

# Package ‘ggsci’

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**Type** Package

**Title** Scientific Journal and Sci-Fi Themed Color Palettes for 'ggplot2'

**Version** 3.0.3

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**Description** A collection of 'ggplot2' color palettes inspired by plots in scientific journals, data visualization libraries, science fiction movies, and TV shows.

**License** GPL (>= 3)

**URL** <https://nanx.me/ggsci/>, <https://github.com/nanxstats/ggsci>

**BugReports** <https://github.com/nanxstats/ggsci/issues>

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pal_aaas	<i>AAAS Journal Color Palettes</i>
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### Description

Color palettes inspired by plots in journals published by American Association for the Advancement of Science (AAAS), such as *Science* and *Science Translational Medicine*.

### Usage

```
pal_aaas(palette = c("default"), alpha = 1)
```

### Arguments

palette	Palette type. Currently there is one available option: "default" (10-color palette inspired by <i>Science</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### Examples

```
library("scales")
show_col(pal_aaas("default")(10))
show_col(pal_aaas("default", alpha = 0.6)(10))
```

---

pal_cosmic	<i>COSMIC Color Palettes</i>
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---

### Description

Color palettes inspired by the colors used in projects from the [Catalogue Of Somatic Mutations in Cancers \(COSMIC\)](#)

### Usage

```
pal_cosmic(
  palette = c("hallmarks_light", "hallmarks_dark", "signature_substitutions"),
  alpha = 1
)
```

**Arguments**

palette	Palette type. Currently there are three available options: "signature_substitutions" (6-color palette), "hallmarks_light" (10-color palette), and "hallmarks_dark" (10-color palette). The "hallmarks_light" option is from <a href="#">Hanahan and Weinberg (2011)</a> .
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Joshua H. Cook <<joshuacook0023@gmail.com>> | <[GitHub/jhrcook](#)>

**Examples**

```
library("scales")
show_col(pal_cosmic("hallmarks_light")(10))
show_col(pal_cosmic("hallmarks_light", alpha = 0.6)(10))
show_col(pal_cosmic("hallmarks_dark")(10))
show_col(pal_cosmic("hallmarks_dark", alpha = 0.6)(10))
show_col(pal_cosmic("signature_substitutions")(6))
show_col(pal_cosmic("signature_substitutions", alpha = 0.6)(6))
```

---

pal\_d3

*D3.js Color Palettes*

---

**Description**

Color palettes based on the colors used by D3.js.

**Usage**

```
pal_d3(
  palette = c("category10", "category20", "category20b", "category20c"),
  alpha = 1
)
```

**Arguments**

palette	Palette type. There are 4 available options: "category10" (10-color palette); "category20" (20-color palette); "category20b" (20-color palette); "category20c" (20-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## References

<https://github.com/d3/d3-3.x-api-reference/blob/master/Ordinal-Scales.md>

## Examples

```
library("scales")
show_col(pal_d3("category10")(10))
show_col(pal_d3("category20")(20))
show_col(pal_d3("category20b")(20))
show_col(pal_d3("category20c")(20))
```

---

pal\_flatui

*Flat UI Color Palettes*

---

## Description

Color palettes inspired by the colors used in *Flat UI Colors*.

## Usage

```
pal_flatui(palette = c("default", "flattastic", "aussie"), alpha = 1)
```

## Arguments

palette	Palette type. Currently there are three available option: "default" (10-color palette). "flattastic" (12-color palette). "aussie" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

## Author(s)

Clara Jégousse <<cat3@hi.is>>

## Examples

```
library("scales")
show_col(pal_flatui("default")(10))
show_col(pal_flatui("flattastic")(12))
show_col(pal_flatui("aussie")(10))
show_col(pal_flatui("aussie", alpha = 0.6)(10))
```

---

pal\_frontiers      *Frontiers Color Palettes*

---

### Description

Color palettes inspired by the colors used in *Frontiers*.

### Usage

```
pal_frontiers(palette = c("default"), alpha = 1)
```

### Arguments

palette	Palette type. Currently there is one available option: "default" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

### Author(s)

Clara Jégousse <<cat3@hi.is>>

### Examples

```
library("scales")
show_col(pal_frontiers("default")(7))
show_col(pal_frontiers("default", alpha = 0.6)(7))
```

---

pal\_futurama      *The Futurama Color Palettes*

---

### Description

Color palettes inspired by the colors used in *Futurama*.

