },  
{ 0x00A9D0, 0x00A9D9, "Nd" },  
{ 0x00A9DE, 0x00A9DF, "Po" },  
{ 0x00A9E0, 0x00A9E4, "Lo" },  
{ 0x00A9E7, 0x00A9EF, "Lo" },  
{ 0x00A9F0, 0x00A9F9, "Nd" },  
{ 0x00A9FA, 0x00A9FE, "Lo" },  
{ 0x00AA00, 0x00AA28, "Lo" },  
{ 0x00AA29, 0x00AA2E, "Mn" },  
{ 0x00AA2F, 0x00AA30, "Mc" },  
{ 0x00AA31, 0x00AA32, "Mn" },  
{ 0x00AA33, 0x00AA34, "Mc" },  
{ 0x00AA35, 0x00AA36, "Mn" },  
{ 0x00AA40, 0x00AA42, "Lo" },  
{ 0x00AA44, 0x00AA4B, "Lo" },  
{ 0x00AA50, 0x00AA59, "Nd" },  
{ 0x00AA5C, 0x00AA5F, "Po" },  
{ 0x00AA60, 0x00AA6F, "Lo" },  
{ 0x00AA71, 0x00AA76, "Lo" },  
{ 0x00AA77, 0x00AA79, "So" },  
{ 0x00AA7E, 0x00AAAF, "Lo" },  
{ 0x00AAB2, 0x00AAB4, "Mn" },  
{ 0x00AAB5, 0x00AAB6, "Lo" },  
{ 0x00AAB7, 0x00AAB8, "Mn" },  
{ 0x00AAB9, 0x00AABD, "Lo" },  
{ 0x00AA8E, 0x00AA8F, "Mn" },  
{ 0x00AA8F, 0x00AA9C, "Lo" },  
{ 0x00AA9D, 0x00AA9E, "Po" },  
{ 0x00AA9E, 0x00AA9F, "Mn" },  
{ 0x00AAEC, 0x00AAED, "Mn" },  
{ 0x00AAEE, 0x00AAEF, "Mc" },  
{ 0x00AAF0, 0x00AAF1, "Po" },  
{ 0x00AAF3, 0x00AAF4, "Lm" },  
{ 0x00AB01, 0x00AB06, "Lo" },  
{ 0x00AB09, 0x00AB0E, "Lo" },  
{ 0x00AB11, 0x00AB16, "Lo" },  
{ 0x00AB20, 0x00AB26, "Lo" },  
{ 0x00AB28, 0x00AB2E, "Lo" },  
{ 0x00AB30, 0x00AB5A, "Ll" },  
{ 0x00AB5C, 0x00AB5F, "Lm" },  
{ 0x00AB60, 0x00AB68, "Ll" },  
{ 0x00AB6A, 0x00AB6B, "Sk" },  
{ 0x00AB70, 0x00ABB7, "Ll" },  
{ 0x00ABC0, 0x00ABE2, "Lo" },  
{ 0x00ABE3, 0x00ABE4, "Mc" },  
{ 0x00ABE6, 0x00ABE7, "Mc" },  
{ 0x00ABE9, 0x00ABEA, "Mc" },  
{ 0x00ABF0, 0x00ABF9, "Nd" },  
{ 0x00AC00, 0x00D7A3, "Lo" },  
{ 0x00D7B0, 0x00D7C6, "Lo" },  
{ 0x00D7CB, 0x00D7FB, "Lo" },  
{ 0x00D800, 0x00DFFF, "Cs" },  
{ 0x00E000, 0x00F8FF, "Co" },  
{ 0x00F900, 0x00FA6D, "Lo" },  
{ 0x00FA70, 0x00FAD9, "Lo" },  
{ 0x00FB00, 0x00FB06, "Ll" },  
{ 0x00FB13, 0x00FB17, "Ll" },  
{ 0x00FB1F, 0x00FB28, "Lo" },  
{ 0x00FB2A, 0x00FB36, "Lo" },  
{ 0x00FB38, 0x00FB3C, "Lo" },  
{ 0x00FB40, 0x00FB41, "Lo" },  
{ 0x00FB43, 0x00FB44, "Lo" },
```

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{ 0x00FB46, 0x00FBB1, "Lo" },  
{ 0x00FBB2, 0x00FBC2, "Sk" },  
{ 0x00FBD3, 0x00FD3D, "Lo" },  
{ 0x00FD40, 0x00FD4F, "So" },  
{ 0x00FD50, 0x00FD8F, "Lo" },  
{ 0x00FD92, 0x00FDC7, "Lo" },  
{ 0x00FDF0, 0x00FDFB, "Lo" },  
{ 0x00FDFD, 0x00FDFF, "So" },  
{ 0x00FE00, 0x00FE0F, "Mn" },  
{ 0x00FE10, 0x00FE16, "Po" },  
{ 0x00FE20, 0x00FE2F, "Mn" },  
{ 0x00FE31, 0x00FE32, "Pd" },  
{ 0x00FE33, 0x00FE34, "Pc" },  
{ 0x00FE45, 0x00FE46, "Po" },  
{ 0x00FE49, 0x00FE4C, "Po" },  
{ 0x00FE4D, 0x00FE4F, "Pc" },  
{ 0x00FE50, 0x00FE52, "Po" },  
{ 0x00FE54, 0x00FE57, "Po" },  
{ 0x00FE5F, 0x00FE61, "Po" },  
{ 0x00FE64, 0x00FE66, "Sm" },  
{ 0x00FE6A, 0x00FE6B, "Po" },  
{ 0x00FE70, 0x00FE74, "Lo" },  
{ 0x00FE76, 0x00FEFC, "Lo" },  
{ 0x00FF01, 0x00FF03, "Po" },  
{ 0x00FF05, 0x00FF07, "Po" },  
{ 0x00FF0E, 0x00FF0F, "Po" },  
{ 0x00FF10, 0x00FF19, "Nd" },  
{ 0x00FF1A, 0x00FF1B, "Po" },  
{ 0x00FF1C, 0x00FF1E, "Sm" },  
{ 0x00FF1F, 0x00FF20, "Po" },  
{ 0x00FF21, 0x00FF3A, "Lu" },  
{ 0x00FF41, 0x00FF5A, "Ll" },  
{ 0x00FF64, 0x00FF65, "Po" },  
{ 0x00FF66, 0x00FF6F, "Lo" },  
{ 0x00FF71, 0x00FF9D, "Lo" },  
{ 0x00FF9E, 0x00FF9F, "Lm" },  
{ 0x00FFA0, 0x00FFBE, "Lo" },  
{ 0x00FFC2, 0x00FFC7, "Lo" },  
{ 0x00FFCA, 0x00FFCF, "Lo" },  
{ 0x00FFD2, 0x00FFD7, "Lo" },  
{ 0x00FFDA, 0x00FFDC, "Lo" },  
{ 0x00FFE0, 0x00FFE1, "Sc" },  
{ 0x00FFE5, 0x00FFE6, "Sc" },  
{ 0x00FFE9, 0x00FFEC, "Sm" },  
{ 0x00FFED, 0x00FFEE, "So" },  
{ 0x00FFF9, 0x00FFF9B, "Cf" },  
{ 0x00FFFC, 0x00FFFD, "So" },  
{ 0x010000, 0x01000B, "Lo" },  
{ 0x01000D, 0x010026, "Lo" },  
{ 0x010028, 0x01003A, "Lo" },  
{ 0x01003C, 0x01003D, "Lo" },  
{ 0x01003F, 0x01004D, "Lo" },  
{ 0x010050, 0x01005D, "Lo" },  
{ 0x010080, 0x0100FA, "Lo" },  
{ 0x010100, 0x010102, "Po" },  
{ 0x010107, 0x010133, "No" },  
{ 0x010137, 0x01013F, "So" },  
{ 0x010140, 0x010174, "Nl" },  
{ 0x010175, 0x010178, "No" },  
{ 0x010179, 0x010189, "So" },  
{ 0x01018A, 0x01018B, "No" },  
{ 0x01018C, 0x01018E, "So" },  
{ 0x010190, 0x01019C, "So" },  
{ 0x0101D0, 0x0101FC, "So" },
```

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{ 0x010280, 0x01029C, "Lo" },  
{ 0x0102A0, 0x0102D0, "Lo" },  
{ 0x0102E1, 0x0102FB, "No" },  
{ 0x010300, 0x01031F, "Lo" },  
{ 0x010320, 0x010323, "No" },  
{ 0x01032D, 0x010340, "Lo" },  
{ 0x010342, 0x010349, "Lo" },  
{ 0x010350, 0x010375, "Lo" },  
{ 0x010376, 0x01037A, "Mn" },  
{ 0x010380, 0x01039D, "Lo" },  
{ 0x0103A0, 0x0103C3, "Lo" },  
{ 0x0103C8, 0x0103CF, "Lo" },  
{ 0x0103D1, 0x0103D5, "Nl" },  
{ 0x010400, 0x010427, "Lu" },  
{ 0x010428, 0x01044F, "Ll" },  
{ 0x010450, 0x01049D, "Lo" },  
{ 0x0104A0, 0x0104A9, "Nd" },  
{ 0x0104B0, 0x0104D3, "Lu" },  
{ 0x0104D8, 0x0104FB, "Ll" },  
{ 0x010500, 0x010527, "Lo" },  
{ 0x010530, 0x010563, "Lo" },  
{ 0x010570, 0x01057A, "Lu" },  
{ 0x01057C, 0x01058A, "Lu" },  
{ 0x01058C, 0x010592, "Lu" },  
{ 0x010594, 0x010595, "Lu" },  
{ 0x010597, 0x0105A1, "Ll" },  
{ 0x0105A3, 0x0105B1, "Ll" },  
{ 0x0105B3, 0x0105B9, "Ll" },  
{ 0x0105BB, 0x0105BC, "Ll" },  
{ 0x010600, 0x010736, "Lo" },  
{ 0x010740, 0x010755, "Lo" },  
{ 0x010760, 0x010767, "Lo" },  
{ 0x010780, 0x010785, "Lm" },  
{ 0x010787, 0x0107B0, "Lm" },  
{ 0x0107B2, 0x0107BA, "Lm" },  
{ 0x010800, 0x010805, "Lo" },  
{ 0x01080A, 0x010835, "Lo" },  
{ 0x010837, 0x010838, "Lo" },  
{ 0x01083F, 0x010855, "Lo" },  
{ 0x010858, 0x01085F, "No" },  
{ 0x010860, 0x010876, "Lo" },  
{ 0x010877, 0x010878, "So" },  
{ 0x010879, 0x01087F, "No" },  
{ 0x010880, 0x01089E, "Lo" },  
{ 0x0108A7, 0x0108AF, "No" },  
{ 0x0108E0, 0x0108F2, "Lo" },  
{ 0x0108F4, 0x0108F5, "Lo" },  
{ 0x0108FB, 0x0108FF, "No" },  
{ 0x010900, 0x010915, "Lo" },  
{ 0x010916, 0x01091B, "No" },  
{ 0x010920, 0x010939, "Lo" },  
{ 0x010980, 0x0109B7, "Lo" },  
{ 0x0109BC, 0x0109BD, "No" },  
{ 0x0109BE, 0x0109BF, "Lo" },  
{ 0x0109C0, 0x0109CF, "No" },  
{ 0x0109D2, 0x0109FF, "No" },  
{ 0x010A01, 0x010A03, "Mn" },  
{ 0x010A05, 0x010A06, "Mn" },  
{ 0x010A0C, 0x010A0F, "Mn" },  
{ 0x010A10, 0x010A13, "Lo" },  
{ 0x010A15, 0x010A17, "Lo" },  
{ 0x010A19, 0x010A35, "Lo" },  
{ 0x010A38, 0x010A3A, "Mn" },  
{ 0x010A40, 0x010A48, "No" },
```

```
{ 0x010A50, 0x010A58, "Po" },  
{ 0x010A60, 0x010A7C, "Lo" },  
{ 0x010A7D, 0x010A7E, "No" },  
{ 0x010A80, 0x010A9C, "Lo" },  
{ 0x010A9D, 0x010A9F, "No" },  
{ 0x010AC0, 0x010AC7, "Lo" },  
{ 0x010AC9, 0x010AE4, "Lo" },  
{ 0x010AE5, 0x010AE6, "Mn" },  
{ 0x010AEB, 0x010AEF, "No" },  
{ 0x010AF0, 0x010AF6, "Po" },  
{ 0x010B00, 0x010B35, "Lo" },  
{ 0x010B39, 0x010B3F, "Po" },  
{ 0x010B40, 0x010B55, "Lo" },  
{ 0x010B58, 0x010B5F, "No" },  
{ 0x010B60, 0x010B72, "Lo" },  
{ 0x010B78, 0x010B7F, "No" },  
{ 0x010B80, 0x010B91, "Lo" },  
{ 0x010B99, 0x010B9C, "Po" },  
{ 0x010BA9, 0x010BAF, "No" },  
{ 0x010C00, 0x010C48, "Lo" },  
{ 0x010C80, 0x010CB2, "Lu" },  
{ 0x010CC0, 0x010CF2, "Ll" },  
{ 0x010CFA, 0x010cff, "No" },  
{ 0x010D00, 0x010D23, "Lo" },  
{ 0x010D24, 0x010D27, "Mn" },  
{ 0x010D30, 0x010D39, "Nd" },  
{ 0x010E60, 0x010E7E, "No" },  
{ 0x010E80, 0x010EA9, "Lo" },  
{ 0x010EAB, 0x010EAC, "Mn" },  
{ 0x010EB0, 0x010EB1, "Lo" },  
{ 0x010F00, 0x010F1C, "Lo" },  
{ 0x010F1D, 0x010F26, "No" },  
{ 0x010F30, 0x010F45, "Lo" },  
{ 0x010F46, 0x010F50, "Mn" },  
{ 0x010F51, 0x010F54, "No" },  
{ 0x010F55, 0x010F59, "Po" },  
{ 0x010F70, 0x010F81, "Lo" },  
{ 0x010F82, 0x010F85, "Mn" },  
{ 0x010F86, 0x010F89, "Po" },  
{ 0x010FB0, 0x010FC4, "Lo" },  
{ 0x010FC5, 0x010FCB, "No" },  
{ 0x010FE0, 0x010FF6, "Lo" },  
{ 0x011003, 0x011037, "Lo" },  
{ 0x011038, 0x011046, "Mn" },  
{ 0x011047, 0x01104D, "Po" },  
{ 0x011052, 0x011065, "No" },  
{ 0x011066, 0x01106F, "Nd" },  
{ 0x011071, 0x011072, "Lo" },  
{ 0x011073, 0x011074, "Mn" },  
{ 0x01107F, 0x011081, "Mn" },  
{ 0x011083, 0x0110AF, "Lo" },  
{ 0x0110B0, 0x0110B2, "Mc" },  
{ 0x0110B3, 0x0110B6, "Mn" },  
{ 0x0110B7, 0x0110B8, "Mc" },  
{ 0x0110B9, 0x0110BA, "Mn" },  
{ 0x0110BB, 0x0110BC, "Po" },  
{ 0x0110BE, 0x0110C1, "Po" },  
{ 0x0110D0, 0x0110E8, "Lo" },  
{ 0x0110F0, 0x0110F9, "Nd" },  
{ 0x011100, 0x011102, "Mn" },  
{ 0x011103, 0x011126, "Lo" },  
{ 0x011127, 0x01112B, "Mn" },  
{ 0x01112D, 0x011134, "Mn" },  
{ 0x011136, 0x01113F, "Nd" },
```

