

# Package: INBOtheme (via r-universe)

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**Type** Package

**Title** Themes for ggplot2

**Version** 0.6.1

**Description** Several themes for the ggplot2 package. Among others themes complying with the style guide for the Research Institute for Nature and Forest (INBO) and Elsevier journals.

**License** GPL-3

**URL** <https://inbo.github.io/INBOtheme/>

**BugReports** <https://github.com/inbo/INBOtheme/issues>

**Depends** R (>= 3.5.0)

**Imports** assertthat, colorspace, conflicted, ggplot2 (>= 3.4.0), grid, scales

**Suggests** cluster, colordistance, knitr, rmarkdown, testthat

**VignetteBuilder** knitr

**Config/checklist/communities** inbo

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---

colour\_blind\_distance    *Calculate a distance matrix between colours for colour blind people*

---

## Description

The function calculates the distance matrices for every option. Then aggregates the matrices into a single distance matrix.

## Usage

```
colour_blind_distance(
  colours,
  deutan = TRUE,
  protan = FALSE,
  tritan = FALSE,
```

```
    gray = FALSE,  
    fun = min,  
    method = "emd"  
  )
```

### Arguments

|         |                                                                              |
|---------|------------------------------------------------------------------------------|
| colours | a vector of colours                                                          |
| deutan  | correct for deuteranomaly (red - green colour blindness). Defaults to TRUE.  |
| protan  | correct for protanopia (red - green colour blindness). Defaults to FALSE.    |
| tritan  | correct for tritanopia (blue - yellow colour blindness). Defaults to FALSE.  |
| gray    | correct for monochromacy (unable to distinguish colours). Defaults to FALSE. |
| fun     | Function to aggregate different colour distance matrices.                    |
| method  | passed to <code>colordistance::getColorDistanceMatrix()</code>               |

---

|                 |                                                    |
|-----------------|----------------------------------------------------|
| colour_distance | <i>Calculate a distance matrix between colours</i> |
|-----------------|----------------------------------------------------|

---

### Description

Calculate a distance matrix between colours

### Usage

```
colour_distance(colours, method = "emd")
```

### Arguments

|         |                                                                |
|---------|----------------------------------------------------------------|
| colours | a vector of colours                                            |
| method  | passed to <code>colordistance::getColorDistanceMatrix()</code> |

---

|              |                                         |
|--------------|-----------------------------------------|
| demo_palette | <i>Demonstrate colours in a palette</i> |
|--------------|-----------------------------------------|

---

### Description

Create an image with a number of rectangles coloured along the input vector.

### Usage

```
demo_palette(colours)
```

### Arguments

|         |                     |
|---------|---------------------|
| colours | a vector of colours |
|---------|---------------------|

**See Also**

Other colours: [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

|                   |                             |
|-------------------|-----------------------------|
| inbo.2015.colours | <i>Deprecated functions</i> |
|-------------------|-----------------------------|

---

**Description**

These functions will be removed from INBOtheme in the future.

**Usage**

```
inbo.2015.colours(n)

switchColour(new_colour = inbo_steun_blauw)

vlaanderen.2015.colours(n)
```

**Arguments**

|            |                         |
|------------|-------------------------|
| n          | The number of colours   |
| new_colour | The new default colour. |

---

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| inbo_hoofd | <i>Colour according to the INBO style guide version &gt;= 2015</i> |
|------------|--------------------------------------------------------------------|

---

**Description**

Colour according to the INBO style guide as hexadecimal values.

- inbo\_hoofd
- inbo\_steun\_donkerroos
- inbo\_steun\_blauw
- inbo\_steun\_geelgroen
- inbo\_oranje
- inbo\_rood
- inbo\_bruinrood
- inbo\_grijs
- inbo\_lichtgrijs
- inbo\_grijsblauw
- inbo\_lichtblauw

- inbo\_achtergrond
- inbo\_munt
- inbo\_lichtgroen
- inbo\_donkergroen
- inbo\_groen
- inbo\_geelgr
- inbo\_oranje
- inbo\_geel
- inbo\_felrood
- inbo\_groen
- inbo\_kaki
- inbo\_oranjerood
- inbo\_donkerblauw

**Author(s)**

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

theme\_inbo2015()

Other colours: [demo\\_palette\(\)](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

inbo\_palette

*A Colour Palette According the INBO Style Guide Version >= 2015.*

---

**Description**

A Colour Palette According the INBO Style Guide Version >= 2015.

**Usage**

inbo\_palette(n)

**Arguments**

n                      The number of colours

**Value**

a vector of n hexadecimal values defining the colours.