### Usage

```
pal_futurama(palette = c("planetexpress"), alpha = 1)
```

### Arguments

palette	Palette type. Currently there is one available option: "planetexpress" (12-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_futurama("planetexpress")(12))
show_col(pal_futurama("planetexpress", alpha = 0.6)(12))
```

---

pal\_gsea

*The GSEA GenePattern Color Palettes*

---

**Description**

Color palette inspired by the colors used in the heatmaps plotted by GSEA GenePattern.

**Usage**

```
pal_gsea(palette = c("default"), n = 12, alpha = 1, reverse = FALSE)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (continuous palette with 12 base colors).
n	Number of individual colors to be generated.
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_gsea("default")(12))
show_col(pal_gsea("default", n = 30, alpha = 0.6, reverse = TRUE)(30))
```

---

pal\_igv

*Integrative Genomics Viewer (IGV) Color Palettes*

---

### Description

Color palettes based on the colors used by Integrative Genomics Viewer (IGV).

### Usage

```
pal_igv(palette = c("default", "alternating"), alpha = 1)
```

### Arguments

palette	Palette type. There are two available options: "default" (51-color palette); "alternating" (2-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### References

James T. Robinson, Helga Thorvaldsdóttir, Wendy Winckler, Mitchell Guttman, Eric S. Lander, Gad Getz, Jill P. Mesirov. Integrative Genomics Viewer. *Nature Biotechnology* 29, 24–26 (2011).

### Examples

```
library("scales")
show_col(pal_igv("default")(51))
show_col(pal_igv("alternating")(2))
```

---

pal\_jama

*Journal of the American Medical Association Color Palettes*

---

### Description

Color palette inspired by plots in *The Journal of the American Medical Association*.

### Usage

```
pal_jama(palette = c("default"), alpha = 1)
```

### Arguments

palette	Palette type. Currently there is one available option: "default" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.



**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_jama("default")(7))
show_col(pal_jama("default", alpha = 0.6)(7))
```

---

pal\_jco

*Journal of Clinical Oncology Color Palettes*

---

**Description**

Color palette inspired by plots in *Journal of Clinical Oncology*.

**Usage**

```
pal_jco(palette = c("default"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_jco("default")(10))
show_col(pal_jco("default", alpha = 0.6)(10))
```

pal\_lancet

*Lancet Journal Color Palettes*

---

**Description**

Color palettes inspired by plots in Lancet journals, such as *Lancet Oncology*.

**Usage**

```
pal_lancet(palette = c("lanonc"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "lanonc" (9-color palette inspired by <i>Lancet Oncology</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_lancet("lanonc")(9))
show_col(pal_lancet("lanonc", alpha = 0.6)(9))
```

---

pal\_locuszoom

*LocusZoom Color Palette*

---

**Description**

Color palettes based on the colors used by LocusZoom.

**Usage**

```
pal_locuszoom(palette = c("default"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## References

Pruim, Randall J., et al. (2010). LocusZoom: regional visualization of genome-wide association scan results. *Bioinformatics*, 26(18), 2336–2337.

## Examples

```
library("scales")
show_col(pal_locuszoom("default")(7))
show_col(pal_locuszoom("default", alpha = 0.6)(7))
```

---

pal_material	<i>Material Design Color Palettes</i>
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---

## Description

The Material Design color palettes.

## Usage

```
pal_material(  
  palette = c("red", "pink", "purple", "deep-purple", "indigo", "blue", "light-blue",  
             "cyan", "teal", "green", "light-green", "lime", "yellow", "amber", "orange",  
             "deep-orange", "brown", "grey", "blue-grey"),  
  n = 10,  
  alpha = 1,  
  reverse = FALSE  
)
```

## Arguments

palette      Palette type. There are 19 available options:

- "red"
- "pink"
- "purple"
- "deep-purple"
- "indigo"
- "blue"
- "light-blue"
- "cyan"
- "teal"
- "green"
- "light-green"
- "lime"
- "yellow"
- "amber"

- "orange",
- "deep-orange"
- "brown"
- "grey"
- "blue-grey"

See **Material Design color system** for details.

n	Number of individual colors to be generated.
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### Examples

```
library("scales")
show_col(pal_material("indigo")(10))
show_col(pal_material("indigo", n = 30, alpha = 0.6, reverse = TRUE)(30))
```

---

pal\_nejm

*NEJM Color Palettes*

---

### Description

Color palette inspired by plots in *The New England Journal of Medicine*.

### Usage

```
pal_nejm(palette = c("default"), alpha = 1)
```

### Arguments

palette	Palette type. Currently there is one available option: "default" (8-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### Examples

```
library("scales")
show_col(pal_nejm("default")(8))
show_col(pal_nejm("default", alpha = 0.6)(8))
```

---

pal_npg	<i>NPG Journal Color Palettes</i>
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---

**Description**

Color palettes inspired by plots in journals published by Nature Publishing Group, such as *Nature Reviews Cancer*.

**Usage**