```
{ 0x011140, 0x011143, "Po" },  
{ 0x011145, 0x011146, "Mc" },  
{ 0x011150, 0x011172, "Lo" },  
{ 0x011174, 0x011175, "Po" },  
{ 0x011180, 0x011181, "Mn" },  
{ 0x011183, 0x0111B2, "Lo" },  
{ 0x0111B3, 0x0111B5, "Mc" },  
{ 0x0111B6, 0x0111BE, "Mn" },  
{ 0x0111BF, 0x0111C0, "Mc" },  
{ 0x0111C1, 0x0111C4, "Lo" },  
{ 0x0111C5, 0x0111C8, "Po" },  
{ 0x0111C9, 0x0111CC, "Mn" },  
{ 0x0111D0, 0x0111D9, "Nd" },  
{ 0x0111DD, 0x0111DF, "Po" },  
{ 0x0111E1, 0x0111F4, "No" },  
{ 0x011200, 0x011211, "Lo" },  
{ 0x011213, 0x01122B, "Lo" },  
{ 0x01122C, 0x01122E, "Mc" },  
{ 0x01122F, 0x011231, "Mn" },  
{ 0x011232, 0x011233, "Mc" },  
{ 0x011236, 0x011237, "Mn" },  
{ 0x011238, 0x01123D, "Po" },  
{ 0x011280, 0x011286, "Lo" },  
{ 0x01128A, 0x01128D, "Lo" },  
{ 0x01128F, 0x01129D, "Lo" },  
{ 0x01129F, 0x0112A8, "Lo" },  
{ 0x0112B0, 0x0112DE, "Lo" },  
{ 0x0112E0, 0x0112E2, "Mc" },  
{ 0x0112E3, 0x0112EA, "Mn" },  
{ 0x0112F0, 0x0112F9, "Nd" },  
{ 0x011300, 0x011301, "Mn" },  
{ 0x011302, 0x011303, "Mc" },  
{ 0x011305, 0x01130C, "Lo" },  
{ 0x01130F, 0x011310, "Lo" },  
{ 0x011313, 0x011328, "Lo" },  
{ 0x01132A, 0x011330, "Lo" },  
{ 0x011332, 0x011333, "Lo" },  
{ 0x011335, 0x011339, "Lo" },  
{ 0x01133B, 0x01133C, "Mn" },  
{ 0x01133E, 0x01133F, "Mc" },  
{ 0x011341, 0x011344, "Mc" },  
{ 0x011347, 0x011348, "Mc" },  
{ 0x01134B, 0x01134D, "Mc" },  
{ 0x01135D, 0x011361, "Lo" },  
{ 0x011362, 0x011363, "Mc" },  
{ 0x011366, 0x01136C, "Mn" },  
{ 0x011370, 0x011374, "Mn" },  
{ 0x011400, 0x011434, "Lo" },  
{ 0x011435, 0x011437, "Mc" },  
{ 0x011438, 0x01143F, "Mn" },  
{ 0x011440, 0x011441, "Mc" },  
{ 0x011442, 0x011444, "Mn" },  
{ 0x011447, 0x01144A, "Lo" },  
{ 0x01144B, 0x01144F, "Po" },  
{ 0x011450, 0x011459, "Nd" },  
{ 0x01145A, 0x01145B, "Po" },  
{ 0x01145F, 0x011461, "Lo" },  
{ 0x011480, 0x0114AF, "Lo" },  
{ 0x0114B0, 0x0114B2, "Mc" },  
{ 0x0114B3, 0x0114B8, "Mn" },  
{ 0x0114BB, 0x0114BE, "Mc" },  
{ 0x0114BF, 0x0114C0, "Mn" },  
{ 0x0114C2, 0x0114C3, "Mn" },  
{ 0x0114C4, 0x0114C5, "Lo" },
```

```
{ 0x0114D0, 0x0114D9, "Nd" },
{ 0x011580, 0x0115AE, "Lo" },
{ 0x0115AF, 0x0115B1, "Mc" },
{ 0x0115B2, 0x0115B5, "Mn" },
{ 0x0115B8, 0x0115BB, "Mc" },
{ 0x0115BC, 0x0115BD, "Mn" },
{ 0x0115BF, 0x0115C0, "Mn" },
{ 0x0115C1, 0x0115D7, "Po" },
{ 0x0115D8, 0x0115DB, "Lo" },
{ 0x0115DC, 0x0115DD, "Mn" },
{ 0x011600, 0x01162F, "Lo" },
{ 0x011630, 0x011632, "Mc" },
{ 0x011633, 0x01163A, "Mn" },
{ 0x01163B, 0x01163C, "Mc" },
{ 0x01163F, 0x011640, "Mn" },
{ 0x011641, 0x011643, "Po" },
{ 0x011650, 0x011659, "Nd" },
{ 0x011660, 0x01166C, "Po" },
{ 0x011680, 0x0116AA, "Lo" },
{ 0x0116AE, 0x0116AF, "Mc" },
{ 0x0116B0, 0x0116B5, "Mn" },
{ 0x0116C0, 0x0116C9, "Nd" },
{ 0x011700, 0x01171A, "Lo" },
{ 0x01171D, 0x01171F, "Mn" },
{ 0x011720, 0x011721, "Mc" },
{ 0x011722, 0x011725, "Mn" },
{ 0x011727, 0x01172B, "Mn" },
{ 0x011730, 0x011739, "Nd" },
{ 0x01173A, 0x01173B, "No" },
{ 0x01173C, 0x01173E, "Po" },
{ 0x011740, 0x011746, "Lo" },
{ 0x011800, 0x01182B, "Lo" },
{ 0x01182C, 0x01182E, "Mc" },
{ 0x01182F, 0x011837, "Mn" },
{ 0x011839, 0x01183A, "Mn" },
{ 0x0118A0, 0x0118BF, "Lu" },
{ 0x0118C0, 0x0118DF, "Ll" },
{ 0x0118E0, 0x0118E9, "Nd" },
{ 0x0118EA, 0x0118F2, "No" },
{ 0x0118FF, 0x011906, "Lo" },
{ 0x01190C, 0x011913, "Lo" },
{ 0x011915, 0x011916, "Lo" },
{ 0x011918, 0x01192F, "Lo" },
{ 0x011930, 0x011935, "Mc" },
{ 0x011937, 0x011938, "Mc" },
{ 0x01193B, 0x01193C, "Mn" },
{ 0x011944, 0x011946, "Po" },
{ 0x011950, 0x011959, "Nd" },
{ 0x0119A0, 0x0119A7, "Lo" },
{ 0x0119AA, 0x0119D0, "Lo" },
{ 0x0119D1, 0x0119D3, "Mc" },
{ 0x0119D4, 0x0119D7, "Mn" },
{ 0x0119DA, 0x0119DB, "Mn" },
{ 0x0119DC, 0x0119DF, "Mc" },
{ 0x011A01, 0x011A0A, "Mn" },
{ 0x011A0B, 0x011A32, "Lo" },
{ 0x011A33, 0x011A38, "Mn" },
{ 0x011A3B, 0x011A3E, "Mn" },
{ 0x011A3F, 0x011A46, "Po" },
{ 0x011A51, 0x011A56, "Mn" },
{ 0x011A57, 0x011A58, "Mc" },
{ 0x011A59, 0x011A5B, "Mn" },
{ 0x011A5C, 0x011A89, "Lo" },
{ 0x011A8A, 0x011A96, "Mn" },
```

```
{ 0x011A98, 0x011A99, "Mn" },  
{ 0x011A9A, 0x011A9C, "Po" },  
{ 0x011A9E, 0x011AA2, "Po" },  
{ 0x011AB0, 0x011AF8, "Lo" },  
{ 0x011C00, 0x011C08, "Lo" },  
{ 0x011C0A, 0x011C2E, "Lo" },  
{ 0x011C30, 0x011C36, "Mn" },  
{ 0x011C38, 0x011C3D, "Mn" },  
{ 0x011C41, 0x011C45, "Po" },  
{ 0x011C50, 0x011C59, "Nd" },  
{ 0x011C5A, 0x011C6C, "No" },  
{ 0x011C70, 0x011C71, "Po" },  
{ 0x011C72, 0x011C8F, "Lo" },  
{ 0x011C92, 0x011CA7, "Mn" },  
{ 0x011CAA, 0x011CB0, "Mn" },  
{ 0x011CB2, 0x011CB3, "Mn" },  
{ 0x011CB5, 0x011CB6, "Mn" },  
{ 0x011D00, 0x011D06, "Lo" },  
{ 0x011D08, 0x011D09, "Lo" },  
{ 0x011D0B, 0x011D30, "Lo" },  
{ 0x011D31, 0x011D36, "Mn" },  
{ 0x011D3C, 0x011D3D, "Mn" },  
{ 0x011D3F, 0x011D45, "Mn" },  
{ 0x011D50, 0x011D59, "Nd" },  
{ 0x011D60, 0x011D65, "Lo" },  
{ 0x011D67, 0x011D68, "Lo" },  
{ 0x011D6A, 0x011D89, "Lo" },  
{ 0x011D8A, 0x011D8E, "Mc" },  
{ 0x011D90, 0x011D91, "Mn" },  
{ 0x011D93, 0x011D94, "Mc" },  
{ 0x011DA0, 0x011DA9, "Nd" },  
{ 0x011EE0, 0x011EF2, "Lo" },  
{ 0x011EF3, 0x011EF4, "Mn" },  
{ 0x011EF5, 0x011EF6, "Mc" },  
{ 0x011EF7, 0x011EF8, "Po" },  
{ 0x011FC0, 0x011FD4, "No" },  
{ 0x011FD5, 0x011FDC, "So" },  
{ 0x011FDD, 0x011FE0, "Sc" },  
{ 0x011FE1, 0x011FF1, "So" },  
{ 0x012000, 0x012399, "Lo" },  
{ 0x012400, 0x01246E, "Nl" },  
{ 0x012470, 0x012474, "Po" },  
{ 0x012480, 0x012543, "Lo" },  
{ 0x012F90, 0x012FF0, "Lo" },  
{ 0x012FF1, 0x012FF2, "Po" },  
{ 0x013000, 0x01342E, "Lo" },  
{ 0x013430, 0x013438, "Cf" },  
{ 0x014400, 0x014646, "Lo" },  
{ 0x016800, 0x016A38, "Lo" },  
{ 0x016A40, 0x016A5E, "Lo" },  
{ 0x016A60, 0x016A69, "Nd" },  
{ 0x016A6E, 0x016A6F, "Po" },  
{ 0x016A70, 0x016ABE, "Lo" },  
{ 0x016AC0, 0x016AC9, "Nd" },  
{ 0x016AD0, 0x016AED, "Lo" },  
{ 0x016AF0, 0x016AF4, "Mn" },  
{ 0x016B00, 0x016B2F, "Lo" },  
{ 0x016B30, 0x016B36, "Mn" },  
{ 0x016B37, 0x016B3B, "Po" },  
{ 0x016B3C, 0x016B3F, "So" },  
{ 0x016B40, 0x016B43, "Lm" },  
{ 0x016B50, 0x016B59, "Nd" },  
{ 0x016B5B, 0x016B61, "No" },  
{ 0x016B63, 0x016B77, "Lo" },
```

```
{ 0x016B7D, 0x016B8F, "Lo" },  
{ 0x016E40, 0x016E5F, "Lu" },  
{ 0x016E60, 0x016E7F, "Ll" },  
{ 0x016E80, 0x016E96, "No" },  
{ 0x016E97, 0x016E9A, "Po" },  
{ 0x016F00, 0x016F4A, "Lo" },  
{ 0x016F51, 0x016F87, "Mc" },  
{ 0x016F8F, 0x016F92, "Mn" },  
{ 0x016F93, 0x016F9F, "Lm" },  
{ 0x016FE0, 0x016FE1, "Lm" },  
{ 0x016FF0, 0x016FF1, "Mc" },  
{ 0x017000, 0x0187F7, "Lo" },  
{ 0x018800, 0x018CD5, "Lo" },  
{ 0x018D00, 0x018D08, "Lo" },  
{ 0x01AFF0, 0x01AFF3, "Lm" },  
{ 0x01AFF5, 0x01AFFB, "Lm" },  
{ 0x01AFFD, 0x01AFFE, "Lm" },  
{ 0x01B000, 0x01B122, "Lo" },  
{ 0x01B150, 0x01B152, "Lo" },  
{ 0x01B164, 0x01B167, "Lo" },  
{ 0x01B170, 0x01B2FB, "Lo" },  
{ 0x01BC00, 0x01BC6A, "Lo" },  
{ 0x01BC70, 0x01BC7C, "Lo" },  
{ 0x01BC80, 0x01BC88, "Lo" },  
{ 0x01BC90, 0x01BC99, "Lo" },  
{ 0x01BC9D, 0x01BC9E, "Mn" },  
{ 0x01BCA0, 0x01BCA3, "Cf" },  
{ 0x01CF00, 0x01CF2D, "Mn" },  
{ 0x01CF30, 0x01CF46, "Mn" },  
{ 0x01CF50, 0x01CFC3, "So" },  
{ 0x01D000, 0x01D0F5, "So" },  
{ 0x01D100, 0x01D126, "So" },  
{ 0x01D129, 0x01D164, "So" },  
{ 0x01D165, 0x01D166, "Mc" },  
{ 0x01D167, 0x01D169, "Mn" },  
{ 0x01D16A, 0x01D16C, "So" },  
{ 0x01D16D, 0x01D172, "Mc" },  
{ 0x01D173, 0x01D17A, "Cf" },  
{ 0x01D17B, 0x01D182, "Mn" },  
{ 0x01D183, 0x01D184, "So" },  
{ 0x01D185, 0x01D18B, "Mn" },  
{ 0x01D18C, 0x01D1A9, "So" },  
{ 0x01D1AA, 0x01D1AD, "Mn" },  
{ 0x01D1AE, 0x01D1EA, "So" },  
{ 0x01D200, 0x01D241, "So" },  
{ 0x01D242, 0x01D244, "Mn" },  
{ 0x01D2E0, 0x01D2F3, "No" },  
{ 0x01D300, 0x01D356, "So" },  
{ 0x01D360, 0x01D378, "No" },  
{ 0x01D400, 0x01D419, "Lu" },  
{ 0x01D41A, 0x01D433, "Ll" },  
{ 0x01D434, 0x01D44D, "Lu" },  
{ 0x01D44E, 0x01D454, "Ll" },  
{ 0x01D456, 0x01D467, "Ll" },  
{ 0x01D468, 0x01D481, "Lu" },  
{ 0x01D482, 0x01D49B, "Ll" },  
{ 0x01D49E, 0x01D49F, "Lu" },  
{ 0x01D4A5, 0x01D4A6, "Lu" },  
{ 0x01D4A9, 0x01D4AC, "Lu" },  
{ 0x01D4AE, 0x01D4B5, "Lu" },  
{ 0x01D4B6, 0x01D4B9, "Ll" },  
{ 0x01D4BD, 0x01D4C3, "Ll" },  
{ 0x01D4C5, 0x01D4CF, "Ll" },  
{ 0x01D4D0, 0x01D4E9, "Lu" },
```

