

Modul:Convert/text/sandbox

This page defines text used by [Module:Convert](#). All documentation (from [Module:Convert/doc](#)) is at that module. The text includes messages and categories output by the module, and parameters used as input.

This is a separate module to simplify translation for use on another wiki. For example, see `translation_table` and the other tables in [bn:Module:Convert/text](#). Documentation is at [Template:Convert/Transwiki guide](#).

Any changes should first be tested at [Module:Convert/text/sandbox](#)—see [Template:Convert/testcases#Sandbox testcases](#).

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-- Text used by Module:Convert for enwiki.
-- This is a separate module to simplify translation for use on another wiki.
-- See [[:en:Template:Convert/Transwiki guide]] if copying to another wiki.

-- Some units accept an SI prefix before the unit code, such as "kg" for kilogram.
local SIprefixes = {
    -- The prefix field is what the prefix should be, if different from the prefix use
    ['Y'] = { exponent = 24, name = 'yotta',          },
    ['Z'] = { exponent = 21, name = 'zetta',         },
    ['E'] = { exponent = 18, name = 'exa',           },
    ['P'] = { exponent = 15, name = 'peta',          },
    ['T'] = { exponent = 12, name = 'tera',          },
    ['G'] = { exponent = 9, name = 'giga',           },
    ['M'] = { exponent = 6, name = 'mega',           },
    ['k'] = { exponent = 3, name = 'kilo',           },
    ['h'] = { exponent = 2, name = 'hecto',          },
    ['da'] = { exponent = 1, name = 'deca', name_us = 'deka' },
    ['d'] = { exponent = -1, name = 'deci',          },
    ['c'] = { exponent = -2, name = 'centi',         },
    ['m'] = { exponent = -3, name = 'milli',         },
    [''] = { exponent = -6, name = 'micro',          }, -- key = 'GREEK SMALL
    ['μ'] = { exponent = -6, name = 'micro', prefix = '' }, -- key = 'MICRO SIGN'
    ['u'] = { exponent = -6, name = 'micro', prefix = '' }, -- not an SI prefix, l
    ['n'] = { exponent = -9, name = 'nano',          },
    ['p'] = { exponent = -12, name = 'pico',          },
    ['f'] = { exponent = -15, name = 'femto',         },
    ['a'] = { exponent = -18, name = 'atto',          },
    ['z'] = { exponent = -21, name = 'zepto',         },
    ['y'] = { exponent = -24, name = 'yocto',         },
}

-- Some units can be qualified with one of the following prefixes, when linked.
local customary_units = {
    { "US", link = "United States customary units" },
    { "U.S.", link = "United States customary units" },
    { "imperial", link = "Imperial units" },
    { "imp", link = "Imperial units" },
}

-- Names when using engineering notation (a prefix of "eN" where N is a number; example "e1
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-- key = { "name", link = "article title", exponent = numeric_key_value }
-- If lk=on and link is defined, the name of the number will appear as a link.
local eng_scales = {
  ["3"] = { "thousand", exponent = 3 },
  ["6"] = { "million", exponent = 6 },
  ["9"] = { "billion", link = "1000000000 (number)", exponent = 9 },
  ["12"] = { "trillion", link = "1000000000000 (number)", exponent = 12 },
  ["15"] = { "quadrillion", link = "1000000000000000 (number)", exponent = 15 },
}

local all_categories = {
  unit = "[[Category:Convert errors]]",
  option = "[[Category:Convert errors]]",
  warning = "[[Category:Convert invalid options]]",
  tracking = "[[Category:Convert tracking]]",
}

-- For some error messages, the following puts the wanted style around
-- each unit code marked like '...%{ft%}...'.
local unitcode_regex = '%%({})'
local unitcode_replace = { ['{'] = '', ['}'] = '' } -- no longer need the more elaborate