**Author(s)**

Thierry Onkelinx, Oona Op de Weerdt, Nicole De Groof

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

margin

*Re-exported Function From ggplot2*


---

**Description**

See [ggplot2::margin\(\)](#) in ggplot2.

**Usage**

```
margin(t = 0, r = 0, b = 0, l = 0, unit = "pt")
```

**Arguments**

|            |                                                                                              |
|------------|----------------------------------------------------------------------------------------------|
| t, r, b, l | Dimensions of each margin. (To remember order, think trouble).                               |
| unit       | Default units of dimensions. Defaults to "pt" so it can be most easily scaled with the text. |

---

nara\_palette

*A Colour Palette for NARA reports.*


---

**Description**

Deprecated. Use [inbo\\_palette\(\)](#) instead.

**Usage**

```
nara_palette(n)
```

**Arguments**

|   |                       |
|---|-----------------------|
| n | The number of colours |
|---|-----------------------|

**Value**

a vector of n hexadecimal values defining the colours.

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

|               |                                              |
|---------------|----------------------------------------------|
| optimal_order | <i>Order variables to maximise contrasts</i> |
|---------------|----------------------------------------------|

---

**Description**

Start with variable which has the largest distance between all other variables. Then add the variable with the largest distance to the already selected variables.

**Usage**

```
optimal_order(distance, selected = character(0))
```

**Arguments**

|          |                                          |
|----------|------------------------------------------|
| distance | a square distance matrix                 |
| selected | optional vector of preselected variables |

**Value**

a vector variable names

---

|                 |                                      |
|-----------------|--------------------------------------|
| ordinal_palette | <i>Palette for ordinal variables</i> |
|-----------------|--------------------------------------|

---

**Description**

The colour ramps depends on the active ggplot2 theme.

**Usage**

```
ordinal_palette(n)
```

**Arguments**

|   |                       |
|---|-----------------------|
| n | The number of colours |
|---|-----------------------|

---

page\_height

*Standard dimensions for the Elsevier style guide*


---

### Description

Several standard dimensions for the Elsevier style guide -page\_height Maximal height of a figure (in inch). -page\_width Width of a figure covering two columns (in inch). -column\_width Width of a figure covering one column (in inch). -medium\_width Width of a figure covering 1.5 columns (in inch).

### See Also

theme\_elsevier()

---

scale\_colour\_discrete *redefine* ggplot2::scale\_colour\_discrete()

---

### Description

Selects the colours depending on the current set theme.

### Usage

scale\_colour\_discrete(..., type)

scale\_color\_discrete(..., type)

### Arguments

... Additional parameters passed on to the scale type,

type Ignored argument. Only present to match the arguments of ggplot2::scale\_fill\_discrete()

### Author(s)

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

### See Also

Other scales: [scale\\_colour\\_gradient\(\)](#), [scale\\_colour\\_gradient2\(\)](#), [scale\\_colour\\_viridis\\_d\(\)](#), [scale\\_fill\\_discrete\(\)](#), [scale\\_fill\\_gradient\(\)](#), [scale\\_fill\\_gradient2\(\)](#)

---

```
scale_colour_gradient redefine ggplot2::scale_colour_gradient()
```

---

## Description

Selects the colours depending on the current set theme.

## Usage

```
scale_colour_gradient(  
  ...,  
  low,  
  high,  
  space = "Lab",  
  na.value = "grey50",  
  guide = "colourbar",  
  aesthetics = "colour"  
)  
  
scale_color_gradient(  
  ...,  
  low,  
  high,  
  space = "Lab",  
  na.value = "grey50",  
  guide = "colourbar",  
  aesthetics = "colour"  
)
```

## Arguments

... Arguments passed on to [continuous\\_scale](#)

scale\_name **[Deprecated]** The name of the scale that should be used for error messages associated with this scale.

palette A palette function that when called with a numeric vector with values between 0 and 1 returns the corresponding output values (e.g., [scales::pal\\_area\(\)](#)).

breaks One of:

- NULL for no breaks
- [waiver\(\)](#) for the default breaks computed by the [transformation object](#)
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output (e.g., a function returned by [scales::extended\\_breaks\(\)](#)). Note that for position scales, limits are provided after scale expansion. Also accepts rlang [lambda](#) function notation.

minor\_breaks One of:

- NULL for no minor breaks
- `waiver()` for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks. Also accepts rlang `lambda` function notation. When the function has two arguments, it will be given the limits and major breaks.

`n.breaks` An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use NULL to use the default number of breaks given by the transformation.