```
pal_npg(palette = c("nrc"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "nrc" (10-color palette inspired by <i>Nature Reviews Cancer</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_npg("nrc")(10))
show_col(pal_npg("nrc", alpha = 0.6)(10))
```

---

pal_rickandmorty	<i>Rick and Morty Color Palettes</i>
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---

**Description**

Color palettes inspired by the colors used in *Rick and Morty*.

**Usage**

```
pal_rickandmorty(palette = c("schwifty"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "schwifty" (12-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_rickandmarty("schwifty")(12))
show_col(pal_rickandmarty("schwifty", alpha = 0.6)(12))
```

---

pal\_simpsons

*The Simpsons Color Palettes*

---

**Description**

Color palettes inspired by the colors used in *The Simpsons*.

**Usage**

```
pal_simpsons(palette = c("springfield"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "springfield" (16-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_simpsons("springfield")(16))
show_col(pal_simpsons("springfield", alpha = 0.6)(16))
```

---

pal_startrek	<i>Star Trek Color Palettes</i>
--------------	---------------------------------

---

**Description**

Color palettes inspired by the colors used in *Star Trek*.

**Usage**

```
pal_startrek(palette = c("uniform"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "uniform" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_startrek("uniform")(7))
show_col(pal_startrek("uniform", alpha = 0.6)(7))
```

---

pal_tron	<i>Tron Legacy Color Palettes</i>
----------	-----------------------------------

---

**Description**

Color palettes inspired by the colors used in *Tron Legacy*.

**Usage**

```
pal_tron(palette = c("legacy"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "legacy" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("scales")
show_col(pal_tron("legacy")(7))
show_col(pal_tron("legacy", alpha = 0.6)(7))
```

---

pal\_uchicago

*The University of Chicago Color Palettes*

---

## Description

Color palettes based on the colors used by the University of Chicago.

## Usage

```
pal_uchicago(palette = c("default", "light", "dark"), alpha = 1)
```

## Arguments

palette	Palette type. There are 3 available options: "default" (9-color palette); "light" (9-color light palette); "dark" (9-color dark palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## References

[https://news.uchicago.edu/sites/default/files/attachments/\\_uchicago.identity.guidelines.pdf](https://news.uchicago.edu/sites/default/files/attachments/_uchicago.identity.guidelines.pdf)

## Examples

```
library("scales")
show_col(pal_uchicago("default")(9))
show_col(pal_uchicago("light")(9))
show_col(pal_uchicago("dark")(9))
```



---

pal_ucscgb	<i>UCSC Genome Browser Color Palette</i>
------------	--

---

**Description**

Color palette from UCSC Genome Browser chromosome colors.

**Usage**

```
pal_ucscgb(palette = c("default"), alpha = 1)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (26-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_ucscgb("default")(26))
show_col(pal_ucscgb("default", alpha = 0.6)(26))
```

---

rgb_gsea	<i>The GSEA GenePattern Color Palettes</i>
----------	--

---

**Description**

Color palette inspired by the colors used in the heatmaps plotted by GSEA GenePattern.

**Usage**

```
rgb_gsea(palette = c("default"), n = 12, alpha = 1, reverse = FALSE)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (continuous palette with 12 base colors).
n	Number of individual colors to be generated.
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?

**Note**

The 12 base colors used in this palette are derived from the [HeatMapImage documentation](#).

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("scales")
show_col(pal_gsea("default")(12))
show_col(pal_gsea("default", n = 30, alpha = 0.6, reverse = TRUE)(30))
```

---

rgb\_material

*Material Design Color Palettes*

---

**Description**

The Material Design color palettes.

**Usage**

```
rgb_material(
  palette = c("red", "pink", "purple", "deep-purple", "indigo", "blue", "light-blue",
             "cyan", "teal", "green", "light-green", "lime", "yellow", "amber", "orange",
             "deep-orange", "brown", "grey", "blue-grey"),
  n = 10,
  alpha = 1,
  reverse = FALSE
)
```

**Arguments**

palette            Palette type. There are 19 available options:

- "red"
- "pink"
- "purple"
- "deep-purple"
- "indigo"
- "blue"
- "light-blue"
- "cyan"
- "teal"
- "green"
- "light-green"

- "lime"
- "yellow"
- "amber"
- "orange",
- "deep-orange"
- "brown"
- "grey"
- "blue-grey"

See [Material Design color system](#) for details.

n	Number of individual colors to be generated.
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### References

<https://m2.material.io/design/color/the-color-system.html>

### Examples

```
library("scales")
show_col(pal_material("indigo")(10))
show_col(pal_material("indigo", n = 30, alpha = 0.6, reverse = TRUE)(30))
```

---

scale_color_aaas	<i>AAAS Journal Color Scales</i>
------------------	----------------------------------

---

### Description

See [pal\\_aaas](#) for details.

### Usage

