Inhaltsverzeichnis

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Modul:BrewerColors

Used by **Vorlage:Tl** and **Vorlage:Tl**

To translate or review the translation of the module to your language, edit Data:I18n/BrewerColors.tab carefully.

Function ShowColors

Code	Result
{{#invoke:BrewerColors|ShowColors|Oranges|5}}	**Lua-Fehler: bad argument #1 to "get" (not a valid title)**
{{#invoke:BrewerColors|ShowColors|Oranges_i|5}}	**Lua-Fehler: bad argument #1 to "get" (not a valid title)**
{{BrewerColors|Greens|9}}	Vorlage:BrewerColors
{{#invoke:BrewerColors|ShowColors|YlGn|3|-}}	**Lua-Fehler: bad argument #1 to "get" (not a valid title)**
{{#invoke:BrewerColors|ShowColors|YlGn|3|a}}	**Lua-Fehler: bad argument #1 to "get" (not a valid title)**

Function Legends

```
{{#invoke:BrewerColors|Legends|Oranges|5|30em}}
```

produces:

Lua-Fehler: expandTemplate: template "div col" does not exist

```
{{#invoke:BrewerColors|Legends|Greens|3||--Without data|One|Two|Three}}
```

produces:

Lua-Fehler: bad argument #1 to "get" (not a valid title)

```
local p = {}

local CFCM = require "Module:ComplForColorModules"
local TNTT = require "Module:TNTTools"
local ARG = require "Module:Arguments"
local I18n = 'BrewerColors'

--[[
TRANSLATION, in :Commons:Data:I18n/BrewerColors.tab
```

```
local RS_ColorNumInvalid = 'El nombre de colors ($1) està fora del rang'
local RS_ColorNameInvalid = 'El nom del color ($1) no és vàlid'
--]]
local RS_ColorNumInvalid = 'ColorNumInvalid'
local RS_ColorNameInvalid = 'ColorNameInvalid'

local function I18nStr (S, ...)
        return TNTT.GetMsgP (I18n, S, {...})
end

-- This product includes ColorName specifications and designs developed by Cynthi
local ColorYlGn = {
    {"f7fcb9","addd8e","31a354"},
    {"ffffcc","c2e699","78c679","238443"},
    {"ffffcc","c2e699","78c679","31a354","006837"},
    {"ffffcc","d9f0a3","addd8e","78c679","31a354","006837"},
    {"ffffcc","d9f0a3","addd8e","78c679","41ab5d","238443","005a32"},
    {"ffffe5","f7fcb9","d9f0a3","addd8e","78c679","41ab5d","238443","005a32"},
    {"ffffe5","f7fcb9","d9f0a3","addd8e","78c679","41ab5d","238443","006837","004
    }
local ColorYlGnBu = {
    {"edf8b1","7fcdbb","2c7fb8"},
    {"ffffcc","a1dab4","41b6c4","225ea8"},
    {"ffffcc","a1dab4","41b6c4","2c7fb8","253494"},
    {"ffffcc","c7e9b4","7fcdbb","41b6c4","2c7fb8","253494"},
    {"ffffcc","c7e9b4","7fcdbb","41b6c4","1d91c0","225ea8","0c2c84"},
    {"ffffd9","edf8b1","c7e9b4","7fcdbb","41b6c4","1d91c0","225ea8","0c2c84"},
    {"ffffd9","edf8b1","c7e9b4","7fcdbb","41b6c4","1d91c0","225ea8","253494","081
    }
local ColorGnBu = {
    {"e0f3db","a8ddb5","43a2ca"},
    {"f0f9e8","bae4bc","7bccc4","2b8cbe"},
    {"f0f9e8","bae4bc","7bccc4","43a2ca","0868ac"},
    {"f0f9e8","ccebc5","a8ddb5","7bccc4","43a2ca","0868ac"},
    {"f0f9e8","ccebc5","a8ddb5","7bccc4","4eb3d3","2b8cbe","08589e"},
    {"f7fcf0","e0f3db","ccebc5","a8ddb5","7bccc4","4eb3d3","2b8cbe","08589e"},