`labels` One of:

- NULL for no labels
- `waiver()` for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See `?plot-math` for details.
- A function that takes the breaks as input and returns labels as output. Also accepts rlang `lambda` function notation.

`limits` One of:

- NULL to use the default scale range
- A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum
- A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang `lambda` function notation. Note that setting limits on positional scales will **remove** data outside of the limits. If the purpose is to zoom, use the `limit` argument in the coordinate system (see `coord_cartesian()`).

`rescaler` A function used to scale the input values to the range [0, 1]. This is always `scales::rescale()`, except for diverging and n colour gradients (i.e., `scale_colour_gradient2()`, `scale_colour_gradientn()`). The rescaler is ignored by position scales, which always use `scales::rescale()`. Also accepts rlang `lambda` function notation.

`oob` One of:

- Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang `lambda` function notation.
- The default (`scales::censor()`) replaces out of bounds values with NA.
- `scales::squish()` for squishing out of bounds values into range.
- `scales::squish_infinite()` for squishing infinite values into range.

`trans` **[Deprecated]** Deprecated in favour of `transform`.

`call` The call used to construct the scale for reporting messages.

`super` The super class to use for the constructed scale

low

Colour for the low end of the gradient

high

Colour for the high end of the gradient

|            |                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| space      | colour space in which to calculate gradient. Must be "Lab" - other values are deprecated.                                                                                                                                                                                             |
| na.value   | Colour to use for missing values                                                                                                                                                                                                                                                      |
| guide      | Type of legend. Use "colourbar" for continuous colour bar, or "legend" for discrete colour legend.                                                                                                                                                                                    |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the colour and fill aesthetics at the same time, via <code>aesthetics = c("colour", "fill")</code> . |

**Author(s)**

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

Other scales: [scale\\_colour\\_discrete\(\)](#), [scale\\_colour\\_gradient2\(\)](#), [scale\\_colour\\_viridis\\_d\(\)](#), [scale\\_fill\\_discrete\(\)](#), [scale\\_fill\\_gradient\(\)](#), [scale\\_fill\\_gradient2\(\)](#)

---

```
scale_colour_gradient2
```

```
  redefine ggplot2::scale_colour_gradient2()
```

---

**Description**

Selects the colours depending on the current set theme.

**Usage**

```
scale_colour_gradient2(
  ...,
  low,
  high,
  mid,
  midpoint = 0,
  space = "Lab",
  guide = "colourbar",
  na.value = "grey50",
  aesthetics = "colour"
)
```

```
scale_color_gradient2(
  ...,
  low,
  high,
  mid,
```

```

midpoint = 0,
space = "Lab",
guide = "colourbar",
na.value = "grey50",
aesthetics = "colour"
)

```

## Arguments

...

Arguments passed on to [continuous\\_scale](#)

**scale\_name** **[Deprecated]** The name of the scale that should be used for error messages associated with this scale.

**palette** A palette function that when called with a numeric vector with values between 0 and 1 returns the corresponding output values (e.g., [scales::pal\\_area\(\)](#)).

**breaks** One of:

- NULL for no breaks
- [waiver\(\)](#) for the default breaks computed by the [transformation object](#)
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output (e.g., a function returned by [scales::extended\\_breaks\(\)](#)). Note that for position scales, limits are provided after scale expansion. Also accepts rlang [lambda](#) function notation.

**minor\_breaks** One of:

- NULL for no minor breaks
- [waiver\(\)](#) for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks. Also accepts rlang [lambda](#) function notation. When the function has two arguments, it will be given the limits and major breaks.

**n.breaks** An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use NULL to use the default number of breaks given by the transformation.

**labels** One of:

- NULL for no labels
- [waiver\(\)](#) for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See [?plot-math](#) for details.
- A function that takes the breaks as input and returns labels as output. Also accepts rlang [lambda](#) function notation.

**limits** One of:

- NULL to use the default scale range
- A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum

- A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang `lambda` function notation. Note that setting limits on positional scales will **remove** data outside of the limits. If the purpose is to zoom, use the limit argument in the coordinate system (see `coord_cartesian()`).

**rescaler** A function used to scale the input values to the range [0, 1]. This is always `scales::rescale()`, except for diverging and n colour gradients (i.e., `scale_colour_gradient2()`, `scale_colour_gradientn()`). The rescaler is ignored by position scales, which always use `scales::rescale()`. Also accepts rlang `lambda` function notation.

**oob** One of:

- Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang `lambda` function notation.
- The default (`scales::censor()`) replaces out of bounds values with NA.
- `scales::squish()` for squishing out of bounds values into range.
- `scales::squish_infinite()` for squishing infinite values into range.

