

Modul:Convert/extra

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Seite von

Inhaltsverzeichnis

- [1. Modul:Convert/extra](#)
- [2. Modul:Convert/extra/Doku](#)
- [3. Modul:Convert/extra/sandbox](#)

Modul:Convert/extra

This module can be used to quickly add a new unit for use with [Vorlage:TI](#). When satisfied that a unit is working correctly, ask at [Module talk:Convert](#) for the unit to be moved to the permanent list of units.

See [Template:Convert/unit sandbox](#) for a good way to prepare unit definitions that can be copied into this page.

The following extracts from [Module:Convert/data](#) show examples that could be used to define a new unit. Any number of spaces can be used where blanks are shown in the following.

[Vorlage:Collapse top](#)

```
-- These are EXAMPLES on the documentation page. Scroll down to see the module content.
local extra_units = {
  -- Similar to a redirect: "sqm" is an alias for "m2".
  -- {{convert|1.5|m2|sp=us}} 1.5 square meters (16 sq ft)
  -- {{convert|1.5|sqm|sp=us}} 1.5 square meters (16 sq ft)
  ["sqm"] = {
    target    = "m2",
  },
  -- A simple unit, showing the minimum that is required.
  -- The "ha" is the unit code used to identify the unit:
  -- {{convert|1.5|ha}} 1.5 hectares (3.7 acres)
  ["ha"] = {
    name1     = "hectare",
    symbol    = "ha",
    utype     = "area",
    scale     = 10000,
    default   = "acre",
  },
  -- A unit which accepts an SI prefix. There is no "name1" field because it
  -- has to be constructed (mJ gives "millijoule"; MJ gives "megajoule").
  -- {{convert|125|kJ}} 125 kilojoules (30,000 cal)
  ["J"] = {
    _name1    = "joule",
    _symbol   = "J",
    utype     = "energy",
    scale     = 1,
    prefixes  = 1,
  },
}
```

```

        default = "cal",
        link     = "Joule",
    },
-- A unit where US and plural names are required.
-- {{convert|125|cm/s2}} 125 centimetres per second squared (4.1 ft/s2)
["cm/s2"] = {
    name1     = "centimetre per second squared",
    name1_us  = "centimeter per second squared",
    name2     = "centimetres per second squared",
    name2_us  = "centimeters per second squared",
    symbol    = "cm/s<sup>2</sup>",
    utype     = "acceleration",
    scale    = 0.01,
    default   = "ft/s2",
    link     = "Gal (unit)",
},
-- A "per" unit is defined as the ratio of two other units.
-- {{convert|125|g/cm3}} 125 grams per cubic centimetre (4.5 lb/cu in)
["g/cm3"] = {
    per       = { "g", "cm3" },
    utype    = "density",
    default   = "lb/cuin",
},
-- If the automatic "per" link is not wanted, a link can be specified.
-- {{convert|125|g/cm3|lk=on|disp=unit}} [[gram]]s per [[cubic centimetre]]
-- {{convert|125|g/m3|lk=on|disp=unit}} [[density|grams per cubic metre]]
["g/m3"] = {
per = { "g", "m3" },
utype = "density",
default = "lb/cuyd",
link = "density",
},
-- Characters "$" and "£" are recognized as currency symbols.
-- {{convert|125|$/acre}} $125 per acre ($310/ha)
["$$/acre"] = {
    per       = { "$", "acre" },
    utype    = "cost $ per unit area",
    default   = "$/ha",
},
-- An output unit can be defined as a combination of existing units.
-- {{convert|2|ha|ft2 m2}} 2 hectares (220,000 sq ft; 20,000 m2)
-- Any number of output units can be specified.
-- NOTE: There may be no need to define a combination because a convert
--       can specify the output by joining unit codes with "+":
-- {{convert|1.2|acre|ft2+yd2+m2}} 1.2 acres (52,000 sq ft; 5,800 sq yd; 4,900 m2)
["ft2 m2"] = {
    combination = { "ft2", "m2" },
    utype       = "area",
},
-- An output unit can be defined using subunits (from least to most significant).
-- {{convert|90|in|ydf tin}} 90 inches (2 yd 1 ft 6 in)
["ydf tin"] = {
    combination = { "in", "ft", "yd" },
    multiple    = { 12, 3 },
    utype       = "length",
},
}

```

[Vorlage:Collapse bottom](#)

Field Description

symbol	Unit identifier used when abbr=on is in effect.
name1	Singular name of the unit used when abbr=off is in effect.
name2	Plural name of the unit; not required if it is the same as name1 plus "s".