    {"f7fcf0","e0f3db","ccebc5","a8ddb5","7bccc4","4eb3d3","2b8cbe","0868ac","084
    }
local ColorBuGn = {
    {"e5f5f9","99d8c9","2ca25f"},
    {"edf8fb","b2e2e2","66c2a4","238b45"},
    {"edf8fb","b2e2e2","66c2a4","2ca25f","006d2c"},
    {"edf8fb","ccece6","99d8c9","66c2a4","2ca25f","006d2c"},
    {"edf8fb","ccece6","99d8c9","66c2a4","41ae76","238b45","005824"},
    {"f7fcfd","e5f5f9","ccece6","99d8c9","66c2a4","41ae76","238b45","005824"},
    {"f7fcfd","e5f5f9","ccece6","99d8c9","66c2a4","41ae76","238b45","006d2c","004
    }
local ColorPuBuGn = {
    {"ece2f0","a6bddb","1c9099"},
    {"f6eff7","bdc9e1","67a9cf","02818a"},
    {"f6eff7","bdc9e1","67a9cf","1c9099","016c59"},
    {"f6eff7","d0d1e6","a6bddb","67a9cf","1c9099","016c59"},
    {"f6eff7","d0d1e6","a6bddb","67a9cf","3690c0","02818a","016450"},
    {"fff7fb","ece2f0","d0d1e6","a6bddb","67a9cf","3690c0","02818a","016450"},
    {"fff7fb","ece2f0","d0d1e6","a6bddb","67a9cf","3690c0","02818a","016c59","014
    }
local ColorPuBu = {
    {"ece7f2","a6bddb","2b8cbe"},
    {"f1eef6","bdc9e1","74a9cf","0570b0"},
    {"f1eef6","bdc9e1","74a9cf","2b8cbe","045a8d"},
    {"f1eef6","d0d1e6","a6bddb","74a9cf","2b8cbe","045a8d"},
    {"f1eef6","d0d1e6","a6bddb","74a9cf","3690c0","0570b0","034e7b"},
    {"fff7fb","ece7f2","d0d1e6","a6bddb","74a9cf","3690c0","0570b0","034e7b"},
    {"fff7fb","ece7f2","d0d1e6","a6bddb","74a9cf","3690c0","0570b0","045a8d","023
```

```
    }
local ColorBuPu = {
    {"e0ecf4","9ebcda","8856a7"},
    {"edf8fb","b3cde3","8c96c6","88419d"},
    {"edf8fb","b3cde3","8c96c6","8856a7","810f7c"},
    {"edf8fb","bfd3e6","9ebcda","8c96c6","8856a7","810f7c"},
    {"edf8fb","bfd3e6","9ebcda","8c96c6","8c6bb1","88419d","6e016b"},
    {"f7fcfd","e0ecf4","bfd3e6","9ebcda","8c96c6","8c6bb1","88419d","6e016b"},
    {"f7fcfd","e0ecf4","bfd3e6","9ebcda","8c96c6","8c6bb1","88419d","810f7c","4d0
    }
local ColorRdPu = {
    {"fde0dd","fa9fb5","c51b8a"},
    {"feebe2","fbb4b9","f768a1","ae017e"},
    {"feebe2","fbb4b9","f768a1","c51b8a","7a0177"},
    {"feebe2","fcc5c0","fa9fb5","f768a1","c51b8a","7a0177"},
    {"feebe2","fcc5c0","fa9fb5","f768a1","dd3497","ae017e","7a0177"},
    {"fff7f3","fde0dd","fcc5c0","fa9fb5","f768a1","dd3497","ae017e","7a0177"},
    {"fff7f3","fde0dd","fcc5c0","fa9fb5","f768a1","dd3497","ae017e","7a0177","490
    }
local ColorPuRd = {
    {"e7e1ef","c994c7","dd1c77"},
    {"f1eef6","d7b5d8","df65b0","ce1256"},
    {"f1eef6","d7b5d8","df65b0","dd1c77","980043"},
    {"f1eef6","d4b9da","c994c7","df65b0","dd1c77","980043"},
    {"f1eef6","d4b9da","c994c7","df65b0","e7298a","ce1256","91003f"},
    {"f7f4f9","e7e1ef","d4b9da","c994c7","df65b0","e7298a","ce1256","91003f"},
    {"f7f4f9","e7e1ef","d4b9da","c994c7","df65b0","e7298a","ce1256","980043","670
    }
local ColorOrRd = {
    {"fee8c8","fdbb84","e34a33"},
    {"fef0d9","fdcc8a","fc8d59","d7301f"},
    {"fef0d9","fdcc8a","fc8d59","e34a33","b30000"},