**trans** **[Deprecated]** Deprecated in favour of transform.

**call** The call used to construct the scale for reporting messages.

**super** The super class to use for the constructed scale

|            |                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| low        | Colour for the low end of the gradient                                                                                                                                                                                                                                                |
| high       | Colour for the high end of the gradient                                                                                                                                                                                                                                               |
| mid        | colour for mid point                                                                                                                                                                                                                                                                  |
| midpoint   | The midpoint (in data value) of the diverging scale. Defaults to 0.                                                                                                                                                                                                                   |
| space      | colour space in which to calculate gradient. Must be "Lab" - other values are deprecated.                                                                                                                                                                                             |
| guide      | Type of legend. Use "colourbar" for continuous colour bar, or "legend" for discrete colour legend.                                                                                                                                                                                    |
| na.value   | Colour to use for missing values                                                                                                                                                                                                                                                      |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the colour and fill aesthetics at the same time, via <code>aesthetics = c("colour", "fill")</code> . |

### Author(s)

Thierry Onkelinx, Oona Op de Weerdt, Nicole De Groof

### See Also

Other scales: `scale_colour_discrete()`, `scale_colour_gradient()`, `scale_colour_viridis_d()`, `scale_fill_discrete()`, `scale_fill_gradient()`, `scale_fill_gradient2()`

---

```
scale_colour_viridis_d
      redefine ggplot2::scale_colour_viridis_d()
```

---

## Description

Selects the colours depending on the current set theme.

## Usage

```
scale_colour_viridis_d(
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  option = "D",
  aesthetics = "colour"
)

scale_fill_viridis_d(
  ...,
  alpha = 1,
  begin = 0,
  end = 1,
  direction = 1,
  option = "D",
  aesthetics = "fill"
)
```

## Arguments

... Arguments passed on to [continuous\\_scale](#)

scale\_name **[Deprecated]** The name of the scale that should be used for error messages associated with this scale.

palette A palette function that when called with a numeric vector with values between 0 and 1 returns the corresponding output values (e.g., [scales::pal\\_area\(\)](#)).

breaks One of:

- NULL for no breaks
- [waiver\(\)](#) for the default breaks computed by the [transformation object](#)
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output (e.g., a function returned by [scales::extended\\_breaks\(\)](#)). Note that for position scales, limits are provided after scale expansion. Also accepts rlang [lambda](#) function notation.

minor\_breaks One of:

- NULL for no minor breaks
- `waiver()` for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks. Also accepts rlang `lambda` function notation. When the function has two arguments, it will be given the limits and major breaks.

n.breaks An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use NULL to use the default number of breaks given by the transformation.

labels One of:

- NULL for no labels
- `waiver()` for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See `?plot-math` for details.
- A function that takes the breaks as input and returns labels as output. Also accepts rlang `lambda` function notation.

limits One of:

- NULL to use the default scale range
- A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum
- A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang `lambda` function notation. Note that setting limits on positional scales will **remove** data outside of the limits. If the purpose is to zoom, use the limit argument in the coordinate system (see `coord_cartesian()`).

rescaler A function used to scale the input values to the range [0, 1]. This is always `scales::rescale()`, except for diverging and n colour gradients (i.e., `scale_colour_gradient2()`, `scale_colour_gradientn()`). The rescaler is ignored by position scales, which always use `scales::rescale()`. Also accepts rlang `lambda` function notation.

oob One of:

- Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang `lambda` function notation.
- The default (`scales::censor()`) replaces out of bounds values with NA.
- `scales::squish()` for squishing out of bounds values into range.
- `scales::squish_infinite()` for squishing infinite values into range.

trans **[Deprecated]** Deprecated in favour of transform.

call The call used to construct the scale for reporting messages.

super The super class to use for the constructed scale

alpha

The alpha transparency, a number in [0,1], see argument alpha in `hsv`.

|            |                                                                                                                                                                                                                                                                                                                                                                         |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| begin, end | The (corrected) hue in $[0, 1]$ at which the color map begins and ends.                                                                                                                                                                                                                                                                                                 |
| direction  | Sets the order of colors in the scale. If 1, the default, colors are ordered from darkest to lightest. If -1, the order of colors is reversed.                                                                                                                                                                                                                          |
| option     | A character string indicating the color map option to use. Eight options are available: <ul style="list-style-type: none"> <li>• "magma" (or "A")</li> <li>• "inferno" (or "B")</li> <li>• "plasma" (or "C")</li> <li>• "viridis" (or "D")</li> <li>• "cividis" (or "E")</li> <li>• "rocket" (or "F")</li> <li>• "mako" (or "G")</li> <li>• "turbo" (or "H")</li> </ul> |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the colour and fill aesthetics at the same time, via <code>aesthetics = c("colour", "fill")</code> .                                                                                   |