```
{ 0x01D4EA, 0x01D503, "Ll" },
{ 0x01D504, 0x01D505, "Lu" },
{ 0x01D507, 0x01D50A, "Lu" },
{ 0x01D50D, 0x01D514, "Lu" },
{ 0x01D516, 0x01D51C, "Lu" },
{ 0x01D51E, 0x01D537, "Ll" },
{ 0x01D538, 0x01D539, "Lu" },
{ 0x01D53B, 0x01D53E, "Lu" },
{ 0x01D540, 0x01D544, "Lu" },
{ 0x01D54A, 0x01D550, "Lu" },
{ 0x01D552, 0x01D56B, "Ll" },
{ 0x01D56C, 0x01D585, "Lu" },
{ 0x01D586, 0x01D59F, "Ll" },
{ 0x01D5A0, 0x01D5B9, "Lu" },
{ 0x01D5BA, 0x01D5D3, "Ll" },
{ 0x01D5D4, 0x01D5ED, "Lu" },
{ 0x01D5EE, 0x01D607, "Ll" },
{ 0x01D608, 0x01D621, "Lu" },
{ 0x01D622, 0x01D63B, "Ll" },
{ 0x01D63C, 0x01D655, "Lu" },
{ 0x01D656, 0x01D66F, "Ll" },
{ 0x01D670, 0x01D689, "Lu" },
{ 0x01D68A, 0x01D6A5, "Ll" },
{ 0x01D6A8, 0x01D6C0, "Lu" },
{ 0x01D6C2, 0x01D6DA, "Ll" },
{ 0x01D6DC, 0x01D6E1, "Ll" },
{ 0x01D6E2, 0x01D6FA, "Lu" },
{ 0x01D6FC, 0x01D714, "Ll" },
{ 0x01D716, 0x01D71B, "Ll" },
{ 0x01D71C, 0x01D734, "Lu" },
{ 0x01D736, 0x01D74E, "Ll" },
{ 0x01D750, 0x01D755, "Ll" },
{ 0x01D756, 0x01D76E, "Lu" },
{ 0x01D770, 0x01D788, "Ll" },
{ 0x01D78A, 0x01D78F, "Ll" },
{ 0x01D790, 0x01D7A8, "Lu" },
{ 0x01D7AA, 0x01D7C2, "Ll" },
{ 0x01D7C4, 0x01D7C9, "Ll" },
{ 0x01D7CE, 0x01D7FF, "Nd" },
{ 0x01D800, 0x01D9FF, "So" },
{ 0x01DA00, 0x01DA36, "Mn" },
{ 0x01DA37, 0x01DA3A, "So" },
{ 0x01DA3B, 0x01DA6C, "Mn" },
{ 0x01DA6D, 0x01DA74, "So" },
{ 0x01DA76, 0x01DA83, "So" },
{ 0x01DA85, 0x01DA86, "So" },
{ 0x01DA87, 0x01DA8B, "Po" },
{ 0x01DA9B, 0x01DA9F, "Mn" },
{ 0x01DAA1, 0x01DAAF, "Mn" },
{ 0x01DF00, 0x01DF09, "Ll" },
{ 0x01DF0B, 0x01DF1E, "Ll" },
{ 0x01E000, 0x01E006, "Mn" },
{ 0x01E008, 0x01E018, "Mn" },
{ 0x01E01B, 0x01E021, "Mn" },
{ 0x01E023, 0x01E024, "Mn" },
{ 0x01E026, 0x01E02A, "Mn" },
{ 0x01E100, 0x01E12C, "Lo" },
{ 0x01E130, 0x01E136, "Mn" },
{ 0x01E137, 0x01E13D, "Lm" },
{ 0x01E140, 0x01E149, "Nd" },
{ 0x01E290, 0x01E2AD, "Lo" },
{ 0x01E2C0, 0x01E2EB, "Lo" },
{ 0x01E2EC, 0x01E2EF, "Mn" },
{ 0x01E2F0, 0x01E2F9, "Nd" },
```

```
{ 0x01E7E0, 0x01E7E6, "Lo" },  
{ 0x01E7E8, 0x01E7EB, "Lo" },  
{ 0x01E7ED, 0x01E7EE, "Lo" },  
{ 0x01E7F0, 0x01E7FE, "Lo" },  
{ 0x01E800, 0x01E8C4, "Lo" },  
{ 0x01E8C7, 0x01E8CF, "No" },  
{ 0x01E8D0, 0x01E8D6, "Mn" },  
{ 0x01E900, 0x01E921, "Lu" },  
{ 0x01E922, 0x01E943, "Ll" },  
{ 0x01E944, 0x01E94A, "Mn" },  
{ 0x01E950, 0x01E959, "Nd" },  
{ 0x01E95E, 0x01E95F, "Po" },  
{ 0x01EC71, 0x01ECAB, "No" },  
{ 0x01ECAD, 0x01ECAF, "No" },  
{ 0x01ECB1, 0x01ECB4, "No" },  
{ 0x01ED01, 0x01ED2D, "No" },  
{ 0x01ED2F, 0x01ED3D, "No" },  
{ 0x01EE00, 0x01EE03, "Lo" },  
{ 0x01EE05, 0x01EE1F, "Lo" },  
{ 0x01EE21, 0x01EE22, "Lo" },  
{ 0x01EE29, 0x01EE32, "Lo" },  
{ 0x01EE34, 0x01EE37, "Lo" },  
{ 0x01EE4D, 0x01EE4F, "Lo" },  
{ 0x01EE51, 0x01EE52, "Lo" },  
{ 0x01EE61, 0x01EE62, "Lo" },  
{ 0x01EE67, 0x01EE6A, "Lo" },  
{ 0x01EE6C, 0x01EE72, "Lo" },  
{ 0x01EE74, 0x01EE77, "Lo" },  
{ 0x01EE79, 0x01EE7C, "Lo" },  
{ 0x01EE80, 0x01EE89, "Lo" },  
{ 0x01EE8B, 0x01EE9B, "Lo" },  
{ 0x01EEA1, 0x01EEA3, "Lo" },  
{ 0x01EEA5, 0x01EEA9, "Lo" },  
{ 0x01EEAB, 0x01EEBB, "Lo" },  
{ 0x01EEF0, 0x01EEF1, "Sm" },  
{ 0x01F000, 0x01F02B, "So" },  
{ 0x01F030, 0x01F093, "So" },  
{ 0x01F0A0, 0x01F0AE, "So" },  
{ 0x01F0B1, 0x01F0BF, "So" },  
{ 0x01F0C1, 0x01F0CF, "So" },  
{ 0x01F0D1, 0x01F0F5, "So" },  
{ 0x01F100, 0x01F10C, "No" },  
{ 0x01F10D, 0x01F1AD, "So" },  
{ 0x01F1E6, 0x01F202, "So" },  
{ 0x01F210, 0x01F23B, "So" },  
{ 0x01F240, 0x01F248, "So" },  
{ 0x01F250, 0x01F251, "So" },  
{ 0x01F260, 0x01F265, "So" },  
{ 0x01F300, 0x01F3FA, "So" },  
{ 0x01F3FB, 0x01F3FF, "Sk" },  
{ 0x01F400, 0x01F6D7, "So" },  
{ 0x01F6DD, 0x01F6EC, "So" },  
{ 0x01F6F0, 0x01F6FC, "So" },  
{ 0x01F700, 0x01F773, "So" },  
{ 0x01F780, 0x01F7D8, "So" },  
{ 0x01F7E0, 0x01F7EB, "So" },  
{ 0x01F800, 0x01F80B, "So" },  
{ 0x01F810, 0x01F847, "So" },  
{ 0x01F850, 0x01F859, "So" },  
{ 0x01F860, 0x01F887, "So" },  
{ 0x01F890, 0x01F8AD, "So" },  
{ 0x01F8B0, 0x01F8B1, "So" },  
{ 0x01F900, 0x01FA53, "So" },  
{ 0x01FA60, 0x01FA6D, "So" },
```

```
{ 0x01FA70, 0x01FA74, "So" },  
{ 0x01FA78, 0x01FA7C, "So" },  
{ 0x01FA80, 0x01FA86, "So" },  
{ 0x01FA90, 0x01FAAC, "So" },  
{ 0x01FAB0, 0x01FABA, "So" },  
{ 0x01FAC0, 0x01FAC5, "So" },  
{ 0x01FAD0, 0x01FAD9, "So" },  
{ 0x01FAE0, 0x01FAE7, "So" },  
{ 0x01FAF0, 0x01FAF6, "So" },  
{ 0x01FB00, 0x01FB92, "So" },  
{ 0x01FB94, 0x01FBCA, "So" },  
{ 0x01FBF0, 0x01FBF9, "Nd" },  
{ 0x020000, 0x02A6DF, "Lo" },  
{ 0x02A700, 0x02B738, "Lo" },  
{ 0x02B740, 0x02B81D, "Lo" },  
{ 0x02B820, 0x02CEA1, "Lo" },  
{ 0x02CEB0, 0x02EBE0, "Lo" },  
{ 0x02F800, 0x02FA1D, "Lo" },  
{ 0x030000, 0x03134A, "Lo" },  
{ 0x0E0020, 0x0E007F, "Cf" },  
{ 0x0E0100, 0x0E01EF, "Mn" },  
{ 0x0F0000, 0x0FFFFD, "Co" },  
{ 0x100000, 0x10FFFFD, "Co" },  
,  
long_names = {  
    C = "Other",  
    Cc = "Control",  
    Cf = "Format",  
    Cn = "Unassigned",  
    Co = "Private_Use",  
    Cs = "Surrogate",  
    L = "Letter",  
    LC = "Cased_Letter",  
    Ll = "Lowercase_Letter",  
    Lm = "Modifier_Letter",  
    Lo = "Other_Letter",  
    Lt = "Titlecase_Letter",  
    Lu = "Uppercase_Letter",  
    M = "Mark",  
    Mc = "Spacing_Mark",  
    Me = "Enclosing_Mark",  
    Mn = "Nonspacing_Mark",  
    N = "Number",  
    Nd = "Decimal_Number",  
    Nl = "Letter_Number",  
    No = "Other_Number",  
    P = "Punctuation",  
    Pc = "Connector_Punctuation",  
    Pd = "Dash_Punctuation",  
    Pe = "Close_Punctuation",  
    Pf = "Final_Punctuation",  
    Pi = "Initial_Punctuation",  
    Po = "Other_Punctuation",  
    Ps = "Open_Punctuation",  
    S = "Symbol",  
    Sc = "Currency_Symbol",  
    Sk = "Modifier_Symbol",  
    Sm = "Math_Symbol",  
    So = "Other_Symbol",  
    Z = "Separator",  
    Zl = "Line_Separator",  
    Zp = "Paragraph_Separator",  
    Zs = "Space_Separator",  
},
```

{

## Modul:Unicode data/category/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/category**

Unicode General Category data generated by [Module:Unicode data/category/make](#) from [DerivedGeneralCategory.txt](#) and [PropertyValueAliases.txt](#) in the Unicode Character Database. The category Cn (Unassigned) is omitted because it is the default for characters not assigned to another category.

## Modul:Unicode data/combining

Contains data used by [Module:Unicode data](#) to determine whether a character is combining or not. Can also be used to return the character's **combining class**. Generated from [DerivedCombiningClass.txt](#) using a script.