-- All messages that may be displayed if a problem occurs.
local all_messages = {
  -- Message format string: $1=title, $2=text, $3=category, $4=anchor.
  -- Each displayed message starts with "Convert:" so can easily locate by searching
  cvt_format = '<sup class="noprint Inline-Template" style="white-space:nowrap;">[<i:
  cvt_format2 = '<sup class="noprint Inline-Template" style="white-space:nowrap;">[[[
  cvt_format_preview = '<strong class="error">Error in convert: $1 [[Help:Convert me:
  -- Each of following messages is a table:
  -- { [1] = 'title',          -- mouseover title text
  --   [2] = 'text',          -- link text displayed in article
  --   [3] = 'category key',  -- key to lookup category in all_categories
  --   [4] = 'anchor',       -- anchor for link to relevant section on help page
  --   regex = gsub_regex,
  --   replace = gsub_table,
  -- }
  --                                     Mouseover title text          Link text
  cvt_bad_input      = { 'input "$1" must be a number and unit'      , 'invalid input'
  cvt_bad_num        = { 'Value "$1" must be a number'              , 'invalid number'
  cvt_big_prec       = { 'Precision "$1" is too large'               , 'precision too large'
  cvt_invalid_num    = { 'Number has overflowed'                    , 'number overflowed'
  cvt_no_num         = { 'Needs the number to be converted'         , 'needs a number'
  cvt_no_num2        = { 'Needs another number for a range'         , 'needs another number'
  cvt_bad_altitude  = { '"$1" needs an integer'                    , 'invalid altitude'
  cvt_bad_frac       = { '"$1" needs an integer above 1'           , 'invalid fraction'
  cvt_bad_prec       = { 'Precision "$1" must be an integer'        , 'invalid precision'
  cvt_bad_sigfig     = { '"$1" needs a positive integer'           , 'invalid significant figures'
  cvt_empty_option   = { 'Ignored empty option "$1"'               , 'empty option'
  cvt_deprecated     = { 'Option "$1" is deprecated'                , '*'
  cvt_no_spell       = { 'Spelling is not available'                , 'bug, ask for help'
  cvt_unknown_option = { 'Ignored invalid option "$1"'              , 'invalid option'
  cvt_wd_fail        = { 'Unable to access Wikidata'                 , 'wikidata problem'
  cvt_bad_default    = { 'Unit "$1" has an invalid default'        , 'bug, ask for help'
  cvt_bad_unit       = { 'Unit "$1" is invalid here'                , 'unit invalid'
  cvt_no_default     = { 'Unit "$1" has no default output unit'    , 'bug, ask for help'
  cvt_no_unit        = { 'Needs name of unit'                       , 'needs unit name'
  cvt_unknown        = { 'Unit name "$1" is not known'              , 'unknown unit'
  cvt_should_be     = { '$1'                                        , 'ambiguous unit'
  cvt_mismatch       = { 'Cannot convert "$1" to "$2"'              , 'unit mismatch'
  cvt_bug_convert    = { 'Bug: Cannot convert between specified units', 'bug, ask for help'
  cvt_lookup         = { 'Unit "$1" is incorrectly defined'         , 'bug, ask for help'

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}

-- Text to join input value/unit with output value/unit.
local disp_joins = {
  -- [1]=before output, [2]=after output, [3]=between outputs in a combination; default
  -- [wantname] gives default abbr=off
  ["or"] = { " or " , "" , " or " , wantname = true },
  ["sqbr-sp"] = { " [" , "]" },
  ["sqbr-nbsp"] = { "&nbsp;[" , "]" },
  ["comma"] = { " , " , "" , " , " },
  ["slash-sp"] = { " / " , "" , wantname = true },
  ["slash-nbsp"] = { "&nbsp;/ " , "" , wantname = true },
  ["slash-nosp"] = { "/" , "" , wantname = true },
  ["b"] = { " (" , ")" },
  ["(or)"] = { " (" , ")" , " or " },
  ["br"] = { "<br />" , "" , wantname = true },
  ["br()"] = { "<br />(" , ")" , wantname = true },
}

-- Text to separate values in a range.
local range_types = {
  -- Specifying a table requires either:
  -- * "off" and "on" values (for "abbr=off" and "abbr=on"), or
  -- * "input" and "output" values (for LHS and RHS);
  -- other fields are optional.
  -- When "adj=on|abbr=off" applies, spaces in range text are replaced with hyphens.
  -- With "exception = true", that also occurs with "adj=on|abbr=on".
  -- If "adj" is defined here, that text (unchanged) is used with "adj=on".
  ["+"] = " + " ,
  [","] = " ,&nbsp;" ,
  [", and"] = " , and " ,
  [", or"] = " , or " ,
  ["by"] = " by " ,
  ["-"] = " - " ,
  ["to about"] = " to about " ,
  ["and"] = { off = " and " , on = " and " , exception = true },
  ["and(-)"] = { input = " and " , output = "-" },
  ["or"] = { off = " or " , on = " or " , exception = true },
  ["to"] = { off = " to " , on = " to " , exception = true },
  ["to(-)"] = { input = "&nbsp;to " , output = "-" },
  ["+/-"] = { off = "&nbsp;±&nbsp;" , on = "&nbsp;±&nbsp;" , adj = "&nbsp;±&nbsp;" ,
  ["by(x)"] = { input = " by " , output = " x&nbsp;" , out_range_x = true },
  ["x"] = { off = " by " , on = " x&nbsp;" , abbr_range_x = true },
  ["xx"] = "&nbsp;x&nbsp;" ,
  ["*"] = " x " ,
  ["/"] = "&thinsp;/&thinsp;" , -- for a table of high/low temperatures with {{
}

local range_aliases = {
  -- ["alternative name for a range"] = "standard range name"
  ["-"] = " - " ,
  ["&ndash;"] = " - " ,
  ["x"] = " x " ,
  ["&times;"] = " x " ,
  ["±"] = " +/- " ,
  ["&plusmn;"] = " +/- " ,
}