**Author(s)**

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

Other scales: `scale_colour_discrete()`, `scale_colour_gradient()`, `scale_colour_gradient2()`, `scale_fill_discrete()`, `scale_fill_gradient()`, `scale_fill_gradient2()`

Other scales: `scale_colour_discrete()`, `scale_colour_gradient()`, `scale_colour_gradient2()`, `scale_fill_discrete()`, `scale_fill_gradient()`, `scale_fill_gradient2()`

---

```
scale_fill_discrete    redefine ggplot2::scale_fill_discrete()
```

---

**Description**

Selects the colours depending on the current set theme.

**Usage**

```
scale_fill_discrete(..., type)
```

**Arguments**

- ... Additional parameters passed on to the scale type,
- type One of the following:
- A character vector of color codes. The codes are used for a 'manual' color scale as long as the number of codes exceeds the number of data levels (if there are more levels than codes, [scale\\_colour\\_hue\(\)](#)/[scale\\_fill\\_hue\(\)](#) are used to construct the default scale). If this is a named vector, then the color values will be matched to levels based on the names of the vectors. Data values that don't match will be set as `na.value`.
  - A list of character vectors of color codes. The minimum length vector that exceeds the number of data levels is chosen for the color scaling. This is useful if you want to change the color palette based on the number of levels.
  - A function that returns a discrete colour/fill scale (e.g., [scale\\_fill\\_hue\(\)](#), [scale\\_fill\\_brewer\(\)](#), etc).

**Author(s)**

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

Other scales: [scale\\_colour\\_discrete\(\)](#), [scale\\_colour\\_gradient\(\)](#), [scale\\_colour\\_gradient2\(\)](#), [scale\\_colour\\_viridis\\_d\(\)](#), [scale\\_fill\\_gradient\(\)](#), [scale\\_fill\\_gradient2\(\)](#)

---

`scale_fill_gradient`     *redefine* `ggplot2::scale_fill_gradient()`

---

**Description**

Selects the colours depending on the current set theme.

**Usage**

```
scale_fill_gradient(
  ...,
  low,
  high,
  space = "Lab",
  na.value = "grey50",
  guide = "colourbar",
  aesthetics = "fill"
)
```

**Arguments**

...

Arguments passed on to [continuous\\_scale](#)

**scale\_name** **[Deprecated]** The name of the scale that should be used for error messages associated with this scale.

**palette** A palette function that when called with a numeric vector with values between 0 and 1 returns the corresponding output values (e.g., [scales::pal\\_area\(\)](#)).

**breaks** One of:

- NULL for no breaks
- [waiver\(\)](#) for the default breaks computed by the [transformation object](#)
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output (e.g., a function returned by [scales::extended\\_breaks\(\)](#)). Note that for position scales, limits are provided after scale expansion. Also accepts rlang [lambda](#) function notation.

**minor\_breaks** One of:

- NULL for no minor breaks
- [waiver\(\)](#) for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks. Also accepts rlang [lambda](#) function notation. When the function has two arguments, it will be given the limits and major breaks.

**n.breaks** An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use NULL to use the default number of breaks given by the transformation.

**labels** One of:

- NULL for no labels
- [waiver\(\)](#) for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See [?plot-math](#) for details.
- A function that takes the breaks as input and returns labels as output. Also accepts rlang [lambda](#) function notation.

**limits** One of:

- NULL to use the default scale range
- A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum
- A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang [lambda](#) function notation. Note that setting limits on positional scales will **remove** data outside of the limits. If the purpose is to zoom, use the limit argument in the coordinate system (see [coord\\_cartesian\(\)](#)).

**rescaler** A function used to scale the input values to the range [0, 1]. This is always `scales::rescale()`, except for diverging and n colour gradients (i.e., `scale_colour_gradient2()`, `scale_colour_gradientn()`). The rescaler is ignored by position scales, which always use `scales::rescale()`. Also accepts rlang `lambda` function notation.

**oob** One of:

- Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang `lambda` function notation.
- The default (`scales::censor()`) replaces out of bounds values with NA.
- `scales::squish()` for squishing out of bounds values into range.
- `scales::squish_infinite()` for squishing infinite values into range.