`name1_us` Singular name when `sp=us` is in effect; not required if the same as `name1`.
`name2_us` Plural name when `sp=us` is in effect; not required if the same as `name1_us` plus "s".
`utype` Unit type; must be exactly the same as the `utype` of any other unit used in a conversion.
`scale` Number of base units in the unit being defined.
`default` Unit code of the default output used when no output unit is specified in a conversion.
`target` Unit code of an existing unit (the unit being defined "redirects" to the existing unit).
`prefixes` Use 1 if an SI prefix is accepted; 2 is used for m², and 3 is used for m³.
`link` Article title used when `lk=on` is in effect; not required if it is the same as `name1`.

[Vorlage:Anchor](#)

```
-- Extra conversion data used by Module:Convert.
--
-- [[Module:Convert/data]] defines all units and is transcluded in all pages
-- where [[Module:Convert]] is used. Testing new units by editing that module
-- would invalidate the cache for all affected pages.
--
-- For quick changes and experiments with new units, this module can be edited.
-- Since this module is transcluded in only a small number of pages, changes
-- should cause little server overhead and should propagate quickly.
--
-- If a unit is defined in the data module, any definition here is ignored,
-- so defining the same unit in both modules is not an error.
-- A unit defined here can refer to units that are also defined here, and
-- can refer to units defined in the data module.
--
-- Periodically, those extra units that are wanted permanently can be removed
-- from here after being added to [[Module:Convert/data]].

local extra_units = {
}

return { extra_units = extra_units }
```

Modul:Convert/extra/Doku

Dies ist die Dokumentationsseite für [Modul:Convert/extra](#)

This module can be used to quickly add a new unit for use with [Vorlage:Tl](#). When satisfied that a unit is working correctly, ask at [Module talk:Convert](#) for the unit to be moved to the permanent list of units.

See [Template:Convert/unit sandbox](#) for a good way to prepare unit definitions that can be copied into this page.

The following extracts from [Module:Convert/data](#) show examples that could be used to define a new unit. Any number of spaces can be used where blanks are shown in the following.

[Vorlage:Collapse top](#)

```
-- These are EXAMPLES on the documentation page. Scroll down to see the module content.
local extra_units = {
```

```

-- Similar to a redirect: "sqm" is an alias for "m2".
-- {{convert|1.5|m2|sp=us}} 1.5 square meters (16 sq ft)
-- {{convert|1.5|sqm|sp=us}} 1.5 square meters (16 sq ft)
["sqm"] = {
    target    = "m2",
},
-- A simple unit, showing the minimum that is required.
-- The "ha" is the unit code used to identify the unit:
-- {{convert|1.5|ha}} 1.5 hectares (3.7 acres)
["ha"] = {
    name1     = "hectare",
    symbol    = "ha",
    utype     = "area",
    scale     = 10000,
    default   = "acre",
},
-- A unit which accepts an SI prefix. There is no "name1" field because it
-- has to be constructed (mJ gives "millijoule"; MJ gives "megajoule").
-- {{convert|125|kJ}} 125 kilojoules (30,000 cal)
["J"] = {
    _name1    = "joule",
    _symbol   = "J",
    utype     = "energy",
    scale     = 1,
    prefixes  = 1,
    default   = "cal",
    link      = "Joule",
},
-- A unit where US and plural names are required.
-- {{convert|125|cm/s2}} 125 centimetres per second squared (4.1 ft/s2)
["cm/s2"] = {
    name1     = "centimetre per second squared",
    name1_us  = "centimeter per second squared",
    name2     = "centimetres per second squared",
    name2_us  = "centimeters per second squared",
    symbol    = "cm/s<sup>2</sup>",
    utype     = "acceleration",
    scale     = 0.01,
    default   = "ft/s2",
    link      = "Gal (unit)",
},
-- A "per" unit is defined as the ratio of two other units.
-- {{convert|125|g/cm3}} 125 grams per cubic centimetre (4.5 lb/cu in)
["g/cm3"] = {
    per       = { "g", "cm3" },
    utype     = "density",
    default   = "lb/cuin",
},
-- If the automatic "per" link is not wanted, a link can be specified.
-- {{convert|125|g/cm3|lk=on|disp=unit}} [[gram]]s per [[cubic centimetre]]
-- {{convert|125|g/m3|lk=on|disp=unit}} [[density|grams per cubic metre]]
["g/m3"] = {
    per       = { "g", "m3" },
    utype     = "density",
    default   = "lb/cuyd",
    link      = "density",
},
-- Characters "$" and "£" are recognized as currency symbols.
-- {{convert|125|$/acre}} $125 per acre ($310/ha)
["$$/acre"] = {
    per       = { "$", "acre" },
    utype     = "cost $ per unit area",
    default   = "$/ha",
},
-- An output unit can be defined as a combination of existing units.
-- {{convert|2|ha|ft2 m2}} 2 hectares (220,000 sq ft; 20,000 m2)
-- Any number of output units can be specified.