```
local data = {
    singles = {
        [0x0000315] = 232,
        [0x000031A] = 232,
        [0x000031B] = 216,
        [0x0000345] = 240,
        [0x0000346] = 230,
        [0x0000357] = 230,
        [0x0000358] = 232,
        [0x000035B] = 230,
        [0x000035C] = 233,
        [0x000035F] = 233,
        [0x0000362] = 233,
        [0x0000591] = 220,
        [0x0000596] = 220,
        [0x000059A] = 222,
        [0x000059B] = 220,
        [0x0005AA] = 220,
        [0x0005AD] = 222,
        [0x0005AE] = 228,
        [0x0005AF] = 230,
        [0x0005B0] = 10,
        [0x0005B1] = 11,
        [0x0005B2] = 12,
        [0x0005B3] = 13,
        [0x0005B4] = 14,
        [0x0005B5] = 15,
        [0x0005B6] = 16,
        [0x0005B7] = 17,
        [0x0005B8] = 18,
        [0x0005BB] = 20,
        [0x0005BC] = 21,
        [0x0005BD] = 22,
        [0x0005BF] = 23,
        [0x0005C1] = 24,
        [0x0005C2] = 25,
        [0x0005C4] = 230,
        [0x0005C5] = 220,
        [0x0005C7] = 18,
        [0x000618] = 30,
        [0x000619] = 31,
        [0x00061A] = 32,
        [0x00064B] = 27,
        [0x00064C] = 28,
        [0x00064D] = 29,
        [0x00064E] = 30,
        [0x00064F] = 31,
        [0x000650] = 32,
        [0x000651] = 33,
        [0x000652] = 34,
        [0x00065C] = 220,
        [0x00065F] = 220,
        [0x000670] = 35,
```

[0x0006E3]	= 220,
[0x0006E4]	= 230,
[0x0006EA]	= 220,
[0x0006ED]	= 220,
[0x000711]	= 36,
[0x000730]	= 230,
[0x000731]	= 220,
[0x000734]	= 220,
[0x00073A]	= 230,
[0x00073D]	= 230,
[0x00073E]	= 220,
[0x000742]	= 220,
[0x000743]	= 230,
[0x000744]	= 220,
[0x000745]	= 230,
[0x000746]	= 220,
[0x000747]	= 230,
[0x000748]	= 220,
[0x0007F2]	= 220,
[0x0007F3]	= 230,
[0x0007FD]	= 220,
[0x000898]	= 230,
[0x0008E3]	= 220,
[0x0008E6]	= 220,
[0x0008E9]	= 220,
[0x0008F0]	= 27,
[0x0008F1]	= 28,
[0x0008F2]	= 29,
[0x0008F6]	= 220,
[0x00093C]	= 7,
[0x00094D]	= 9,
[0x000951]	= 230,
[0x000952]	= 220,
[0x0009BC]	= 7,
[0x0009CD]	= 9,
[0x0009FE]	= 230,
[0x000A3C]	= 7,
[0x000A4D]	= 9,
[0x000ABC]	= 7,
[0x000ACD]	= 9,
[0x000B3C]	= 7,
[0x000B4D]	= 9,
[0x000BCD]	= 9,
[0x000C3C]	= 7,
[0x000C4D]	= 9,
[0x000C55]	= 84,
[0x000C56]	= 91,
[0x000CBC]	= 7,
[0x000CCD]	= 9,
[0x000D4D]	= 9,
[0x000DCA]	= 9,
[0x000E3A]	= 9,
[0x000EBA]	= 9,
[0x000F35]	= 220,
[0x000F37]	= 220,
[0x000F39]	= 216,
[0x000F71]	= 129,
[0x000F72]	= 130,
[0x000F74]	= 132,
[0x000F80]	= 130,
[0x000F84]	= 9,
[0x000FC6]	= 220,
[0x001037]	= 7,
[0x00108D]	= 220,

[0x001714]	=	9,
[0x001715]	=	9,
[0x001734]	=	9,
[0x0017D2]	=	9,
[0x0017DD]	=	230,
[0x0018A9]	=	228,
[0x001939]	=	222,
[0x00193A]	=	230,
[0x00193B]	=	220,
[0x001A17]	=	230,
[0x001A18]	=	220,
[0x001A60]	=	9,
[0x001A7F]	=	220,
[0x001ABD]	=	220,
[0x001ACA]	=	220,
[0x001B34]	=	7,
[0x001B44]	=	9,
[0x001B6B]	=	230,
[0x001B6C]	=	220,
[0x001BAA]	=	9,
[0x001BAB]	=	9,
[0x001BE6]	=	7,
[0x001C37]	=	7,
[0x001CD4]	=	1,
[0x001CE0]	=	230,
[0x001CED]	=	220,
[0x001CF4]	=	230,
[0x001DC2]	=	220,
[0x001DCA]	=	220,
[0x001DCD]	=	234,
[0x001DCE]	=	214,
[0x001DCF]	=	220,
[0x001DD0]	=	202,
[0x001DF6]	=	232,
[0x001DF9]	=	220,
[0x001DFA]	=	218,
[0x001DFB]	=	230,
[0x001DFC]	=	233,
[0x001DFD]	=	220,
[0x001DFE]	=	230,
[0x001DFF]	=	220,
[0x0020E1]	=	230,
[0x0020E7]	=	230,
[0x0020E8]	=	220,
[0x0020E9]	=	230,
[0x0020F0]	=	230,
[0x002D7F]	=	9,
[0x00302A]	=	218,
[0x00302B]	=	228,
[0x00302C]	=	232,
[0x00302D]	=	222,
[0x00A66F]	=	230,
[0x00A806]	=	9,
[0x00A82C]	=	9,
[0x00A8C4]	=	9,
[0x00A953]	=	9,
[0x00A9B3]	=	7,
[0x00A9C0]	=	9,
[0x00AAB0]	=	230,
[0x00AAB4]	=	220,
[0x00AAC1]	=	230,
[0x00AAF6]	=	9,
[0x00ABED]	=	9,
[0x00FB1E]	=	26,

```
[0x0101FD] = 220,  
[0x0102E0] = 220,  
[0x010A0D] = 220,  
[0x010A0F] = 230,  
[0x010A38] = 230,  
[0x010A39] = 1,  
[0x010A3A] = 220,  
[0x010A3F] = 9,  
[0x010AE5] = 230,  
[0x010AE6] = 220,  
[0x010F4B] = 220,  
[0x010F4C] = 230,  
[0x010F82] = 230,  
[0x010F83] = 220,  
[0x010F84] = 230,  
[0x010F85] = 220,  
[0x011046] = 9,  
[0x011070] = 9,  
[0x01107F] = 9,  
[0x0110B9] = 9,  
[0x0110BA] = 7,  
[0x011173] = 7,  
[0x0111C0] = 9,  
[0x0111CA] = 7,  
[0x011235] = 9,  
[0x011236] = 7,  
[0x0112E9] = 7,  
[0x0112EA] = 9,  
[0x01134D] = 9,  
[0x011442] = 9,  
[0x011446] = 7,  
[0x01145E] = 230,  
[0x0114C2] = 9,  
[0x0114C3] = 7,  
[0x0115BF] = 9,  
[0x0115C0] = 7,  
[0x01163F] = 9,  
[0x0116B6] = 9,  
[0x0116B7] = 7,  
[0x01172B] = 9,  
[0x011839] = 9,  
[0x01183A] = 7,  
[0x01193D] = 9,  
[0x01193E] = 9,  
[0x011943] = 7,  
[0x0119E0] = 9,  
[0x011A34] = 9,  
[0x011A47] = 9,  
[0x011A99] = 9,  
[0x011C3F] = 9,  
[0x011D42] = 7,  
[0x011D97] = 9,  
[0x01BC9E] = 1,  
[0x01D16D] = 226,  
[0x01E2AE] = 230,  
[0x01E94A] = 7,  
};  
ranges = {  
    { 0x000300, 0x000314, 230 },  
    { 0x000316, 0x000319, 220 },  
    { 0x00031C, 0x000320, 220 },  
    { 0x000321, 0x000322, 202 },  
    { 0x000323, 0x000326, 220 },  
    { 0x000327, 0x000328, 202 },  
}
```

## Modul: Unicode data

```
{ 0x000329, 0x000333, 220 },
{ 0x000334, 0x000338, 1 },
{ 0x000339, 0x00033C, 220 },
{ 0x00033D, 0x000344, 230 },
{ 0x000347, 0x000349, 220 },
{ 0x00034A, 0x00034C, 230 },
{ 0x00034D, 0x00034E, 220 },
{ 0x000350, 0x000352, 230 },
{ 0x000353, 0x000356, 220 },
{ 0x000359, 0x00035A, 220 },
{ 0x00035D, 0x00035E, 234 },
{ 0x000360, 0x000361, 234 },
{ 0x000363, 0x00036F, 230 },
{ 0x000483, 0x000487, 230 },
{ 0x000592, 0x000595, 230 },
{ 0x000597, 0x000599, 230 },
{ 0x00059C, 0x0005A1, 230 },
{ 0x0005A2, 0x0005A7, 220 },
{ 0x0005A8, 0x0005A9, 230 },
{ 0x0005AB, 0x0005AC, 230 },
{ 0x0005B9, 0x0005BA, 19 },
{ 0x000610, 0x000617, 230 },
{ 0x000653, 0x000654, 230 },
{ 0x000655, 0x000656, 220 },
{ 0x000657, 0x00065B, 230 },
{ 0x00065D, 0x00065E, 230 },
{ 0x0006D6, 0x0006DC, 230 },
{ 0x0006DF, 0x0006E2, 230 },
{ 0x0006E7, 0x0006E8, 230 },
{ 0x0006EB, 0x0006EC, 230 },
{ 0x000732, 0x000733, 230 },
{ 0x000735, 0x000736, 230 },
{ 0x000737, 0x000739, 220 },
{ 0x00073B, 0x00073C, 220 },
{ 0x00073F, 0x000741, 230 },
{ 0x000749, 0x00074A, 230 },
{ 0x0007EB, 0x0007F1, 230 },
{ 0x000816, 0x000819, 230 },
{ 0x00081B, 0x000823, 230 },
{ 0x000825, 0x000827, 230 },
{ 0x000829, 0x00082D, 230 },
{ 0x000859, 0x00085B, 220 },
{ 0x000899, 0x00089B, 220 },
{ 0x00089C, 0x00089F, 230 },
{ 0x0008CA, 0x0008CE, 230 },
{ 0x0008CF, 0x0008D3, 220 },
{ 0x0008D4, 0x0008E1, 230 },
{ 0x0008E4, 0x0008E5, 230 },
{ 0x0008E7, 0x0008E8, 230 },
{ 0x0008EA, 0x0008EC, 230 },
{ 0x0008ED, 0x0008EF, 220 },
{ 0x0008F3, 0x0008F5, 230 },
{ 0x0008F7, 0x0008F8, 230 },
{ 0x0008F9, 0x0008FA, 220 },
{ 0x0008FB, 0x0008FF, 230 },
{ 0x000953, 0x000954, 230 },
{ 0x000D3B, 0x000D3C, 9 },
{ 0x000E38, 0x000E39, 103 },
{ 0x000E48, 0x000E4B, 107 },
{ 0x000EB8, 0x000EB9, 118 },
{ 0x000EC8, 0x000ECB, 122 },
{ 0x000F18, 0x000F19, 220 },
{ 0x000F7A, 0x000F7D, 130 },
{ 0x000F82, 0x000F83, 230 },
```

```
{ 0x000F86, 0x000F87, 230 },
{ 0x001039, 0x00103A, 9 },
{ 0x00135D, 0x00135F, 230 },
{ 0x001A75, 0x001A7C, 230 },
{ 0x001AB0, 0x001AB4, 230 },
{ 0x001AB5, 0x001ABA, 220 },
{ 0x001ABB, 0x001ABC, 230 },
{ 0x001ABF, 0x001AC0, 220 },
{ 0x001AC1, 0x001AC2, 230 },
{ 0x001AC3, 0x001AC4, 220 },
{ 0x001AC5, 0x001AC9, 230 },
{ 0x001ACB, 0x001ACE, 230 },
{ 0x001B6D, 0x001B73, 230 },
{ 0x001BF2, 0x001BF3, 9 },
{ 0x001CD0, 0x001CD2, 230 },
{ 0x001CD5, 0x001CD9, 220 },
{ 0x001CDA, 0x001CDB, 230 },
{ 0x001CDC, 0x001CDF, 220 },
{ 0x001CE2, 0x001CE8, 1 },
{ 0x001CF8, 0x001CF9, 230 },
{ 0x001DC0, 0x001DC1, 230 },
{ 0x001DC3, 0x001DC9, 230 },
{ 0x001DCB, 0x001DCC, 230 },
{ 0x001DD1, 0x001DF5, 230 },
{ 0x001DF7, 0x001DF8, 228 },
{ 0x0020D0, 0x0020D1, 230 },
{ 0x0020D2, 0x0020D3, 1 },
{ 0x0020D4, 0x0020D7, 230 },
{ 0x0020D8, 0x0020DA, 1 },
{ 0x0020DB, 0x0020DC, 230 },
{ 0x0020E5, 0x0020E6, 1 },
{ 0x0020EA, 0x0020EB, 1 },
{ 0x0020EC, 0x0020EF, 220 },
{ 0x002CEF, 0x002CF1, 230 },
{ 0x002DE0, 0x002DFF, 230 },
{ 0x00302E, 0x00302F, 224 },
{ 0x003099, 0x00309A, 8 },
{ 0x00A674, 0x00A67D, 230 },
{ 0x00A69E, 0x00A69F, 230 },
{ 0x00A6F0, 0x00A6F1, 230 },
{ 0x00A8E0, 0x00A8F1, 230 },
{ 0x00A92B, 0x00A92D, 220 },
{ 0x00AAB2, 0x00AAB3, 230 },
{ 0x00AAB7, 0x00AAB8, 230 },
{ 0x00AA8E, 0x00AA8F, 230 },
{ 0x00FE20, 0x00FE26, 230 },
{ 0x00FE27, 0x00FE2D, 220 },
{ 0x00FE2E, 0x00FE2F, 230 },
{ 0x010376, 0x01037A, 230 },
{ 0x010D24, 0x010D27, 230 },
{ 0x010EAB, 0x010EAC, 230 },
{ 0x010F46, 0x010F47, 220 },
{ 0x010F48, 0x010F4A, 230 },
{ 0x010F4D, 0x010F50, 220 },
{ 0x011100, 0x011102, 230 },
{ 0x011133, 0x011134, 9 },
{ 0x01133B, 0x01133C, 7 },
{ 0x011366, 0x01136C, 230 },
{ 0x011370, 0x011374, 230 },
{ 0x011D44, 0x011D45, 9 },
{ 0x016AF0, 0x016AF4, 1 },
{ 0x016B30, 0x016B36, 230 },
{ 0x016FF0, 0x016FF1, 6 },
{ 0x01D165, 0x01D166, 216 },
```

## Modul: Unicode data

```
{ 0x01D167, 0x01D169, 1 },
{ 0x01D16E, 0x01D172, 216 },
{ 0x01D17B, 0x01D182, 220 },
{ 0x01D185, 0x01D189, 230 },
{ 0x01D18A, 0x01D18B, 220 },
{ 0x01D1AA, 0x01D1AD, 230 },
{ 0x01D242, 0x01D244, 230 },
{ 0x01E000, 0x01E006, 230 },
{ 0x01E008, 0x01E018, 230 },
{ 0x01E01B, 0x01E021, 230 },
{ 0x01E023, 0x01E024, 230 },
{ 0x01E026, 0x01E02A, 230 },
{ 0x01E130, 0x01E136, 230 },
{ 0x01E2EC, 0x01E2EF, 230 },
{ 0x01E8D0, 0x01E8D6, 220 },
{ 0x01E944, 0x01E949, 230 },
};

}

-- Needed for binary search.
data.ranges.length = #data.ranges

return data
```

## Modul:Unicode data/combining/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/combining**

Contains data used by [Module:Unicode data](#) to determine whether a character is combining or not. Can also be used to return the character's [combining class](#). Generated from [DerivedCombiningClass.txt](#) using a [script](#).

## Modul:Unicode data/control

Die Dokumentation für dieses Modul kann unter [Modul:Unicode data/control/Doku](#) erstellt werden