**trans** **[Deprecated]** Deprecated in favour of transform.

**call** The call used to construct the scale for reporting messages.

**super** The super class to use for the constructed scale

|            |                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| low        | Colour for the low end of the gradient                                                                                                                                                                                                                                                |
| high       | Colour for the high end of the gradient                                                                                                                                                                                                                                               |
| space      | colour space in which to calculate gradient. Must be "Lab" - other values are deprecated.                                                                                                                                                                                             |
| na.value   | Colour to use for missing values                                                                                                                                                                                                                                                      |
| guide      | Type of legend. Use "colourbar" for continuous colour bar, or "legend" for discrete colour legend.                                                                                                                                                                                    |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the colour and fill aesthetics at the same time, via <code>aesthetics = c("colour", "fill")</code> . |

### Author(s)

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

### See Also

Other scales: `scale_colour_discrete()`, `scale_colour_gradient()`, `scale_colour_gradient2()`, `scale_colour_viridis_d()`, `scale_fill_discrete()`, `scale_fill_gradient2()`

---

`scale_fill_gradient2` *redefine* `ggplot2::scale_fill_gradient2()`

---

### Description

Selects the colours depending on the current set theme.

**Usage**

```
scale_fill_gradient2(
  ...,
  low,
  high,
  mid,
  midpoint = 0,
  space = "Lab",
  guide = "colourbar",
  na.value = "grey50",
  aesthetics = "fill"
)
```

**Arguments**

... Arguments passed on to [continuous\\_scale](#)

scale\_name **[Deprecated]** The name of the scale that should be used for error messages associated with this scale.

palette A palette function that when called with a numeric vector with values between 0 and 1 returns the corresponding output values (e.g., [scales::pal\\_area\(\)](#)).

breaks One of:

- NULL for no breaks
- [waiver\(\)](#) for the default breaks computed by the [transformation object](#)
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output (e.g., a function returned by [scales::extended\\_breaks\(\)](#)). Note that for position scales, limits are provided after scale expansion. Also accepts [rlang lambda](#) function notation.

minor\_breaks One of:

- NULL for no minor breaks
- [waiver\(\)](#) for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks. Also accepts [rlang lambda](#) function notation. When the function has two arguments, it will be given the limits and major breaks.

n.breaks An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use NULL to use the default number of breaks given by the transformation.

labels One of:

- NULL for no labels
- [waiver\(\)](#) for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See `?plot-math` for details.

- A function that takes the breaks as input and returns labels as output. Also accepts rlang `lambda` function notation.

limits One of:

- NULL to use the default scale range
- A numeric vector of length two providing limits of the scale. Use NA to refer to the existing minimum or maximum
- A function that accepts the existing (automatic) limits and returns new limits. Also accepts rlang `lambda` function notation. Note that setting limits on positional scales will **remove** data outside of the limits. If the purpose is to zoom, use the limit argument in the coordinate system (see `coord_cartesian()`).

rescaler A function used to scale the input values to the range [0, 1]. This is always `scales::rescale()`, except for diverging and n colour gradients (i.e., `scale_colour_gradient2()`, `scale_colour_gradientn()`). The rescaler is ignored by position scales, which always use `scales::rescale()`. Also accepts rlang `lambda` function notation.

oob One of:

- Function that handles limits outside of the scale limits (out of bounds). Also accepts rlang `lambda` function notation.
- The default (`scales::censor()`) replaces out of bounds values with NA.
- `scales::squish()` for squishing out of bounds values into range.
- `scales::squish_infinite()` for squishing infinite values into range.

trans **[Deprecated]** Deprecated in favour of transform.

call The call used to construct the scale for reporting messages.

super The super class to use for the constructed scale

|            |                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| low        | Colour for the low end of the gradient                                                                                                                                                                                                                                                |
| high       | Colour for the high end of the gradient                                                                                                                                                                                                                                               |
| mid        | colour for mid point                                                                                                                                                                                                                                                                  |
| midpoint   | The midpoint (in data value) of the diverging scale. Defaults to 0.                                                                                                                                                                                                                   |
| space      | colour space in which to calculate gradient. Must be "Lab" - other values are deprecated.                                                                                                                                                                                             |
| guide      | Type of legend. Use "colourbar" for continuous colour bar, or "legend" for discrete colour legend.                                                                                                                                                                                    |
| na.value   | Colour to use for missing values                                                                                                                                                                                                                                                      |
| aesthetics | Character string or vector of character strings listing the name(s) of the aesthetic(s) that this scale works with. This can be useful, for example, to apply colour settings to the colour and fill aesthetics at the same time, via <code>aesthetics = c("colour", "fill")</code> . |