-- Convert accepts range text delimited with whitespace, for example, {{convert|1 to 2|ft}}
-- In addition, the following "words" are accepted without spaces, for example, {{convert|
-- Words must be in correct order for searching, for example, 'x' after 'xx'.

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local range_words = { '-', '-', 'xx', 'x', '*' }

local ranges = {
    types = range_types,
    aliases = range_aliases,
    words = range_words,
}

-- Valid option names.
local en_option_name = {
    -- ["local text for option name"] = "en name used in this module"
    ["$"] = "$",
    ["abbr"] = "abbr",
    ["adj"] = "adj",
    ["altitude_ft"] = "altitude_ft",
    ["altitude_m"] = "altitude_m",
    ["comma"] = "comma",
    ["debug"] = "debug",
    ["disp"] = "disp",
    ["frac"] = "frac",
    ["input"] = "input",
    ["lang"] = "lang",
    ["lk"] = "lk",
    ["order"] = "order",
    ["qid"] = "qid",
    ["qual"] = "qual",
    ["qualifier"] = "qual",
    ["round"] = "round",
    ["sigfig"] = "sigfig",
    ["sing"] = "adj", -- "sing" is an old alias for "adj"
    ["sortable"] = "sortable",
    ["sp"] = "sp",
    ["spell"] = "spell",
    ["stylein"] = "stylein",
    ["styleout"] = "styleout",
    ["tracking"] = "tracking",
}

-- Valid option values.
-- Convention: parms.opt_xxx refers to an option that is set here
-- (not intended to be set by the template which invokes this module).
-- Example: At enwiki, "abbr" includes:
-- ["values"] = "opt_values"
-- As a result, if the template uses abbr=values, Module:Convert sets:
--     parms["opt_values"] = true
--     parms["abbr"] = nil
-- Therefore parms.abbr will be nil, or will have one of the listed values
-- that do not start with "opt_".
-- An option value of form "xxx?" is the same as "xxx" but shows the input as deprecated.
local en_option_value = {
    ["$"] = 'TEXT', -- TEXT should be a currency symbol that will }
    ["abbr"] = {
        -- ["local text for option value"] = "en value used in this module"
        ["def"] = "", -- ignored (some wrapper templates call co
        ["h"] = "on", -- abbr=on + use "h" for hand unit (default
        ["hh"] = "opt_hand_hh", -- abbr=on + use "hh" for hand unit
        ["in"] = "in", -- use symbol for LHS unit
        ["none"] = "off", -- old name for "off"
        ["off"] = "off", -- use name for all units
        ["on"] = "on", -- use symbol for all units
        ["out"] = "out", -- use symbol for RHS unit (default)
    }
}