    {"fef0d9","fdd49e","fdbb84","fc8d59","e34a33","b30000"},
    {"fef0d9","fdd49e","fdbb84","fc8d59","ef6548","d7301f","990000"},
    {"fff7ec","fee8c8","fdd49e","fdbb84","fc8d59","ef6548","d7301f","990000"},
    {"fff7ec","fee8c8","fdd49e","fdbb84","fc8d59","ef6548","d7301f","b30000","7f0
    }
local ColorYlOrRd = {
    {"ffeda0","feb24c","f03b20"},
    {"ffffb2","fecc5c","fd8d3c","e31a1c"},
    {"ffffb2","fecc5c","fd8d3c","f03b20","bd0026"},
    {"ffffb2","fed976","feb24c","fd8d3c","f03b20","bd0026"},
    {"ffffb2","fed976","feb24c","fd8d3c","fc4e2a","e31a1c","b10026"},
    {"ffffcc","ffeda0","fed976","feb24c","fd8d3c","fc4e2a","e31a1c","b10026"},
    {"ffffcc","ffeda0","fed976","feb24c","fd8d3c","fc4e2a","e31a1c","bd0026","800
    }
local ColorYlOrBr = {
    {"fff7bc","fec44f","d95f0e"},
    {"ffffd4","fed98e","fe9929","cc4c02"},
    {"ffffd4","fed98e","fe9929","d95f0e","993404"},
    {"ffffd4","fee391","fec44f","fe9929","d95f0e","993404"},
    {"ffffd4","fee391","fec44f","fe9929","ec7014","cc4c02","8c2d04"},
    {"fffff5","fff7bc","fee391","fec44f","fe9929","ec7014","cc4c02","8c2d04"},
    {"fffff5","fff7bc","fee391","fec44f","fe9929","ec7014","cc4c02","993404","662
    }
local ColorPurples = {
    {"efedf5","bcbddc","756bb1"},
    {"f2f0f7","cbc9e2","9e9ac8","6a51a3"},
    {"f2f0f7","cbc9e2","9e9ac8","756bb1","54278f"},
    {"f2f0f7","dadaeb","bcbddc","9e9ac8","756bb1","54278f"},
    {"f2f0f7","dadaeb","bcbddc","9e9ac8","807dba","6a51a3","4a1486"},
    {"fcfbfd","efedf5","dadaeb","bcbddc","9e9ac8","807dba","6a51a3","4a1486"},
    {"fcfbfd","efedf5","dadaeb","bcbddc","9e9ac8","807dba","6a51a3","54278f","3f0
    }
```

```
local ColorBlues = {
    {"deebf7","9ecae1","3182bd"},
    {"eff3ff","bdd7e7","6baed6","2171b5"},
    {"eff3ff","bdd7e7","6baed6","3182bd","08519c"},
    {"eff3ff","c6dbef","9ecae1","6baed6","3182bd","08519c"},
    {"eff3ff","c6dbef","9ecae1","6baed6","4292c6","2171b5","084594"},
    {"f7fbff","deebf7","c6dbef","9ecae1","6baed6","4292c6","2171b5","084594"},
    {"f7fbff","deebf7","c6dbef","9ecae1","6baed6","4292c6","2171b5","08519c","083
    }
local ColorGreens = {
    {"e5f5e0","a1d99b","31a354"},
    {"edf8e9","bae4b3","74c476","238b45"},
    {"edf8e9","bae4b3","74c476","31a354","006d2c"},
    {"edf8e9","c7e9c0","a1d99b","74c476","31a354","006d2c"},
    {"edf8e9","c7e9c0","a1d99b","74c476","41ab5d","238b45","005a32"},
    {"f7fcf5","e5f5e0","c7e9c0","a1d99b","74c476","41ab5d","238b45","005a32"},
    {"f7fcf5","e5f5e0","c7e9c0","a1d99b","74c476","41ab5d","238b45","006d2c","004
    }
local ColorOranges = {
    {"fee6ce","fdae6b","e6550d"},
    {"feedde","fdbe85","fd8d3c","d94701"},
    {"feedde","fdbe85","fd8d3c","e6550d","a63603"},
    {"feedde","fdd0a2","fdae6b","fd8d3c","e6550d","a63603"},
    {"feedde","fdd0a2","fdae6b","fd8d3c","f16913","d94801","8c2d04"},
    {"fff5eb","fee6ce","fdd0a2","fdae6b","fd8d3c","f16913","d94801","8c2d04"},
    {"fff5eb","fee6ce","fdd0a2","fdae6b","fd8d3c","f16913","d94801","a63603","7f2