```

```

-- NOTE: There may be no need to define a combination because a convert
--       can specify the output by joining unit codes with "+":
-- {{convert|1.2|acre|ft2+yd2+m2}} 1.2 acres (52,000 sq ft; 5,800 sq yd; 4,900 m²)
["ft2 m2"] = {
    combination = { "ft2", "m2" },
    utype       = "area",
},
-- An output unit can be defined using subunits (from least to most significant).
-- {{convert|90|in|ydftin}} 90 inches (2 yd 1 ft 6 in)
["ydftin"] = {
    combination = { "in", "ft", "yd" },
    multiple    = { 12, 3 },
    utype       = "length",
},
}

```

[Vorlage:Collapse bottom](#)

Field Description

symbol	Unit identifier used when <code>abbr=on</code> is in effect.
name1	Singular name of the unit used when <code>abbr=off</code> is in effect.
name2	Plural name of the unit; not required if it is the same as <code>name1</code> plus "s".
name1_us	Singular name when <code>sp=us</code> is in effect; not required if the same as <code>name1</code> .
name2_us	Plural name when <code>sp=us</code> is in effect; not required if the same as <code>name1_us</code> plus "s".
utype	Unit type; must be exactly the same as the <code>utype</code> of any other unit used in a conversion.
scale	Number of base units in the unit being defined.
default	Unit code of the default output used when no output unit is specified in a conversion.
target	Unit code of an existing unit (the unit being defined "redirects" to the existing unit).
prefixes	Use 1 if an SI prefix is accepted; 2 is used for m ² , and 3 is used for m ³ .
link	Article title used when <code>lk=on</code> is in effect; not required if it is the same as <code>name1</code> .

[Vorlage:Anchor](#)

Modul:Convert/extra/sandbox

Die Dokumentation für dieses Modul kann unter [Modul:Convert/extra/sandbox/Doku](#) erstellt werden

```

-- Extra conversion data used by Module:Convert.
--
-- [[Module:Convert/data]] defines all units and is transcluded in all pages
-- where [[Module:Convert]] is used. Testing new units by editing that module
-- would invalidate the cache for all affected pages.
--
-- For quick changes and experiments with new units, this module can be edited.
-- Since this module is transcluded in only a small number of pages, changes
-- should cause little server overhead and should propagate quickly.
--
-- If a unit is defined in the data module, any definition here is ignored,
-- so defining the same unit in both modules is not an error.
-- A unit defined here can refer to units that are also defined here, and
-- can refer to units defined in the data module.
--

```

```
-- Periodically, those extra units that are wanted permanently can be removed  
-- from here after being added to [[Module:Convert/data]].
```

```
local extra_units = {  
}
```

```
return { extra_units = extra_units }
```