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    ["unit"] = "unit",          -- abbr=on but abbreviate units only: e6km
    ["values"] = "opt_values",  -- show only input and output numbers, not
    ["~"] = "opt_also_symbol",  -- show input unit symbol as well as name
},
["adj"] = {
    ["mid"] = "opt_adjectival, opt_adj_mid",  -- adj=on with user-specified te:
    ["off"] = "",                             -- ignored (off is the default)
    ["on"] = "opt_adjectival",               -- unit name is singular and hyphenated
    ["pre"] = "opt_one_preunit",            -- user-specified text before input unit
    ["ri0"] = "opt_ri=0",                   -- round input with precision = 0
    ["ri1"] = "opt_ri=1",                   -- round input with precision = 1
    ["ri2"] = "opt_ri=2",                   -- round input with precision = 2
    ["ri3"] = "opt_ri=3",                   -- round input with precision = 3
},
["altitude_ft"] = 'INTEGER',
["altitude_m"] = 'INTEGER',
["comma"] = {
    ["5"] = "opt_comma5",                   -- only use numsep grouping if 5 or more d:
    ["gaps"] = "opt_gaps",                  -- use gaps, not numsep, to separate group:
    ["gaps3"] = "opt_gaps, opt_gaps3",      -- group only in threes rather than de:
    ["off"] = "opt_nocomma",               -- no numsep in input or output numbers
},
["debug"] = {
    ["yes"] = "opt_sortable_debug",        -- make the normally hidden sort key visib:
},
["disp"] = {
    ["5"] = "opt_round=5?",                 -- round output value to nearest 5
    ["b"] = "b",                            -- join: '(...)'
    ["(or)"] = "(or)",                      -- join: '(...)' with 'or' between outputs
    ["br"] = "br",                          -- join: '<br />'
    ["br()"] = "br()",                      -- join: '<br />(...)'
    ["comma"] = "comma",                    -- join: ','
    ["flip"] = "opt_flip",                  -- reverse order of input/output
    ["number"] = "opt_output_number_only",  -- display output value (not input
    ["or"] = "or",                          -- join: 'or'
    ["out"] = "opt_output_only",
    ["output number only"] = "opt_output_number_only",
    ["output only"] = "opt_output_only",
    ["preunit"] = "opt_two_preunits",      -- user-specified text before input a:
    ["sqbr"] = "sqbr",                     -- join: '[...]'
    ["table"] = "opt_table",                -- output is suitable for a table cell wit:
    ["tablecen"] = "opt_tablecen",         -- output is suitable for a table cell wit:
    ["unit"] = "opt_input_unit_only",      -- display input symbol/name (not output
    ["unit or text"] = "opt_input_unit_only, opt_ignore_error", -- display inp:
    ["unit2"] = "opt_output_unit_only",
    ["x"] = "x",                          -- join: <first>...<second> (user-specifie:
},
["frac"] = 'INTEGER',
["input"] = 'TEXT',                       -- TEXT should be value<space><unitcode> or <
["lang"] = {
    ["en"] = "opt_lang_en",                 -- use en digits for numbers, regardless o:
    ["local"] = "opt_lang_local",          -- use local digits for numbers (default, :
},
["lk"] = {
    ["in"] = "in",                         -- link LHS unit name or symbol
    ["off"] = "off",                       -- do not link: same as default except for
    ["on"] = "on",                         -- link all unit names or symbols (but not
    ["out"] = "out",                       -- link RHS unit name or symbol
},
["order"] = {
    ["flip"] = "opt_flip",                  -- reverse order of input/output

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        ["out"] = "opt_order_out",      -- do not show input; instead, use order in
    },
    ["qid"] = 'TEXT',                  -- TEXT should be a Wikidata Q item identifier
    ["qual"] = 'TEXT',                 -- TEXT should be a Wikidata Q item identifier
    ["round"] = {
        ["0.5"] = "opt_round=0.5",    -- round output value to nearest 0.5
        ["5"] = "opt_round=5",        -- round output value to nearest 5
        ["10"] = "opt_round=10",      -- round output value to nearest 10 (same as
        ["25"] = "opt_round=25",      -- round output value to nearest 25
        ["50"] = "opt_round=50",      -- round output value to nearest 50
        ["each"] = "opt_round_each",  -- using default precision in a range, row
    },
    ["sigfig"] = 'INTEGER',
    ["sortable"] = {
        ["off"] = "",                  -- ignored (off is the default)
        ["on"] = "opt_sortable_on",   -- output sort key for use in a sortable table
        ["debug"] = "opt_sortable_on, opt_sortable_debug", -- |sortable=debug is for
    },
    ["sp"] = {
        ["us"] = "opt_sp_us",         -- use U.S. spelling (like "meter" instead
    },
    ["spell"] = {
        -- only English spelling is supported; not scientific
        ["in"] = "opt_spell_in",      -- spell input value in words
        ["In"] = "opt_spell_in, opt_spell_upper", -- spell input value
        ["on"] = "opt_spell_in, opt_spell_out", -- spell input and
        ["On"] = "opt_spell_in, opt_spell_out, opt_spell_upper", -- same, with first
    },
    ["stylein"] = 'TEXT',
    ["styleout"] = 'TEXT',
    ["tracking"] = 'TEXT',
}

local titles = {
    ["frac"] = "Fraction/styles.css",
    ["sfrac"] = "Sfrac/styles.css",
}

return {
    SIprefixes = SIprefixes,
    all_categories = all_categories,
    all_messages = all_messages,
    currency = { ['$'] = true, ['£'] = true, ['€'] = true, [''] = true, [''] = true, [
    customary_units = customary_units,
    disp_joins = disp_joins,
    en_option_name = en_option_name,
    en_option_value = en_option_value,
    eng_scales = eng_scales,
    ranges = ranges,
    titles = titles,
}

```