    }
local ColorReds = {
    {"fee0d2","fc9272","de2d26"},
    {"fee5d9","fcae91","fb6a4a","cb181d"},
    {"fee5d9","fcae91","fb6a4a","de2d26","a50f15"},
    {"fee5d9","fcbba1","fc9272","fb6a4a","de2d26","a50f15"},
    {"fee5d9","fcbba1","fc9272","fb6a4a","ef3b2c","cb181d","99000d"},
    {"fff5f0","fee0d2","fcbba1","fc9272","fb6a4a","ef3b2c","cb181d","99000d"},
    {"fff5f0","fee0d2","fcbba1","fc9272","fb6a4a","ef3b2c","cb181d","a50f15","670
    }
local ColorGreys = {
    {"f0f0f0","bdbdbd","636363"},
    {"f7f7f7","cccccc","969696","525252"},
    {"f7f7f7","cccccc","969696","636363","252525"},
    {"f7f7f7","d9d9d9","bdbdbd","969696","636363","252525"},
    {"f7f7f7","d9d9d9","bdbdbd","969696","737373","525252","252525"},
    {"ffffff","f0f0f0","d9d9d9","bdbdbd","969696","737373","525252","252525"},
    {"ffffff","f0f0f0","d9d9d9","bdbdbd","969696","737373","525252","252525","000
    }
local ColorPuOr = {
    {"f1a340","f7f7f7","998ec3"},
    {"e66101","fdb863","b2abd2","5e3c99"},
    {"e66101","fdb863","f7f7f7","b2abd2","5e3c99"},
    {"b35806","f1a340","fee0b6","d8daeb","998ec3","542788"},
    {"b35806","f1a340","fee0b6","f7f7f7","d8daeb","998ec3","542788"},
    {"b35806","e08214","fdb863","fee0b6","d8daeb","b2abd2","8073ac","542788"},
    {"b35806","e08214","fdb863","fee0b6","f7f7f7","d8daeb","b2abd2","8073ac","542
    {"7f3b08","b35806","e08214","fdb863","fee0b6","d8daeb","b2abd2","8073ac","542
    {"7f3b08","b35806","e08214","fdb863","fee0b6","f7f7f7","d8daeb","b2abd2","807
    }
local ColorBrBG = {
    {"d8b365","f5f5f5","5ab4ac"},
    {"a6611a","dfc27d","80cdc1","018571"},
    {"a6611a","dfc27d","f5f5f5","80cdc1","018571"},
    {"8c510a","d8b365","f6e8c3","c7eae5","5ab4ac","01665e"},
    {"8c510a","d8b365","f6e8c3","f5f5f5","c7eae5","5ab4ac","01665e"},
    {"8c510a","bf812d","dfc27d","f6e8c3","c7eae5","80cdc1","35978f","01665e"},
    {"8c510a","bf812d","dfc27d","f6e8c3","f5f5f5","c7eae5","80cdc1","35978f","016
```

```
    {"543005","8c510a","bf812d","dfc27d","f6e8c3","c7eae5","80cdc1","35978f","010
    {"543005","8c510a","bf812d","dfc27d","f6e8c3","f5f5f5","c7eae5","80cdc1","359
    }
local ColorPRGn = {
    {"af8dc3","f7f7f7","7fbf7b"},
    {"7b3294","c2a5cf","a6dba0","008837"},
    {"7b3294","c2a5cf","f7f7f7","a6dba0","008837"},
    {"762a83","af8dc3","e7d4e8","d9f0d3","7fbf7b","1b7837"},
    {"762a83","af8dc3","e7d4e8","f7f7f7","d9f0d3","7fbf7b","1b7837"},
    {"762a83","9970ab","c2a5cf","e7d4e8","d9f0d3","a6dba0","5aae61","1b7837"},
    {"762a83","9970ab","c2a5cf","e7d4e8","f7f7f7","d9f0d3","a6dba0","5aae61","1b7
    {"40004b","762a83","9970ab","c2a5cf","e7d4e8","d9f0d3","a6dba0","5aae61","1b7
    {"40004b","762a83","9970ab","c2a5cf","e7d4e8","f7f7f7","d9f0d3","a6dba0","5aa
    }
local ColorPiYG = {
    {"e9a3c9","f7f7f7","a1d76a"},
    {"d01c8b","f1b6da","b8e186","4dac26"},
    {"d01c8b","f1b6da","f7f7f7","b8e186","4dac26"},
    {"c51b7d","e9a3c9","fde0ef","e6f5d0","a1d76a","4d9221"},