```
local Cc, Cf, Cs, Co, Cn =
    "control", "format", "surrogate", "private-use", "unassigned"
local Zs, Zl, Zp =
    "space-separator", "line-separator", "paragraph-separator"

local data = {
    singles = {
        [0x000020] = Zs,
        [0x0000A0] = Zs,
        [0x0000AD] = Cf,
        [0x00038B] = Cn,
        [0x00038D] = Cn,
        [0x0003A2] = Cn,
        [0x000530] = Cn,
        [0x000590] = Cn,
        [0x00061C] = Cf,
        [0x0006DD] = Cf,
        [0x00070E] = Cn,
        [0x00070F] = Cf,
        [0x00083F] = Cn,
        [0x00085F] = Cn,
        [0x00088F] = Cn,
        [0x0008E2] = Cf,
        [0x000984] = Cn,
        [0x0009A9] = Cn,
        [0x0009B1] = Cn,
        [0x0009DE] = Cn,
        [0x000A04] = Cn,
        [0x000A29] = Cn,
        [0x000A31] = Cn,
        [0x000A34] = Cn,
        [0x000A37] = Cn,
        [0x000A3D] = Cn,
        [0x000A5D] = Cn,
        [0x000A84] = Cn,
        [0x000A8E] = Cn,
        [0x000A92] = Cn,
        [0x000AA9] = Cn,
        [0x000AB1] = Cn,
        [0x000AB4] = Cn,
        [0x000AC6] = Cn,
        [0x000ACA] = Cn,
        [0x000B00] = Cn,
        [0x000B04] = Cn,
        [0x000B29] = Cn,
        [0x000B31] = Cn,
        [0x000B34] = Cn,
        [0x000B5E] = Cn,
        [0x000B84] = Cn,
        [0x000B91] = Cn,
        [0x000B9B] = Cn,
        [0x000B9D] = Cn,
        [0x000BC9] = Cn,
        [0x000C0D] = Cn,
        [0x000C11] = Cn,
        [0x000C29] = Cn,
```

[0x000C45]	= Cn,
[0x000C49]	= Cn,
[0x000C57]	= Cn,
[0x000C8D]	= Cn,
[0x000C91]	= Cn,
[0x000CA9]	= Cn,
[0x000CB4]	= Cn,
[0x000CC5]	= Cn,
[0x000CC9]	= Cn,
[0x000CDF]	= Cn,
[0x000CF0]	= Cn,
[0x000D0D]	= Cn,
[0x000D11]	= Cn,
[0x000D45]	= Cn,
[0x000D49]	= Cn,
[0x000D80]	= Cn,
[0x000D84]	= Cn,
[0x000DB2]	= Cn,
[0x000DBC]	= Cn,
[0x000DD5]	= Cn,
[0x000DD7]	= Cn,
[0x000E83]	= Cn,
[0x000E85]	= Cn,
[0x000E8B]	= Cn,
[0x000EA4]	= Cn,
[0x000EA6]	= Cn,
[0x000EC5]	= Cn,
[0x000EC7]	= Cn,
[0x000F48]	= Cn,
[0x000F98]	= Cn,
[0x000FB0]	= Cn,
[0x000FCD]	= Cn,
[0x0010C6]	= Cn,
[0x001249]	= Cn,
[0x001257]	= Cn,
[0x001259]	= Cn,
[0x001289]	= Cn,
[0x0012B1]	= Cn,
[0x0012BF]	= Cn,
[0x0012C1]	= Cn,
[0x0012D7]	= Cn,
[0x001311]	= Cn,
[0x001680]	= Zs,
[0x00176D]	= Cn,
[0x001771]	= Cn,
[0x00180E]	= Cf,
[0x00191F]	= Cn,
[0x001A5F]	= Cn,
[0x001B7F]	= Cn,
[0x001F58]	= Cn,
[0x001F5A]	= Cn,
[0x001F5C]	= Cn,
[0x001F5E]	= Cn,
[0x001FB5]	= Cn,
[0x001FC5]	= Cn,
[0x001FDC]	= Cn,
[0x001FF5]	= Cn,
[0x001FFF]	= Cn,
[0x002028]	= Zl,
[0x002029]	= Zp,
[0x00202F]	= Zs,
[0x00205F]	= Zs,
[0x002065]	= Cn,
[0x00208F]	= Cn,

[0x002B96]	= Cn,
[0x002D26]	= Cn,
[0x002DA7]	= Cn,
[0x002DAF]	= Cn,
[0x002DB7]	= Cn,
[0x002DBF]	= Cn,
[0x002DC7]	= Cn,
[0x002DCF]	= Cn,
[0x002DD7]	= Cn,
[0x002DDF]	= Cn,
[0x002E9A]	= Cn,
[0x003000]	= Zs,
[0x003040]	= Cn,
[0x003130]	= Cn,
[0x00318F]	= Cn,
[0x00321F]	= Cn,
[0x00A7D2]	= Cn,
[0x00A7D4]	= Cn,
[0x00A9CE]	= Cn,
[0x00A9FF]	= Cn,
[0x00AB27]	= Cn,
[0x00AB2F]	= Cn,
[0x00FB37]	= Cn,
[0x00FB3D]	= Cn,
[0x00FB3F]	= Cn,
[0x00FB42]	= Cn,
[0x00FB45]	= Cn,
[0x00FE53]	= Cn,
[0x00FE67]	= Cn,
[0x00FE75]	= Cn,
[0x00FEFF]	= Cf,
[0x00FF00]	= Cn,
[0x00FFE7]	= Cn,
[0x01000C]	= Cn,
[0x010027]	= Cn,
[0x01003B]	= Cn,
[0x01003E]	= Cn,
[0x01018F]	= Cn,
[0x01039E]	= Cn,
[0x01057B]	= Cn,
[0x01058B]	= Cn,
[0x010593]	= Cn,
[0x010596]	= Cn,
[0x0105A2]	= Cn,
[0x0105B2]	= Cn,
[0x0105BA]	= Cn,
[0x010786]	= Cn,
[0x0107B1]	= Cn,
[0x010809]	= Cn,
[0x010836]	= Cn,
[0x010856]	= Cn,
[0x0108F3]	= Cn,
[0x010A04]	= Cn,
[0x010A14]	= Cn,
[0x010A18]	= Cn,
[0x010E7F]	= Cn,
[0x010EAA]	= Cn,
[0x0110BD]	= Cf,
[0x0110CD]	= Cf,
[0x011135]	= Cn,
[0x0111E0]	= Cn,
[0x011212]	= Cn,
[0x011287]	= Cn,
[0x011289]	= Cn,

[0x01128E]	= Cn,
[0x01129E]	= Cn,
[0x011304]	= Cn,
[0x011329]	= Cn,
[0x011331]	= Cn,
[0x011334]	= Cn,
[0x01133A]	= Cn,
[0x01145C]	= Cn,
[0x011914]	= Cn,
[0x011917]	= Cn,
[0x011936]	= Cn,
[0x011C09]	= Cn,
[0x011C37]	= Cn,
[0x011CA8]	= Cn,
[0x011D07]	= Cn,
[0x011D0A]	= Cn,
[0x011D3B]	= Cn,
[0x011D3E]	= Cn,
[0x011D66]	= Cn,
[0x011D69]	= Cn,
[0x011D8F]	= Cn,
[0x011D92]	= Cn,
[0x01246F]	= Cn,
[0x01342F]	= Cn,
[0x016A5F]	= Cn,
[0x016ABF]	= Cn,
[0x016B5A]	= Cn,
[0x016B62]	= Cn,
[0x01AFF4]	= Cn,
[0x01AFFC]	= Cn,
[0x01AFFF]	= Cn,
[0x01D455]	= Cn,
[0x01D49D]	= Cn,
[0x01D4AD]	= Cn,
[0x01D4BA]	= Cn,
[0x01D4BC]	= Cn,
[0x01D4C4]	= Cn,
[0x01D506]	= Cn,
[0x01D515]	= Cn,
[0x01D51D]	= Cn,
[0x01D53A]	= Cn,
[0x01D53F]	= Cn,
[0x01D545]	= Cn,
[0x01D551]	= Cn,
[0x01DAA0]	= Cn,
[0x01E007]	= Cn,
[0x01E022]	= Cn,
[0x01E025]	= Cn,
[0x01E7E7]	= Cn,
[0x01E7EC]	= Cn,
[0x01E7EF]	= Cn,
[0x01E7FF]	= Cn,
[0x01EE04]	= Cn,
[0x01EE20]	= Cn,
[0x01EE23]	= Cn,
[0x01EE28]	= Cn,
[0x01EE33]	= Cn,
[0x01EE38]	= Cn,
[0x01EE3A]	= Cn,
[0x01EE48]	= Cn,
[0x01EE4A]	= Cn,
[0x01EE4C]	= Cn,
[0x01EE50]	= Cn,
[0x01EE53]	= Cn,

```
        [0x01EE58] = Cn,
        [0x01EE5A] = Cn,
        [0x01EE5C] = Cn,
        [0x01EE5E] = Cn,
        [0x01EE60] = Cn,
        [0x01EE63] = Cn,
        [0x01EE6B] = Cn,
        [0x01EE73] = Cn,
        [0x01EE78] = Cn,
        [0x01EE7D] = Cn,
        [0x01EE7F] = Cn,
        [0x01EE8A] = Cn,
        [0x01EEA4] = Cn,
        [0x01EEAA] = Cn,
        [0x01F0C0] = Cn,
        [0x01F0D0] = Cn,
        [0x01FB93] = Cn,
        [0x0E0001] = Cf,
    };
ranges = {
    { 0x000000, 0x00001F, Cc },
    { 0x00007F, 0x00009F, Cc },
    { 0x000378, 0x000379, Cn },
    { 0x000380, 0x000383, Cn },
    { 0x000557, 0x000558, Cn },
    { 0x00058B, 0x00058C, Cn },
    { 0x0005C8, 0x0005CF, Cn },
    { 0x0005EB, 0x0005EE, Cn },
    { 0x0005F5, 0x0005FF, Cn },
    { 0x000600, 0x000605, Cf },
    { 0x00074B, 0x00074C, Cn },
    { 0x0007B2, 0x0007BF, Cn },
    { 0x0007FB, 0x0007FC, Cn },
    { 0x00082E, 0x00082F, Cn },
    { 0x00085C, 0x00085D, Cn },
    { 0x00086B, 0x00086F, Cn },
    { 0x000890, 0x000891, Cf },
    { 0x000892, 0x000897, Cn },
    { 0x00098D, 0x00098E, Cn },
    { 0x000991, 0x000992, Cn },
    { 0x0009B3, 0x0009B5, Cn },
    { 0x0009BA, 0x0009BB, Cn },
    { 0x0009C5, 0x0009C6, Cn },
    { 0x0009C9, 0x0009CA, Cn },
    { 0x0009CF, 0x0009D6, Cn },
    { 0x0009D8, 0x0009DB, Cn },
    { 0x0009E4, 0x0009E5, Cn },
    { 0x0009FF, 0x000A00, Cn },
    { 0x000A0B, 0x000A0E, Cn },
    { 0x000A11, 0x000A12, Cn },
    { 0x000A3A, 0x000A3B, Cn },
    { 0x000A43, 0x000A46, Cn },
    { 0x000A49, 0x000A4A, Cn },
    { 0x000A4E, 0x000A50, Cn },
    { 0x000A52, 0x000A58, Cn },
    { 0x000A5F, 0x000A65, Cn },
    { 0x000A77, 0x000A80, Cn },
    { 0x000ABA, 0x000ABB, Cn },
    { 0x000ACE, 0x000ACF, Cn },
    { 0x000AD1, 0x000ADF, Cn },
    { 0x000AE4, 0x000AE5, Cn },
    { 0x000AF2, 0x000AF8, Cn },
    { 0x000B0D, 0x000B0E, Cn },
    { 0x000B11, 0x000B12, Cn },
```

## Modul: Unicode data

```
{ 0x000B3A, 0x000B3B, Cn },  
{ 0x000B45, 0x000B46, Cn },  
{ 0x000B49, 0x000B4A, Cn },  
{ 0x000B4E, 0x000B54, Cn },  
{ 0x000B58, 0x000B5B, Cn },  
{ 0x000B64, 0x000B65, Cn },  
{ 0x000B78, 0x000B81, Cn },  
{ 0x000B8B, 0x000B8D, Cn },  
{ 0x000B96, 0x000B98, Cn },  
{ 0x000BA0, 0x000BA2, Cn },  
{ 0x000BA5, 0x000BA7, Cn },  
{ 0x000BAB, 0x000BAD, Cn },  
{ 0x000BBA, 0x000BBD, Cn },  
{ 0x000BC3, 0x000BC5, Cn },  
{ 0x000BCE, 0x000BCF, Cn },  
{ 0x000BD1, 0x000BD6, Cn },  
{ 0x000BD8, 0x000BE5, Cn },  
{ 0x000BFB, 0x000BF, Cn },  
{ 0x000C3A, 0x000C3B, Cn },  
{ 0x000C4E, 0x000C54, Cn },  
{ 0x000C5B, 0x000C5C, Cn },  
{ 0x000C5E, 0x000C5F, Cn },  
{ 0x000C64, 0x000C65, Cn },  
{ 0x000C70, 0x000C76, Cn },  
{ 0x000CBA, 0x000CB, Cn },  
{ 0x000CCE, 0x000CD4, Cn },  
{ 0x000CD7, 0x000CDC, Cn },  
{ 0x000CE4, 0x000CE5, Cn },  
{ 0x000CF3, 0x000CF, Cn },  
{ 0x000D50, 0x000D53, Cn },  
{ 0x000D64, 0x000D65, Cn },  
{ 0x000D97, 0x000D99, Cn },  
{ 0x000DBE, 0x000DBF, Cn },  
{ 0x000DC7, 0x000DC9, Cn },  
{ 0x000DCB, 0x000DCE, Cn },  
{ 0x000DE0, 0x000DE5, Cn },  
{ 0x000DF0, 0x000DF1, Cn },  
{ 0x000DF5, 0x000E00, Cn },  
{ 0x000E3B, 0x000E3E, Cn },  
{ 0x000E5C, 0x000E80, Cn },  
{ 0x000EBE, 0x000EBF, Cn },  
{ 0x000ECE, 0x000ECF, Cn },  
{ 0x000EDA, 0x000EDB, Cn },  
{ 0x000EE0, 0x000EFF, Cn },  
{ 0x000F6D, 0x000F70, Cn },  
{ 0x000FDB, 0x000FFF, Cn },  
{ 0x0010C8, 0x0010CC, Cn },  
{ 0x0010CE, 0x0010CF, Cn },  
{ 0x00124E, 0x00124F, Cn },  
{ 0x00125E, 0x00125F, Cn },  
{ 0x00128E, 0x00128F, Cn },  
{ 0x0012B6, 0x0012B7, Cn },  
{ 0x0012C6, 0x0012C7, Cn },  
{ 0x001316, 0x001317, Cn },  
{ 0x00135B, 0x00135C, Cn },  
{ 0x00137D, 0x00137F, Cn },  
{ 0x00139A, 0x00139F, Cn },  
{ 0x0013F6, 0x0013F7, Cn },  
{ 0x0013FE, 0x0013FF, Cn },  
{ 0x00169D, 0x00169F, Cn },  
{ 0x0016F9, 0x0016FF, Cn },  
{ 0x001716, 0x00171E, Cn },  
{ 0x001737, 0x00173F, Cn },  
{ 0x001754, 0x00175F, Cn },
```