## Author(s)

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

Other scales: [scale\\_colour\\_discrete\(\)](#), [scale\\_colour\\_gradient\(\)](#), [scale\\_colour\\_gradient2\(\)](#), [scale\\_colour\\_viridis\\_d\(\)](#), [scale\\_fill\\_discrete\(\)](#), [scale\\_fill\\_gradient\(\)](#)

---

|              |                                       |
|--------------|---------------------------------------|
| show_palette | <i>Show a palette on a single row</i> |
|--------------|---------------------------------------|

---

**Description**

Show a palette on a single row

**Usage**

```
show_palette(colours)
```

**Arguments**

colours            a vector of colours

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

|               |                                                        |
|---------------|--------------------------------------------------------|
| switch_colour | <i>Switch the default colour of all ggplot2 geoms.</i> |
|---------------|--------------------------------------------------------|

---

**Description**

Switch the default colour of all ggplot2 geoms.

**Usage**

```
switch_colour(new_colour = inbo_steun_blauw)
```

**Arguments**

new\_colour        The new default colour.

**See Also**

Other theme: [theme\\_elsevier\(\)](#), [theme\\_inbo\(\)](#), [theme\\_map\(\)](#), [theme\\_nara\(\)](#), [theme\\_vlaanderen2015\(\)](#)

**Examples**

```
switch_colour("black")
```

---

|                |                                                                      |
|----------------|----------------------------------------------------------------------|
| theme_elsevier | <i>Theme in compliance with the style guide of Elsevier journals</i> |
|----------------|----------------------------------------------------------------------|

---

**Description**

This theme is based on [http://cdn.elsevier.com/assets/pdf\\_file/0010/109963/Artwork.pdf](http://cdn.elsevier.com/assets/pdf_file/0010/109963/Artwork.pdf)

**Usage**

```
theme_elsevier(base_size = 7, base_family = "")
```

**Arguments**

|             |                |
|-------------|----------------|
| base_size   | base font size |
| base_family | base font type |

**See Also**

Other theme: [switch\\_colour\(\)](#), [theme\\_inbo\(\)](#), [theme\\_map\(\)](#), [theme\\_nara\(\)](#), [theme\\_vlaanderen2015\(\)](#)

**Examples**

```
library(ggplot2)
p <- ggplot(mtcars, aes(x = mpg, y = drat)) + geom_point()
p.elsevier <- p + theme_elsevier()
```

---

|            |                                                                              |
|------------|------------------------------------------------------------------------------|
| theme_inbo | <i>The theme in compliance with the INBO style guide version &gt;= 2015.</i> |
|------------|------------------------------------------------------------------------------|

---

**Description**

The theme in compliance with the INBO style guide version >= 2015.

**Usage**

```
theme_inbo(base_size = 12, base_family = "", transparent = FALSE)
```

```
theme_inbo2015(base_size = 12, base_family, transparent = FALSE)
```

**Arguments**

|             |                                                                                                                                                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| base_size   | base font size, given in pts.                                                                                                                                                                                                                                                                                                                  |
| base_family | base font family                                                                                                                                                                                                                                                                                                                               |
| transparent | Make backgrounds transparent. FALSE: all backgrounds are white, TRUE: all backgrounds are transparent. You can pass a vector to transparent. In that case, it will check whether the values "plot", "panel" and/or "legend" are present. The according items will be transparent. Transparent panel will use grey instead of white grid lines. |

**Author(s)**

Thierry Onkelinx, Oona Op de Weerd, Nicole De Groof

**See Also**

Other theme: [switch\\_colour\(\)](#), [theme\\_elsevier\(\)](#), [theme\\_map\(\)](#), [theme\\_nara\(\)](#), [theme\\_vlaanderen2015\(\)](#)

**Examples**

```
library(ggplot2)
p <- ggplot(mtcars, aes(x = mpg, y = drat)) + geom_point()
p.inbo <- p + theme_inbo()
```

---

|           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| theme_map | <i>a ggplot2 theme which removes labels, ticks and titles from both axes.</i> |
|-----------|-------------------------------------------------------------------------------|

---

**Description**

a ggplot2 theme which removes labels, ticks and titles from both axes.

**Usage**

```
theme_map()
```

**See Also**

Other theme: [switch\\_colour\(\)](#), [theme\\_elsevier\(\)](#), [theme\\_inbo\(\)](#), [theme\\_nara\(\)](#), [theme\\_vlaanderen2015\(\)](#)

**Examples**

```
library(ggplot2)
p <- ggplot(mtcars, aes(x = mpg, y = drat)) + geom_point()
p.map <- p + theme_map()
```

---

|            |                                    |
|------------|------------------------------------|
| theme_nara | <i>The theme for NARA reports.</i> |
|------------|------------------------------------|

---

**Description**

Deprecated. Use theme\_inbo() instead.