    {"c51b7d","e9a3c9","fde0ef","f7f7f7","e6f5d0","a1d76a","4d9221"},
    {"c51b7d","de77ae","f1b6da","fde0ef","e6f5d0","b8e186","7fbc41","4d9221"},
    {"c51b7d","de77ae","f1b6da","fde0ef","f7f7f7","e6f5d0","b8e186","7fbc41","4d9
    {"8e0152","c51b7d","de77ae","f1b6da","fde0ef","e6f5d0","b8e186","7fbc41","4d9
    {"8e0152","c51b7d","de77ae","f1b6da","fde0ef","f7f7f7","e6f5d0","b8e186","7fb
    }
local ColorRdBu = {
    {"ef8a62","f7f7f7","67a9cf"},
    {"ca0020","f4a582","92c5de","0571b0"},
    {"ca0020","f4a582","f7f7f7","92c5de","0571b0"},
    {"b2182b","ef8a62","fddbc7","d1e5f0","67a9cf","2166ac"},
    {"b2182b","ef8a62","fddbc7","f7f7f7","d1e5f0","67a9cf","2166ac"},
    {"b2182b","d6604d","f4a582","fddbc7","d1e5f0","92c5de","4393c3","2166ac"},
    {"b2182b","d6604d","f4a582","fddbc7","f7f7f7","d1e5f0","92c5de","4393c3","216
    {"67001f","b2182b","d6604d","f4a582","fddbc7","d1e5f0","92c5de","4393c3","216
    {"67001f","b2182b","d6604d","f4a582","fddbc7","f7f7f7","d1e5f0","92c5de","439
    }
local ColorRdGy = {
    {"ef8a62","ffffff","999999"},
    {"ca0020","f4a582","bababa","404040"},
    {"ca0020","f4a582","ffffff","bababa","404040"},
    {"b2182b","ef8a62","fddbc7","e0e0e0","999999","4d4d4d"},
    {"b2182b","ef8a62","fddbc7","ffffff","e0e0e0","999999","4d4d4d"},
    {"b2182b","d6604d","f4a582","fddbc7","e0e0e0","bababa","878787","4d4d4d"},
    {"b2182b","d6604d","f4a582","fddbc7","ffffff","e0e0e0","bababa","878787","4d4
    {"67001f","b2182b","d6604d","f4a582","fddbc7","e0e0e0","bababa","878787","4d4
    {"67001f","b2182b","d6604d","f4a582","fddbc7","ffffff","e0e0e0","bababa","878
    }
local ColorRdYlBu = {
    {"fc8d59","ffffbf","91bfdb"},
    {"d7191c","fdae61","abd9e9","2c7bb6"},
    {"d7191c","fdae61","ffffbf","abd9e9","2c7bb6"},
    {"d73027","fc8d59","fee090","e0f3f8","91bfdb","4575b4"},
    {"d73027","fc8d59","fee090","ffffbf","e0f3f8","91bfdb","4575b4"},
    {"d73027","f46d43","fdae61","fee090","e0f3f8","abd9e9","74add1","4575b4"},
    {"d73027","f46d43","fdae61","fee090","ffffbf","e0f3f8","abd9e9","74add1","457
    {"a50026","d73027","f46d43","fdae61","fee090","e0f3f8","abd9e9","74add1","457
    {"a50026","d73027","f46d43","fdae61","fee090","ffffbf","e0f3f8","abd9e9","74a
    }
local ColorSpectral = {
    {"fc8d59","ffffbf","99d594"},
    {"d7191c","fdae61","abdda4","2b83ba"},
    {"d7191c","fdae61","ffffbf","abdda4","2b83ba"},
    {"d53e4f","fc8d59","fee08b","e6f598","99d594","3288bd"},
    {"d53e4f","fc8d59","fee08b","ffffbf","e6f598","99d594","3288bd"},
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```
    {"d53e4f","f46d43","fdae61","fee08b","e6f598","abdda4","66c2a5","3288bd"},
    {"d53e4f","f46d43","fdae61","fee08b","ffffbf","e6f598","abdda4","66c2a5","328
    {"9e0142","d53e4f","f46d43","fdae61","fee08b","e6f598","abdda4","66c2a5","328
    {"9e0142","d53e4f","f46d43","fdae61","fee08b","ffffbf","e6f598","abdda4","66c
    }
local ColorRdYlGn = {
    {"fc8d59","ffffbf","91cf60"},