```
{ 0x001774, 0x00177F, Cn },
{ 0x0017DE, 0x0017DF, Cn },
{ 0x0017EA, 0x0017EF, Cn },
{ 0x0017FA, 0x0017FF, Cn },
{ 0x00181A, 0x00181F, Cn },
{ 0x001879, 0x00187F, Cn },
{ 0x0018AB, 0x0018AF, Cn },
{ 0x0018F6, 0x0018FF, Cn },
{ 0x00192C, 0x00192F, Cn },
{ 0x00193C, 0x00193F, Cn },
{ 0x001941, 0x001943, Cn },
{ 0x00196E, 0x00196F, Cn },
{ 0x001975, 0x00197F, Cn },
{ 0x0019AC, 0x0019AF, Cn },
{ 0x0019CA, 0x0019CF, Cn },
{ 0x0019DB, 0x0019DD, Cn },
{ 0x001A1C, 0x001A1D, Cn },
{ 0x001A7D, 0x001A7E, Cn },
{ 0x001A8A, 0x001A8F, Cn },
{ 0x001A9A, 0x001A9F, Cn },
{ 0x001AAE, 0x001AAF, Cn },
{ 0x001ACF, 0x001AFF, Cn },
{ 0x001B4D, 0x001B4F, Cn },
{ 0x001BF4, 0x001BFB, Cn },
{ 0x001C38, 0x001C3A, Cn },
{ 0x001C4A, 0x001C4C, Cn },
{ 0x001C89, 0x001C8F, Cn },
{ 0x001CBB, 0x001CBC, Cn },
{ 0x001CC8, 0x001CCF, Cn },
{ 0x001CFB, 0x001CFF, Cn },
{ 0x001F16, 0x001F17, Cn },
{ 0x001F1E, 0x001F1F, Cn },
{ 0x001F46, 0x001F47, Cn },
{ 0x001F4E, 0x001F4F, Cn },
{ 0x001F7E, 0x001F7F, Cn },
{ 0x001FD4, 0x001FD5, Cn },
{ 0x001FF0, 0x001FF1, Cn },
{ 0x002000, 0x00200A, Zs },
{ 0x00200B, 0x00200F, Cf },
{ 0x00202A, 0x00202E, Cf },
{ 0x002060, 0x002064, Cf },
{ 0x002066, 0x00206F, Cf },
{ 0x002072, 0x002073, Cn },
{ 0x00209D, 0x00209F, Cn },
{ 0x0020C1, 0x0020CF, Cn },
{ 0x0020F1, 0x0020FF, Cn },
{ 0x00218C, 0x00218F, Cn },
{ 0x002427, 0x00243F, Cn },
{ 0x00244B, 0x00245F, Cn },
{ 0x002B74, 0x002B75, Cn },
{ 0x002CF4, 0x002CF8, Cn },
{ 0x002D28, 0x002D2C, Cn },
{ 0x002D2E, 0x002D2F, Cn },
{ 0x002D68, 0x002D6E, Cn },
{ 0x002D71, 0x002D7E, Cn },
{ 0x002D97, 0x002D9F, Cn },
{ 0x002E5E, 0x002E7F, Cn },
{ 0x002EF4, 0x002EFF, Cn },
{ 0x002FD6, 0x002FEF, Cn },
{ 0x002FFC, 0x002FFF, Cn },
{ 0x003097, 0x003098, Cn },
{ 0x003100, 0x003104, Cn },
{ 0x0031E4, 0x0031EF, Cn },
{ 0x00A48D, 0x00A48F, Cn },
```

```
{ 0x00A4C7, 0x00A4CF, Cn },
{ 0x00A62C, 0x00A63F, Cn },
{ 0x00A6F8, 0x00A6FF, Cn },
{ 0x00A7CB, 0x00A7CF, Cn },
{ 0x00A7DA, 0x00A7F1, Cn },
{ 0x00A82D, 0x00A82F, Cn },
{ 0x00A83A, 0x00A83F, Cn },
{ 0x00A878, 0x00A87F, Cn },
{ 0x00A8C6, 0x00A8CD, Cn },
{ 0x00A8DA, 0x00A8DF, Cn },
{ 0x00A954, 0x00A95E, Cn },
{ 0x00A97D, 0x00A97F, Cn },
{ 0x00A9DA, 0x00A9DD, Cn },
{ 0x00AA37, 0x00AA3F, Cn },
{ 0x00AA4E, 0x00AA4F, Cn },
{ 0x00AA5A, 0x00AA5B, Cn },
{ 0x00AAC3, 0x00AAD4, Cn },
{ 0x00AAF7, 0x00AB00, Cn },
{ 0x00AB07, 0x00AB08, Cn },
{ 0x00AB0F, 0x00AB10, Cn },
{ 0x00AB17, 0x00AB1F, Cn },
{ 0x00AB6C, 0x00AB6F, Cn },
{ 0x00ABEE, 0x00ABEF, Cn },
{ 0x00ABFA, 0x00ABFF, Cn },
{ 0x00D7A4, 0x00D7AF, Cn },
{ 0x00D7C7, 0x00D7CA, Cn },
{ 0x00D7FC, 0x00D7FF, Cn },
{ 0x00D800, 0x00DFFF, Cs },
{ 0x00E000, 0x00F8FF, Co },
{ 0x00FA6E, 0x00FA6F, Cn },
{ 0x00FADA, 0x00FAFF, Cn },
{ 0x00FB07, 0x00FB12, Cn },
{ 0x00FB18, 0x00FB1C, Cn },
{ 0x00FBC3, 0x00FBD2, Cn },
{ 0x00FD90, 0x00FD91, Cn },
{ 0x00FDC8, 0x00FDCE, Cn },
{ 0x00FDD0, 0x00FDEF, Cn },
{ 0x00FE1A, 0x00FE1F, Cn },
{ 0x00FE6C, 0x00FE6F, Cn },
{ 0x00FEFD, 0x00FEFE, Cn },
{ 0x00FFBF, 0x00FFC1, Cn },
{ 0x00FFC8, 0x00FFC9, Cn },
{ 0x00FFD0, 0x00FFD1, Cn },
{ 0x00FFD8, 0x00FFD9, Cn },
{ 0x00FFDD, 0x00FFDF, Cn },
{ 0x00FFEF, 0x00FFF8, Cn },
{ 0x00FFF9, 0x00FFF9, Cf },
{ 0x00FFFF, 0x00FFFF, Cn },
{ 0x01004E, 0x01004F, Cn },
{ 0x01005E, 0x01007F, Cn },
{ 0x0100FB, 0x0100FF, Cn },
{ 0x010103, 0x010106, Cn },
{ 0x010134, 0x010136, Cn },
{ 0x01019D, 0x01019F, Cn },
{ 0x0101A1, 0x0101CF, Cn },
{ 0x0101FE, 0x01027F, Cn },
{ 0x01029D, 0x01029F, Cn },
{ 0x0102D1, 0x0102DF, Cn },
{ 0x0102FC, 0x0102FF, Cn },
{ 0x010324, 0x01032C, Cn },
{ 0x01034B, 0x01034F, Cn },
{ 0x01037B, 0x01037F, Cn },
{ 0x0103C4, 0x0103C7, Cn },
{ 0x0103D6, 0x0103FF, Cn },
```

## Modul: Unicode data

```
{ 0x01049E, 0x01049F, Cn },
{ 0x0104AA, 0x0104AF, Cn },
{ 0x0104D4, 0x0104D7, Cn },
{ 0x0104FC, 0x0104FF, Cn },
{ 0x010528, 0x01052F, Cn },
{ 0x010564, 0x01056E, Cn },
{ 0x0105BD, 0x0105FF, Cn },
{ 0x010737, 0x01073F, Cn },
{ 0x010756, 0x01075F, Cn },
{ 0x010768, 0x01077F, Cn },
{ 0x0107BB, 0x0107FF, Cn },
{ 0x010806, 0x010807, Cn },
{ 0x010839, 0x01083B, Cn },
{ 0x01083D, 0x01083E, Cn },
{ 0x01089F, 0x0108A6, Cn },
{ 0x0108B0, 0x0108DF, Cn },
{ 0x0108F6, 0x0108FA, Cn },
{ 0x01091C, 0x01091E, Cn },
{ 0x01093A, 0x01093E, Cn },
{ 0x010940, 0x01097F, Cn },
{ 0x0109B8, 0x0109BB, Cn },
{ 0x0109D0, 0x0109D1, Cn },
{ 0x010A07, 0x010A0B, Cn },
{ 0x010A36, 0x010A37, Cn },
{ 0x010A3B, 0x010A3E, Cn },
{ 0x010A49, 0x010A4F, Cn },
{ 0x010A59, 0x010A5F, Cn },
{ 0x010AA0, 0x010ABF, Cn },
{ 0x010AE7, 0x010AEA, Cn },
{ 0x010AF7, 0x010AFF, Cn },
{ 0x010B36, 0x010B38, Cn },
{ 0x010B56, 0x010B57, Cn },
{ 0x010B73, 0x010B77, Cn },
{ 0x010B92, 0x010B98, Cn },
{ 0x010B9D, 0x010BA8, Cn },
{ 0x010BB0, 0x010BF, Cn },
{ 0x010C49, 0x010C7F, Cn },
{ 0x010CB3, 0x010CBF, Cn },
{ 0x010CF3, 0x010CF9, Cn },
{ 0x010D28, 0x010D2F, Cn },
{ 0x010D3A, 0x010E5F, Cn },
{ 0x010EAE, 0x010EAF, Cn },
{ 0x010EB2, 0x010EFF, Cn },
{ 0x010F28, 0x010F2F, Cn },
{ 0x010F5A, 0x010F6F, Cn },
{ 0x010F8A, 0x010FAF, Cn },
{ 0x010FCC, 0x010FDF, Cn },
{ 0x010FF7, 0x010FFF, Cn },
{ 0x01104E, 0x011051, Cn },
{ 0x011076, 0x01107E, Cn },
{ 0x0110C3, 0x0110CC, Cn },
{ 0x0110CE, 0x0110CF, Cn },
{ 0x0110E9, 0x0110EF, Cn },
{ 0x0110FA, 0x0110FF, Cn },
{ 0x011148, 0x01114F, Cn },
{ 0x011177, 0x01117F, Cn },
{ 0x0111F5, 0x0111FF, Cn },
{ 0x01123F, 0x01127F, Cn },
{ 0x0112AA, 0x0112AF, Cn },
{ 0x0112EB, 0x0112EF, Cn },
{ 0x0112FA, 0x0112FF, Cn },
{ 0x01130D, 0x01130E, Cn },
{ 0x011311, 0x011312, Cn },
{ 0x011345, 0x011346, Cn },
```

```
{ 0x011349, 0x01134A, Cn },
{ 0x01134E, 0x01134F, Cn },
{ 0x011351, 0x011356, Cn },
{ 0x011358, 0x01135C, Cn },
{ 0x011364, 0x011365, Cn },
{ 0x01136D, 0x01136F, Cn },
{ 0x011375, 0x0113FF, Cn },
{ 0x011462, 0x01147F, Cn },
{ 0x0114C8, 0x0114CF, Cn },
{ 0x0114DA, 0x01157F, Cn },
{ 0x0115B6, 0x0115B7, Cn },
{ 0x0115DE, 0x0115FF, Cn },
{ 0x011645, 0x01164F, Cn },
{ 0x01165A, 0x01165F, Cn },
{ 0x01166D, 0x01167F, Cn },
{ 0x0116BA, 0x0116BF, Cn },
{ 0x0116CA, 0x0116FF, Cn },
{ 0x01171B, 0x01171C, Cn },
{ 0x01172C, 0x01172F, Cn },
{ 0x011747, 0x0117FF, Cn },
{ 0x01183C, 0x01189F, Cn },
{ 0x0118F3, 0x0118FE, Cn },
{ 0x011907, 0x011908, Cn },
{ 0x01190A, 0x01190B, Cn },
{ 0x011939, 0x01193A, Cn },
{ 0x011947, 0x01194F, Cn },
{ 0x01195A, 0x01199F, Cn },
{ 0x0119A8, 0x0119A9, Cn },
{ 0x0119D8, 0x0119D9, Cn },
{ 0x0119E5, 0x0119FF, Cn },
{ 0x011A48, 0x011A4F, Cn },
{ 0x011AA3, 0x011AAF, Cn },
{ 0x011AF9, 0x011BFF, Cn },
{ 0x011C46, 0x011C4F, Cn },
{ 0x011C6D, 0x011C6F, Cn },
{ 0x011C90, 0x011C91, Cn },
{ 0x011CB7, 0x011CF, Cn },
{ 0x011D37, 0x011D39, Cn },
{ 0x011D48, 0x011D4F, Cn },
{ 0x011D5A, 0x011D5F, Cn },
{ 0x011D99, 0x011D9F, Cn },
{ 0x011DAA, 0x011EDF, Cn },
{ 0x011EF9, 0x011FAF, Cn },
{ 0x011FB1, 0x011FBF, Cn },
{ 0x011FF2, 0x011FFE, Cn },
{ 0x01239A, 0x0123FF, Cn },
{ 0x012475, 0x01247F, Cn },
{ 0x012544, 0x012F8F, Cn },
{ 0x012FF3, 0x012FFF, Cn },
{ 0x013430, 0x013438, Cf },
{ 0x013439, 0x0143FF, Cn },
{ 0x014647, 0x0167FF, Cn },
{ 0x016A39, 0x016A3F, Cn },
{ 0x016A6A, 0x016A6D, Cn },
{ 0x016ACA, 0x016ACF, Cn },
{ 0x016AEE, 0x016AEF, Cn },
{ 0x016AF6, 0x016AFF, Cn },
{ 0x016B46, 0x016B4F, Cn },
{ 0x016B78, 0x016B7C, Cn },
{ 0x016B90, 0x016E3F, Cn },
{ 0x016E9B, 0x016EFF, Cn },
{ 0x016F4B, 0x016F4E, Cn },
{ 0x016F88, 0x016F8E, Cn },
{ 0x016FA0, 0x016fdf, Cn },
```

## Modul: Unicode data