**Usage**

```
theme_nara(base_size = 12, base_family = "")
```

**Arguments**

|             |                               |
|-------------|-------------------------------|
| base_size   | base font size, given in pts. |
| base_family | base font family              |

**See Also**

Other theme: [switch\\_colour\(\)](#), [theme\\_elsevier\(\)](#), [theme\\_inbo\(\)](#), [theme\\_map\(\)](#), [theme\\_vlaanderen2015\(\)](#)

---

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| theme_vlaanderen2015 | <i>The theme in compliance with the Flanders style guide version &gt;= 2015.</i> |
|----------------------|----------------------------------------------------------------------------------|

---

**Description**

The theme in compliance with the Flanders style guide version >= 2015.

**Usage**

```
theme_vlaanderen2015(base_size = 12, base_family = "", transparent = FALSE)
```

**Arguments**

|             |                                                                                                                                                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| base_size   | base font size, given in pts.                                                                                                                                                                                                                                                                                                                  |
| base_family | base font family                                                                                                                                                                                                                                                                                                                               |
| transparent | Make backgrounds transparent. FALSE: all backgrounds are white, TRUE: all backgrounds are transparent. You can pass a vector to transparent. In that case, it will check whether the values "plot", "panel" and/or "legend" are present. The according items will be transparent. Transparent panel will use grey instead of white grid lines. |

**Author(s)**

Thierry Onkelinx, Nicole De Groof

**See Also**

Other theme: [switch\\_colour\(\)](#), [theme\\_elsevier\(\)](#), [theme\\_inbo\(\)](#), [theme\\_map\(\)](#), [theme\\_nara\(\)](#)

**Examples**

```
library(ggplot2)
p <- ggplot(mtcars, aes(x = mpg, y = drat)) + geom_point()
p.v1 <- p + theme_vlaanderen2015()
```

---

|                 |                                                                                    |
|-----------------|------------------------------------------------------------------------------------|
| traffic_palette | <i>A Colour Palette Ranging From a Dark Red over Medium Orange to Light Green.</i> |
|-----------------|------------------------------------------------------------------------------------|

---

**Description**

A Colour Palette Ranging From a Dark Red over Medium Orange to Light Green.

**Usage**

```
traffic_palette(n)
```

**Arguments**

|   |                       |
|---|-----------------------|
| n | The number of colours |
|---|-----------------------|

**Value**

a vector of n hexadecimal values defining the colours.

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [vl\\_yellow](#), [vlaanderen\\_palette\(\)](#)

---

|           |                                                                                                         |
|-----------|---------------------------------------------------------------------------------------------------------|
| vl_yellow | <i>Some colours for the corporate style of vlaanderen.be. Taken from level 1, and level 2 palette 7</i> |
|-----------|---------------------------------------------------------------------------------------------------------|

---

**Description**

Colour according to the Flanders style guide as hexadecimal values.

- vl\_yellow
- vl\_darkyellow
- vl\_black
- vl\_grey1
- vl\_grey2
- vl\_grey3
- vl\_grey4
- vl\_grey5
- vl\_grey6
- vl\_grey7

- vl\_lightgreen
- vl\_darkgreen
- vl\_lightblue
- vl\_darkblue
- vl\_lightred
- vl\_darkred
- vl\_lightbrown
- vl\_darkbrown

**Author(s)**

Thierry Onkelinx

**References**

<http://webstijlgids.vlaanderen.be/element/kleurgebruik>

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vlaanderen\\_palette\(\)](#)

---

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| vlaanderen_palette | <i>A colour pallet according the Flanders style guide version &gt;= 2015.</i> |
|--------------------|-------------------------------------------------------------------------------|

---

**Description**

A colour pallet according the Flanders style guide version >= 2015.

**Usage**

```
vlaanderen_palette(n)
```

**Arguments**

|   |                       |
|---|-----------------------|
| n | The number of colours |
|---|-----------------------|

**Value**

a vector of n hexadecimal values defining the colours.

**Author(s)**

Thierry Onkelinx

**References**

<http://webstijlgids.vlaanderen.be/element/kleurgebruik>

**See Also**

Other colours: [demo\\_palette\(\)](#), [inbo\\_hoofd](#), [inbo\\_palette\(\)](#), [nara\\_palette\(\)](#), [show\\_palette\(\)](#), [traffic\\_palette\(\)](#), [vl\\_yellow](#)

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