    {"d7191c","fdae61","a6d96a","1a9641"},
    {"d7191c","fdae61","ffffbf","a6d96a","1a9641"},
    {"d73027","fc8d59","fee08b","d9ef8b","91cf60","1a9850"},
    {"d73027","fc8d59","fee08b","ffffbf","d9ef8b","91cf60","1a9850"},
    {"d73027","f46d43","fdae61","fee08b","d9ef8b","a6d96a","66bd63","1a9850"},
    {"d73027","f46d43","fdae61","fee08b","ffffbf","d9ef8b","a6d96a","66bd63","1a9
    {"a50026","d73027","f46d43","fdae61","fee08b","d9ef8b","a6d96a","66bd63","1a9
    {"a50026","d73027","f46d43","fdae61","fee08b","ffffbf","d9ef8b","a6d96a","66b
    }
local ColorAccent = {
    {"7fc97f","beaed4","fdc086"},
    {"7fc97f","beaed4","fdc086","ffff99"},
    {"7fc97f","beaed4","fdc086","ffff99","386cb0"},
    {"7fc97f","beaed4","fdc086","ffff99","386cb0","f0027f"},
    {"7fc97f","beaed4","fdc086","ffff99","386cb0","f0027f","bf5b17"},
    {"7fc97f","beaed4","fdc086","ffff99","386cb0","f0027f","bf5b17","666666"},
    }
local ColorDark2 = {
    {"1b9e77","d95f02","7570b3"},
    {"1b9e77","d95f02","7570b3","e7298a"},
    {"1b9e77","d95f02","7570b3","e7298a","66a61e"},
    {"1b9e77","d95f02","7570b3","e7298a","66a61e","e6ab02"},
    {"1b9e77","d95f02","7570b3","e7298a","66a61e","e6ab02","a6761d"},
    {"1b9e77","d95f02","7570b3","e7298a","66a61e","e6ab02","a6761d","666666"},
    }
local ColorPaired = {
    {"a6cee3","1f78b4","b2df8a"},
    {"a6cee3","1f78b4","b2df8a","33a02c"},
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99"},
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c"},
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f"},
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f","ff7f00"},
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f","ff7f00","cab
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f","ff7f00","cab
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f","ff7f00","cab
    {"a6cee3","1f78b4","b2df8a","33a02c","fb9a99","e31a1c","fdbf6f","ff7f00","cab
    }
local ColorPastel1 = {
    {"fbb4ae","b3cde3","ccebc5"},
    {"fbb4ae","b3cde3","ccebc5","decbe4"},
    {"fbb4ae","b3cde3","ccebc5","decbe4","fed9a6"},
    {"fbb4ae","b3cde3","ccebc5","decbe4","fed9a6","ffffcc"},
    {"fbb4ae","b3cde3","ccebc5","decbe4","fed9a6","ffffcc","e5d8bd"},
    {"fbb4ae","b3cde3","ccebc5","decbe4","fed9a6","ffffcc","e5d8bd","fddaec"},
    {"fbb4ae","b3cde3","ccebc5","decbe4","fed9a6","ffffcc","e5d8bd","fddaec","f2f
    }
local ColorPastel2 = {
    {"b3e2cd","fdcdac","cbd5e8"},
    {"b3e2cd","fdcdac","cbd5e8","f4cae4"},
    {"b3e2cd","fdcdac","cbd5e8","f4cae4","e6f5c9"},
    {"b3e2cd","fdcdac","cbd5e8","f4cae4","e6f5c9","fff2ae"},
    {"b3e2cd","fdcdac","cbd5e8","f4cae4","e6f5c9","fff2ae","f1e2cc"},
    {"b3e2cd","fdcdac","cbd5e8","f4cae4","e6f5c9","fff2ae","f1e2cc","cccccc"},
    }
local ColorSet1 = {
    {"e41a1c","377eb8","4daf4a"},
    {"e41a1c","377eb8","4daf4a","984ea3"},
```

```
    {"e41a1c","377eb8","4daf4a","984ea3","ff7f00"},
    {"e41a1c","377eb8","4daf4a","984ea3","ff7f00","ffff33"},