```
{ 0x016FE5, 0x016FEF, Cn },
{ 0x016FF2, 0x016FFF, Cn },
{ 0x0187F8, 0x0187FF, Cn },
{ 0x018CD6, 0x018CFF, Cn },
{ 0x018D09, 0x01AFEF, Cn },
{ 0x01B123, 0x01B14F, Cn },
{ 0x01B153, 0x01B163, Cn },
{ 0x01B168, 0x01B16F, Cn },
{ 0x01B2FC, 0x01BBFF, Cn },
{ 0x01BC6B, 0x01BC6F, Cn },
{ 0x01BC7D, 0x01BC7F, Cn },
{ 0x01BC89, 0x01BC8F, Cn },
{ 0x01BC9A, 0x01BC9B, Cn },
{ 0x01BCA0, 0x01BCA3, Cf },
{ 0x01BCA4, 0x01CEFF, Cn },
{ 0x01CF2E, 0x01CF2F, Cn },
{ 0x01CF47, 0x01CF4F, Cn },
{ 0x01CFC4, 0x01CFFF, Cn },
{ 0x01D0F6, 0x01D0FF, Cn },
{ 0x01D127, 0x01D128, Cn },
{ 0x01D173, 0x01D17A, Cf },
{ 0x01D1EB, 0x01D1FF, Cn },
{ 0x01D246, 0x01D2DF, Cn },
{ 0x01D2F4, 0x01D2FF, Cn },
{ 0x01D357, 0x01D35F, Cn },
{ 0x01D379, 0x01D3FF, Cn },
{ 0x01D4A0, 0x01D4A1, Cn },
{ 0x01D4A3, 0x01D4A4, Cn },
{ 0x01D4A7, 0x01D4A8, Cn },
{ 0x01D50B, 0x01D50C, Cn },
{ 0x01D547, 0x01D549, Cn },
{ 0x01D6A6, 0x01D6A7, Cn },
{ 0x01D7CC, 0x01D7CD, Cn },
{ 0x01DA8C, 0x01DA9A, Cn },
{ 0x01DAB0, 0x01DEFF, Cn },
{ 0x01DF1F, 0x01DFFF, Cn },
{ 0x01E019, 0x01E01A, Cn },
{ 0x01E02B, 0x01E0FF, Cn },
{ 0x01E12D, 0x01E12F, Cn },
{ 0x01E13E, 0x01E13F, Cn },
{ 0x01E14A, 0x01E14D, Cn },
{ 0x01E150, 0x01E28F, Cn },
{ 0x01E2AF, 0x01E2BF, Cn },
{ 0x01E2FA, 0x01E2FE, Cn },
{ 0x01E300, 0x01E7DF, Cn },
{ 0x01E8C5, 0x01E8C6, Cn },
{ 0x01E8D7, 0x01E8FF, Cn },
{ 0x01E94C, 0x01E94F, Cn },
{ 0x01E95A, 0x01E95D, Cn },
{ 0x01E960, 0x01EC70, Cn },
{ 0x01ECB5, 0x01ED00, Cn },
{ 0x01ED3E, 0x01EDFF, Cn },
{ 0x01EE25, 0x01EE26, Cn },
{ 0x01EE3C, 0x01EE41, Cn },
{ 0x01EE43, 0x01EE46, Cn },
{ 0x01EE55, 0x01EE56, Cn },
{ 0x01EE65, 0x01EE66, Cn },
{ 0x01EE9C, 0x01EEA0, Cn },
{ 0x01EEBC, 0x01EEEF, Cn },
{ 0x01EEF2, 0x01EFFF, Cn },
{ 0x01F02C, 0x01F02F, Cn },
{ 0x01F094, 0x01F09F, Cn },
{ 0x01F0AF, 0x01F0B0, Cn },
{ 0x01F0F6, 0x01F0FF, Cn },
```

## Modul:Unicode data

```
{ 0x01F1AE, 0x01F1E5, Cn },
{ 0x01F203, 0x01F20F, Cn },
{ 0x01F23C, 0x01F23F, Cn },
{ 0x01F249, 0x01F24F, Cn },
{ 0x01F252, 0x01F25F, Cn },
{ 0x01F266, 0x01F2FF, Cn },
{ 0x01F6D8, 0x01F6DC, Cn },
{ 0x01F6ED, 0x01F6EF, Cn },
{ 0x01F6FD, 0x01F6FF, Cn },
{ 0x01F774, 0x01F77F, Cn },
{ 0x01F7D9, 0x01F7DF, Cn },
{ 0x01F7EC, 0x01F7EF, Cn },
{ 0x01F7F1, 0x01F7FF, Cn },
{ 0x01F80C, 0x01F80F, Cn },
{ 0x01F848, 0x01F84F, Cn },
{ 0x01F85A, 0x01F85F, Cn },
{ 0x01F888, 0x01F88F, Cn },
{ 0x01F8AE, 0x01F8AF, Cn },
{ 0x01F8B2, 0x01F8FF, Cn },
{ 0x01FA54, 0x01FA5F, Cn },
{ 0x01FA6E, 0x01FA6F, Cn },
{ 0x01FA75, 0x01FA77, Cn },
{ 0x01FA7D, 0x01FA7F, Cn },
{ 0x01FA87, 0x01FA8F, Cn },
{ 0x01FAAD, 0x01FAAF, Cn },
{ 0x01FABB, 0x01FABF, Cn },
{ 0x01FAC6, 0x01FACF, Cn },
{ 0x01FADA, 0x01FADF, Cn },
{ 0x01FAE8, 0x01FAEF, Cn },
{ 0x01FAF7, 0x01FAFF, Cn },
{ 0x01FBBC, 0x01FBEE, Cn },
{ 0x01FBFA, 0x01FFFF, Cn },
{ 0x02A6E0, 0x02A6FF, Cn },
{ 0x02B739, 0x02B73F, Cn },
{ 0x02B81E, 0x02B81F, Cn },
{ 0x02CEA2, 0x02CEAF, Cn },
{ 0x02EBE1, 0x02F7FF, Cn },
{ 0x02FA1E, 0x02FFFF, Cn },
{ 0x03134B, 0x0E0000, Cn },
{ 0x0E0002, 0x0E001F, Cn },
{ 0x0E0020, 0x0E007F, Cf },
{ 0x0E0080, 0x0E00FF, Cn },
{ 0x0E01F0, 0x0EFFFF, Cn },
{ 0x0F0000, 0x0FFFFD, Co },
{ 0xFFFFFE, 0x0FFFFF, Cn },
{ 0x100000, 0x10FFFFD, Co },
{ 0x10FFFFE, 0x10FFFFF, Cn },
};

}

-- Needed for binary search.
data.ranges.length = #data.ranges

return data
```

## Modul:Unicode data/derived core properties

Contains data for the Default\_Ignorable\_Code\_Point property, which is used by the function `is_default_ignorable` in [Module:Unicode data/sandbox](#). Generated by [Module:Unicode data/derived core properties/make](#) from [DerivedCoreProperties.txt](#) in the Unicode Character Database.

```
local data = {}

data.default_ignorable = {
    singles = {
        [0x000AD] = true,
        [0x0034F] = true,
        [0x0061C] = true,
        [0x03164] = true,
        [0x0FEFF] = true,
        [0x0FFA0] = true,
    },
    ranges = {
        { 0x0115F, 0x01160 },
        { 0x017B4, 0x017B5 },
        { 0x0180B, 0x0180F },
        { 0x0200B, 0x0200F },
        { 0x0202A, 0x0202E },
        { 0x02060, 0x0206F },
        { 0x0FE00, 0x0FE0F },
        { 0x0FFF0, 0x0FFF8 },
        { 0x1BCA0, 0x1BCA3 },
        { 0x1D173, 0x1D17A },
        { 0xE0000, 0xE0FFF },
    },
}
return data
```

## Modul:Unicode data/derived core properties/Doku

---

**Dies ist die Dokumentationsseite für Modul:Unicode data/derived core properties**

Contains data for the Default\_Ignorable\_Code\_Point property, which is used by the function `is_default_ignorable` in [Module:Unicode data/sandbox](#). Generated by [Module:Unicode data/derived core properties/make](#) from [DerivedCoreProperties.txt](#) in the Unicode Character Database.

## Modul:Unicode data/documentation functions

Die Dokumentation für dieses Modul kann unter [Modul:Unicode data/documentation functions/Doku](#) erstellt werden

```
local p = {}

local output_mt = {}
function output_mt:insert(str)
    self.n = self.n + 1
    self[self.n] = str
end

function output_mt:insert_format(...)
    self:insert(string.format(...))
end

output_mt.join = table.concat
output_mt.__index = output_mt

local function Output()
    return setmetatable({ n = 0 }, output_mt)
end

function p.show_modules()
    local output = Output()

    output:insert [[
{| class="wikitable" style="text-align: center;"

|+ Character name data modules,<br>organized by first three digits of codepoint |]

        for i = -1, 0xF do
            if i >= 0 then
                output:insert_format('\n! %X', i)
            else
                output:insert '\n!'
            end
        end

        output:insert '\n|-'

        local prev = -1
        local row
        local found_module = false
        for i = 0, 0x10F do
            local first_two_digits = math.floor(i / 0x10)
            if first_two_digits ~= prev then
                if found_module then
                    output:insert(row:join())
                end
                found_module = false
                row = Output{}
                row:insert_format("\n|- \n! %02Xx", first_two_digits)
                prev = first_two_digits
            end
        end
    }
]]
```

```
        row:insert '\n| '
local name_module = ('Module:Unicode data/names/%03X'):format(i)
if mw.title.new(name_module).exists then
    local first_cp = i * 0x1000
    row:insert_format("[[%s|U+%04X&ndash;U+%04X]]",
                      name_module, first_cp, first_cp + 0xFFFF)
    found_module = true
end
end
output:insert "\n|}"
return output:join()
end

return p
```

## Modul:Unicode data/scripts

This module contains data that is used by [Module:Unicode data](#) to determine the Unicode script code for a code point and to determine if a Unicode script is written right-to-left. The right-to-left script data is sourced from [Module:Lang/data](#). The main table in the module is generated by [Module:Unicode data/scripts/make](#) from [Scripts.txt](#) and [PropertyValueAliases.txt](#) in the Unicode Character Database (version 14.0).

```
-- [=]
-- Official Unicode script values for individual codepoints and ranges of
-- codepoints.

-- https://www.unicode.org/Public/UNIDATA/Scripts.txt provided
-- the script names, and https://www.unicode.org/Public/UNIDATA/PropertyValueAli
-- provided script codes corresponding to the names (see [[Script (Unicode)])].
-- ]=]

local data = {
    singles = {
        [0x000AA] = "Latn",
        [0x000BA] = "Latn",
        [0x000D7] = "Zyyy",
        [0x000F7] = "Zyyy",
        [0x00374] = "Zyyy",
        [0x0037E] = "Zyyy",
        [0x0037F] = "Grek",
        [0x00384] = "Grek",
        [0x00385] = "Zyyy",
        [0x00386] = "Grek",
        [0x00387] = "Zyyy",
        [0x0038C] = "Grek",
        [0x00605] = "Zyyy",
        [0x0060C] = "Zyyy",
        [0x0061B] = "Zyyy",
        [0x0061F] = "Zyyy",
        [0x00640] = "Zyyy",
        [0x00670] = "Zinh",
        [0x006DD] = "Zyyy",
        [0x0085E] = "Mand",
        [0x008E2] = "Zyyy",
        [0x009B2] = "Beng",
        [0x009D7] = "Beng",
        [0x00A3C] = "Guru",
        [0x00A51] = "Guru",
        [0x00A5E] = "Guru",
        [0x00AD0] = "Gujr",
        [0x00B9C] = "Taml",
        [0x00BD0] = "Taml",
        [0x00BD7] = "Taml",
        [0x00C5D] = "Telu",
        [0x00DBD] = "Sinh",
        [0x00DCA] = "Sinh",
        [0x00DD6] = "Sinh",
        [0x00E3F] = "Zyyy",
        [0x00E84] = "Looo",
        [0x00EA5] = "Looo",
    }
}
```

[0x00EC6]	= "Laoo",
[0x010C7]	= "Geor",
[0x010CD]	= "Geor",
[0x010FB]	= "Zyyy",
[0x01258]	= "Ethi",
[0x012C0]	= "Ethi",
[0x0171F]	= "Tglg",
[0x01804]	= "Mong",
[0x01805]	= "Zyyy",
[0x01940]	= "Limb",
[0x01CD3]	= "Zyyy",
[0x01CE1]	= "Zyyy",
[0x01CED]	= "Zinh",
[0x01CF4]	= "Zinh",
[0x01CFA]	= "Zyyy",
[0x01D2B]	= "Cyrl",
[0x01D78]	= "Cyrl",
[0x01DBF]	= "Grek",
[0x01F59]	= "Grek",
[0x01F5B]	= "Grek",
[0x01F5D]	= "Grek",
[0x02071]	= "Latn",
[0x0207F]	= "Latn",
[0x02126]	= "Grek",
[0x02132]	= "Latn",
[0x0214E]	= "Latn",
[0x02D27]	= "Geor",
[0x02D2D]	= "Geor",
[0x02D7F]	= "Tfng",
[0x03005]	= "Hani",
[0x03006]	= "Zyyy",
[0x03007]	= "Hani",
[0x030A0]	= "Zyyy",
[0x032FF]	= "Zyyy",
[0x0A7D3]	= "Latn",
[0x0A92E]	= "Zyyy",
[0x0A92F]	= "Kali",
[0x0A95F]	= "Rjng",
[0x0A9CF]	= "Zyyy",
[0x0AB5B]	= "Zyyy",
[0x0AB65]	= "Grek",
[0x0FB3E]	= "Hebr",
[0x0FDCC]	= "Arab",
[0x0FEFFF]	= "Zyyy",
[0x0FF70]	= "Zyyy",
[0x101A0]	= "Grek",
[0x101FD]	= "Zinh",
[0x102E0]	= "Zinh",
[0x1039F]	= "Ugar",
[0x1056F]	= "Aghb",
[0x10808]	= "Cprt",
[0x1083C]	= "Cprt",
[0x1083F]	= "Cprt",
[0x1091F]	= "Phnx",
[0x1093F]	= "Lydi",
[0x1107F]	= "Brah",
[0x110CD]	= "Kthi",
[0x11288]	= "Mult",
[0x1133B]	= "Zinh",
[0x11350]	= "Gran",
[0x11357]	= "Gran",
[0x118FF]	= "Wara",
[0x11909]	= "Diak",
[0x11D3A]	= "Gonm",