    {"e41a1c","377eb8","4daf4a","984ea3","ff7f00","ffff33","a65628"},
    {"e41a1c","377eb8","4daf4a","984ea3","ff7f00","ffff33","a65628","f781bf"},
    {"e41a1c","377eb8","4daf4a","984ea3","ff7f00","ffff33","a65628","f781bf","999
    }
local ColorSet2 = {
    {"66c2a5","fc8d62","8da0cb"},
    {"66c2a5","fc8d62","8da0cb","e78ac3"},
    {"66c2a5","fc8d62","8da0cb","e78ac3","a6d854"},
    {"66c2a5","fc8d62","8da0cb","e78ac3","a6d854","ffd92f"},
    {"66c2a5","fc8d62","8da0cb","e78ac3","a6d854","ffd92f","e5c494"},
    {"66c2a5","fc8d62","8da0cb","e78ac3","a6d854","ffd92f","e5c494","b3b3b3"},
    }
local ColorSet3 = {
    {"8dd3c7","ffffb3","bebada"},
    {"8dd3c7","ffffb3","bebada","fb8072"},
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3"},
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462"},
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69"},
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69","fccde5"},
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69","fccde5","d9d
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69","fccde5","d9d
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69","fccde5","d9d
    {"8dd3c7","ffffb3","bebada","fb8072","80b1d3","fdb462","b3de69","fccde5","d9d
    }

function p.GetColors(ColorName, IsInv, N, CallError)
        local ColorFound = {}
        function GetC(ColorSet)
                if (N < 3) or (N > (table.getn(ColorSet)+2)) then
                        if CallError then
                                error (I18nStr(RS_ColorNumInvalid,tostring(N)), 0
                        end
                elseif IsInv then
                        for i=table.getn(ColorSet[N-2]), 1, -1  do
                                table.insert (ColorFound, '#'..ColorSet[N-2][i])
                        end
                else
                        for i=1, table.getn(ColorSet[N-2]) do
                                table.insert (ColorFound, '#'..ColorSet[N-2][i])
                        end
                end
        end
        local ColorNameL = string.lower (ColorName)
        if     ColorNameL == 'ylgn'                then GetC(ColorYlGn)
        elseif ColorNameL == 'ylgnbu'        then GetC(ColorYlGnBu)
        elseif ColorNameL == 'gnbu'                then GetC(ColorGnBu)
        elseif ColorNameL == 'bugn'                then GetC(ColorBuGn)
        elseif ColorNameL == 'pubugn'        then GetC(ColorPuBuGn)
        elseif ColorNameL == 'pubu'                then GetC(ColorPuBu)
        elseif ColorNameL == 'bupu'                then GetC(ColorBuPu)
        elseif ColorNameL == 'rdpu'                then GetC(ColorRdPu)
        elseif ColorNameL == 'purd'                then GetC(ColorPuRd)
        elseif ColorNameL == 'orrd'                then GetC(ColorOrRd)
        elseif ColorNameL == 'ylorrd'        then GetC(ColorYlOrRd)
        elseif ColorNameL == 'ylorbr'        then GetC(ColorYlOrBr)