```
[0x11FB0] = "Lisu",
[0x11FFF] = "Taml",
[0x16FE0] = "Tang",
[0x16FE1] = "Nshu",
[0x16FE4] = "Kits",
[0x1B000] = "Kana",
[0x1D4A2] = "Zyyy",
[0x1D4BB] = "Zyyy",
[0x1D546] = "Zyyy",
[0x1E2FF] = "Wcho",
[0x1EE24] = "Arab",
[0x1EE27] = "Arab",
[0x1EE39] = "Arab",
[0x1EE3B] = "Arab",
[0x1EE42] = "Arab",
[0x1EE47] = "Arab",
[0x1EE49] = "Arab",
[0x1EE4B] = "Arab",
[0x1EE54] = "Arab",
[0x1EE57] = "Arab",
[0x1EE59] = "Arab",
[0x1EE5B] = "Arab",
[0x1EE5D] = "Arab",
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{ 0x002B9, 0x002DF, "Zyyy" },
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{ 0x002E5, 0x002E9, "Zyyy" },
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{ 0x002EC, 0x002FF, "Zyyy" },
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{ 0x00370, 0x00373, "Grek" },
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{ 0x00485, 0x00486, "Zinh" },
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{ 0x01944, 0x0194F, "Limb" },  
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{ 0x01C80, 0x01C88, "Cyrl" },  
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{ 0x0A880, 0x0A8C5, "Saur" },  
{ 0x0A8CE, 0x0A8D9, "Saur" },  
{ 0x0A8E0, 0x0A8FF, "Deva" },  
{ 0x0A900, 0x0A92D, "Kali" },  
{ 0x0A930, 0x0A953, "Rjng" },  
{ 0x0A960, 0x0A97C, "Hang" },  
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{ 0x0A9D0, 0x0A9D9, "Java" },  
{ 0x0A9DE, 0x0A9DF, "Java" },  
{ 0x0A9E0, 0x0A9FE, "Mymr" },  
{ 0x0AA00, 0x0AA36, "Cham" },  
{ 0x0AA40, 0x0AA4D, "Cham" },  
{ 0x0AA50, 0x0AA59, "Cham" },  
{ 0x0AA5C, 0x0AA5F, "Cham" },  
{ 0x0AA60, 0x0AA7F, "Mymr" },  
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{ 0x0AADB, 0x0AADF, "Tavt" },  
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{ 0x0AB09, 0x0AB0E, "Ethi" },  
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{ 0x0AB6A, 0x0AB6B, "Zyyy" },  
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{ 0x0FA70, 0x0FAD9, "Hani" },  
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{ 0x0FB13, 0x0FB17, "Armn" },  
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{ 0x0FB38, 0x0FB3C, "Hebr" },  
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{ 0x0FD92, 0x0FDC7, "Arab" },  
{ 0x0FDF0, 0x0FDFF, "Arab" },  
{ 0x0FE00, 0x0FE0F, "Zinh" },  
{ 0x0FE10, 0x0FE19, "Zyyy" },  
{ 0x0FE20, 0x0FE2D, "Zinh" },  
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{ 0x0FE54, 0x0FE66, "Zyyy" },  
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{ 0x0FE76, 0x0FEFC, "Arab" },  
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{ 0x0FF3B, 0x0FF40, "Zyyy" },  
{ 0x0FF41, 0x0FF5A, "Latn" },  
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{ 0x0FF9E, 0x0FF9F, "Zyyy" },  
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{ 0x0FFCA, 0x0FFCF, "Hang" },  
{ 0x0FFD2, 0x0FFD7, "Hang" },  
{ 0x0FFDA, 0x0FFDC, "Hang" },  
{ 0x0FFE0, 0x0FFE6, "Zyyy" },  
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{ 0x10080, 0x100FA, "Linb" },  
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{ 0x10107, 0x10133, "Zyyy" },  
{ 0x10137, 0x1013F, "Zyyy" },  
{ 0x10140, 0x1018E, "Grek" },  
{ 0x10190, 0x1019C, "Zyyy" },  
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{ 0x10280, 0x1029C, "Lyci" },  
{ 0x102A0, 0x102D0, "Cari" },  
{ 0x102E1, 0x102FB, "Zyyy" },  
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{ 0x1032D, 0x1032F, "Ital" },  
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{ 0x10350, 0x1037A, "Perm" },  
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{ 0x10857, 0x1085F, "Armi" },  
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{ 0x10B39, 0x10B3F, "Avst" },  
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{ 0x10B58, 0x10B5F, "Prti" },  
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{ 0x10B78, 0x10B7F, "Phli" },  
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{ 0x1145D, 0x11461, "Newa" },  
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{ 0x1EEAB, 0x1EEBB, "Arab" },  
{ 0x1EEF0, 0x1EEF1, "Arab" },  
{ 0x1F000, 0x1F02B, "Zyyy" },  
{ 0x1F030, 0x1F093, "Zyyy" },  
{ 0x1F0A0, 0x1F0AE, "Zyyy" },  
{ 0x1F0B1, 0x1F0BF, "Zyyy" },  
{ 0x1F0C1, 0x1F0CF, "Zyyy" },  
{ 0x1F0D1, 0x1F0F5, "Zyyy" },  
{ 0x1F100, 0x1F1AD, "Zyyy" },  
{ 0x1F1E6, 0x1F1FF, "Zyyy" },  
{ 0x1F201, 0x1F202, "Zyyy" },  
{ 0x1F210, 0x1F23B, "Zyyy" },  
{ 0x1F240, 0x1F248, "Zyyy" },  
{ 0x1F250, 0x1F251, "Zyyy" },  
{ 0x1F260, 0x1F265, "Zyyy" },  
{ 0x1F300, 0x1F6D7, "Zyyy" },  
{ 0x1F6DD, 0x1F6EC, "Zyyy" },  
{ 0x1F6F0, 0x1F6FC, "Zyyy" },  
{ 0x1F700, 0x1F773, "Zyyy" },  
{ 0x1F780, 0x1F7D8, "Zyyy" },  
{ 0x1F7E0, 0x1F7EB, "Zyyy" },  
{ 0x1F800, 0x1F80B, "Zyyy" },  
{ 0x1F810, 0x1F847, "Zyyy" },  
{ 0x1F850, 0x1F859, "Zyyy" },  
{ 0x1F860, 0x1F887, "Zyyy" },  
{ 0x1F890, 0x1F8AD, "Zyyy" },  
{ 0x1F8B0, 0x1F8B1, "Zyyy" },  
{ 0x1F900, 0x1FA53, "Zyyy" },  
{ 0x1FA60, 0x1FA6D, "Zyyy" },  
{ 0x1FA70, 0x1FA74, "Zyyy" },  
{ 0x1FA78, 0x1FA7C, "Zyyy" },  
{ 0x1FA80, 0x1FA86, "Zyyy" },  
{ 0x1FA90, 0x1FAAC, "Zyyy" },  
{ 0x1FABA, 0x1FABA, "Zyyy" },  
{ 0x1FAC0, 0x1FAC5, "Zyyy" },  
{ 0x1FAD0, 0x1FAD9, "Zyyy" },  
{ 0x1FAE0, 0x1FAE7, "Zyyy" },  
{ 0x1FAF0, 0x1FAF6, "Zyyy" },
```

```
{ 0x1FB00, 0x1FB92, "Zyyy" },
{ 0x1FB94, 0x1FBCA, "Zyyy" },
{ 0x1FBF0, 0x1FBF9, "Zyyy" },
{ 0x20000, 0x2A6DF, "Hani" },
{ 0x2A700, 0x2B738, "Hani" },
{ 0x2B740, 0x2B81D, "Hani" },
{ 0x2B820, 0x2CEA1, "Hani" },
{ 0x2CEB0, 0x2EBE0, "Hani" },
{ 0x2F800, 0x2FA1D, "Hani" },
{ 0x30000, 0x3134A, "Hani" },
{ 0xE0020, 0xE007F, "Zyyy" },
{ 0xE0100, 0xE01EF, "Zinh" },
},
-- Scripts.txt gives full names; here we consider them aliases to save space
aliases = {
    Adlm = "Adlam",
    Aghb = "Caucasian Albanian",
    Ahom = "Ahom",
    Arab = "Arabic",
    Armi = "Imperial Aramaic",
    Armn = "Armenian",
    Avst = "Avestan",
    Bali = "Balinese",
    Bamu = "Bamum",
    Bass = "Bassa Vah",
    Batk = "Batak",
    Beng = "Bengali",
    Bhks = "Bhaiksuki",
    Bopo = "Bopomofo",
    Brah = "Brahmi",
    Brai = "Braille",
    Bugi = "Buginese",
    Buhd = "Buhid",
    Cakm = "Chakma",
    Cans = "Canadian Aboriginal",
    Cari = "Carian",
    Cham = "Cham",
    Cher = "Cherokee",
    Chrs = "Chorasmian",
    Copt = "Coptic",
    Cpmn = "Cypro Minoan",
    Cpri = "Cypriot",
    Cyrl = "Cyrillic",
    Deva = "Devanagari",
    Diak = "Dives Akuru",
    Dogr = "Dogra",
    Dsrt = "Deseret",
    Dupl = "Duployan",
    Egyp = "Egyptian Hieroglyphs",
    Elba = "Elbasan",
    Elym = "Elymaic",
    Ethi = "Ethiopic",
    Geor = "Georgian",
    Glag = "Glagolitic",
    Gong = "Gunjala Gondi",
    Gonm = "Masaram Gondi",
    Goth = "Gothic",
    Gran = "Grantha",
    Grek = "Greek",
    Gujr = "Gujarati",
    Guru = "Gurmukhi",
    Hang = "Hangul",
    Hani = "Han",
    Hano = "Hanunoo",
```

```
Hatr = "Hatran",
Hebr = "Hebrew",
Hira = "Hiragana",
Hluw = "Anatolian Hieroglyphs",
Hmng = "Pahawh Hmong",
Hmnp = "Nyiakeng Puachue Hmong",
Hrkt = "Katakana Or Hiragana",
Hung = "Old Hungarian",
Ital = "Old Italic",
Java = "Javanese",
Kali = "Kayah Li",
Kana = "Katakana",
Khar = "Kharoshthi",
Khmr = "Khmer",
Khoj = "Khojki",
Kits = "Khitan Small Script",
Knda = "Kannada",
Kthi = "Kaithi",
Lana = "Tai Tham",
Lao = "Lao",
Latn = "Latin",
Lepc = "Lepcha",
Limb = "Limbu",
Lina = "Linear A",
Linb = "Linear B",
Lisu = "Lisu",
Lyci = "Lycian",
Lydi = "Lydian",
Mahj = "Mahajani",
Maka = "Makasar",
Mand = "Mandaic",
Mani = "Manichaean",
Marc = "Marchen",
Medf = "Medefaidrin",
Mend = "Mende Kikakui",
Merc = "Meroitic Cursive",
Mero = "Meroitic Hieroglyphs",
Mlym = "Malayalam",
Modi = "Modi",
Mong = "Mongolian",
Mroo = "Mro",
Mtei = "Meetei Mayek",
Mult = "Multani",
Mymr = "Myanmar",
Nand = "Nandinagari",
Narb = "Old North Arabian",
Nbata = "Nabataean",
Newa = "Newa",
Nkoo = "Nko",
Nshu = "Nushu",
Ogam = "Ogham",
Olck = "Ol Chiki",
Orkh = "Old Turkic",
Orya = "Oriya",
Osge = "Osage",
Osma = "Osmanya",
Ougr = "Old Uyghur",
Palm = "Palmyrene",
Pauc = "Pau Cin Hau",
Perm = "Old Permic",
Phag = "Phags Pa",
Phli = "Inscriptional Pahlavi",
Phlp = "Psalter Pahlavi",
Phnx = "Phoenician",
```

```
        Plrd = "Miao",
        Prti = "Inscriptional Parthian",
        Rjng = "Rejang",
        Rohg = "Hanifi Rohingya",
        Runr = "Runic",
        Samr = "Samaritan",
        Sarb = "Old South Arabian",
        Saur = "Saurashtra",
        Sgnw = "SignWriting",
        Shaw = "Shavian",
        Shrd = "Sharada",
        Sidd = "Siddham",
        Sind = "Khudawadi",
        Sinh = "Sinhala",
        Sogd = "Sogdian",
        Sogo = "Old Sogdian",
        Sora = "Sora Sompeng",
        Soyo = "Soyombo",
        Sund = "Sundanese",
        Sylo = "Syloti Nagri",
        Syrc = "Syriac",
        Tagb = "Tagbanwa",
        Takr = "Takri",
        Tale = "Tai Le",
        Talu = "New Tai Lue",
        Taml = "Tamil",
        Tang = "Tangut",
        Tavt = "Tai Viet",
        Telu = "Telugu",
        Tfng = "Tifinagh",
        Tglg = "Tagalog",
        Thaa = "Thaana",
        Thai = "Thai",
        Tibt = "Tibetan",
        Tirh = "Tirhuta",
        Tnsa = "Tangsa",
        Toto = "Toto",
        Ugar = "Ugaritic",
        Vaii = "Vai",
        Vith = "Vithkuqi",
        Wara = "Warang Citi",
        Wcho = "Wancho",
        Xpeo = "Old Persian",
        Xsux = "Cuneiform",
        Yezi = "Yezidi",
        Yiii = "Yi",
        Zanb = "Zanabazar Square",
        Zinh = "Inherited",
        Zyyy = "Common",
        Zzzz = "Unknown",
    },
}

-- Required for binary search function in [[Module:Language/scripts]].
-- Cannot get length of module loaded with mw.loadData.
data.ranges.length = #data.ranges

data.rtl = {}

for _, script in ipairs(mw.loadData "Module:Lang/data".rtl_scripts) do
```

## Modul:Unicode data

```
-- [[Module:Lang/data]] has script codes in lowercase;
-- this module has script codes with the first letter capitalized.
data.rtl[script:gsub("^%a", string.upper)] = true
end

return data
```

## Modul:Unicode data/scripts/Doku

---

### Dies ist die Dokumentationsseite für [Modul:Unicode data/scripts](#)

This module contains data that is used by [Module:Unicode data](#) to determine the Unicode script code for a code point and to determine if a Unicode script is written right-to-left. The right-to-left script data is sourced from [Module:Lang/data](#). The main table in the module is generated by [Module:Unicode data/scripts/make](#) from [Scripts.txt](#) and [PropertyValueAliases.txt](#) in the Unicode Character Database (version 14.0).