        elseif ColorNameL == 'purples'        then GetC(ColorPurples)
        elseif ColorNameL == 'blues'        then GetC(ColorBlues)
        elseif ColorNameL == 'greens'        then GetC(ColorGreens)
        elseif ColorNameL == 'oranges'        then GetC(ColorOranges)
        elseif ColorNameL == 'reds'                then GetC(ColorReds)
        elseif ColorNameL == 'greys'        then GetC(ColorGreys)
        elseif ColorNameL == 'puor'                then GetC(ColorPuOr)
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```
        elseif ColorNameL == 'brbg'                then GetC(ColorBrBG)
        elseif ColorNameL == 'prgn'                then GetC(ColorPRGn)
        elseif ColorNameL == 'piyg'                then GetC(ColorPiYG)
        elseif ColorNameL == 'rdbu'                then GetC(ColorRdBu)
        elseif ColorNameL == 'rdgy'                then GetC(ColorRdGy)
        elseif ColorNameL == 'rdylbu'        then GetC(ColorRdYlBu)
        elseif ColorNameL == 'spectral'        then GetC(ColorSpectral)
        elseif ColorNameL == 'rdylgn'        then GetC(ColorRdYlGn)
        elseif ColorNameL == 'accent'        then GetC(ColorAccent)
        elseif ColorNameL == 'dark2'         then GetC(ColorDark2)
        elseif ColorNameL == 'paired'        then GetC(ColorPaired)
        elseif ColorNameL == 'pastel1'        then GetC(ColorPastel1)
        elseif ColorNameL == 'pastel2'        then GetC(ColorPastel2)
        elseif ColorNameL == 'set1'                then GetC(ColorSet1)
        elseif ColorNameL == 'set2'                then GetC(ColorSet2)
        elseif ColorNameL == 'set3'                then GetC(ColorSet3)
        else
                if CallError then
                        error (I18nStr (RS_ColorNameInvalid,ColorName), 0)
                end
        end
        return ColorFound
end

function p.ShowColors(frame)
        local args = ARG.getArgs(frame, {
                removeBlanks = false
        })
        local ColorName, IsInv = CFCM.ColorNameInv (args)
        local N = tonumber(args[2])
        local WriteColor = args[3] or ''
        local ColorFound = {}
        ColorFound = p.GetColors (ColorName, IsInv, N, true)
        local boxes = {}
        for i=1, table.getn(ColorFound) do
                table.insert(boxes, CFCM.Box(ColorFound[i],WriteColor))
        end
        return table.concat(boxes, " ")
end

function p.Legends(frame)
        local args = ARG.getArgs(frame, {
                removeBlanks = false
        })
        local ColorName, IsInv = CFCM.ColorNameInv (args)
        local N = tonumber(args[2])
        local ColWidth = args[3]
        local ColorFound = {}
        local Labels = {}
        local NLabels = 0
        local IsTemplate = true
        ColorFound = p.GetColors (ColorName, IsInv, N, true)
        Labels, NLabels, OutlineColor = CFCM.GetLabels (args, N, 4)
        return CFCM.LegendText (ColorFound, Labels, NLabels, ColWidth, IsTemplate
end

return p
```