```
scale_color_aaas(palette = c("default"), alpha = 1, ...)
scale_colour_aaas(palette = c("default"), alpha = 1, ...)
scale_fill_aaas(palette = c("default"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (10-color palette inspired by <i>Science</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_aaas()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_aaas()
```

---

scale\_color\_cosmic      *COSMIC Color Scales*

---

**Description**

See [pal\\_cosmic](#) for details.

**Usage**

```
scale_color_cosmic(
  palette = c("hallmarks_light", "hallmarks_dark", "signature_substitutions"),
  alpha = 1,
  ...
)

scale_colour_cosmic(
```

```

palette = c("hallmarks_light", "hallmarks_dark", "signature_substitutions"),
alpha = 1,
...
)

scale_fill_cosmic(
palette = c("hallmarks_light", "hallmarks_dark", "signature_substitutions"),
alpha = 1,
...
)

```

### Arguments

palette	Palette type. Currently there are three available options: "signature_substitutions" (6-color palette), "hallmarks_light" (10-color palette), and "hallmarks_dark" (10-color palette). The "hallmarks_light" option is from <a href="#">Hanahan and Weinberg (2011)</a> .
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

### Author(s)

Joshua H. Cook <<joshuacook0023@gmail.com>> | <[GitHub/jhrcook](#)>

### Examples

```

library("ggplot2")
data("diamonds")

ggplot(
subset(diamonds, carat >= 2.2),
aes(x = table, y = price, colour = cut)
) +
geom_point(alpha = 0.7) +
geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
theme_bw() +
scale_color_cosmic()

ggplot(
subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
aes(x = depth, fill = cut)
) +
geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
theme_bw() +
scale_fill_cosmic()

```

---

scale\_color\_d3      *D3.js Color Scales*

---

## Description

See [pal\\_d3](#) for details.

## Usage

```
scale_color_d3(  
  palette = c("category10", "category20", "category20b", "category20c"),  
  alpha = 1,  
  ...  
)
```

```
scale_colour_d3(  
  palette = c("category10", "category20", "category20b", "category20c"),  
  alpha = 1,  
  ...  
)
```

```
scale_fill_d3(  
  palette = c("category10", "category20", "category20b", "category20c"),  
  alpha = 1,  
  ...  
)
```

## Arguments

palette	Palette type. There are 4 available options: "category10" (10-color palette); "category20" (20-color palette); "category20b" (20-color palette); "category20c" (20-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## References

<https://github.com/d3/d3-3.x-api-reference/blob/master/Ordinal-Scales.md>

**Examples**

```

library("ggplot2")
data("diamonds")

p1 <- ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw()

p2 <- ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw()

p1 + scale_color_d3()
p2 + scale_fill_d3()

p1 + scale_color_d3(palette = "category20")
p2 + scale_fill_d3(palette = "category20")

p1 + scale_color_d3(palette = "category20b")
p2 + scale_fill_d3(palette = "category20b")

p1 + scale_color_d3(palette = "category20c")
p2 + scale_fill_d3(palette = "category20c")

```

---

scale\_color\_flatui      *Flat UI Color Scales*

---

**Description**

See [pal\\_flatui](#) for details.

**Usage**

```

scale_color_flatui(
  palette = c("default", "flattastic", "aussie"),
  alpha = 1,
  ...
)

scale_colour_flatui(
  palette = c("default", "flattastic", "aussie"),
  alpha = 1,

```

```

    ...
  )

scale_fill_flatui(
  palette = c("default", "flattastic", "aussie"),
  alpha = 1,
  ...
)

```

### Arguments

palette	Palette type. Currently there are three available option: "default" (10-color palette). "flattastic" (12-color palette). "aussie" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

### Author(s)

Clara Jégousse <<cat3@hi.is>>

### Examples

```

library("ggplot2")
data("diamonds")

p1 <- ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw()

p2 <- ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw()

p1 + scale_color_flatui()
p2 + scale_fill_flatui()

p1 + scale_color_flatui(palette = "default")
p2 + scale_fill_flatui(palette = "default")

p1 + scale_color_flatui(palette = "flattastic")
p2 + scale_fill_flatui(palette = "flattastic")

p1 + scale_color_flatui(palette = "aussie")
p2 + scale_fill_flatui(palette = "aussie")

```



---

*scale\_color\_frontiers* *Frontiers Color Scales*

---

**Description**

See [pal\\_frontiers](#) for details.

**Usage**

```
scale_color_frontiers(palette = c("default"), alpha = 1, ...)
```

```
scale_colour_frontiers(palette = c("default"), alpha = 1, ...)
```

```
scale_fill_frontiers(palette = c("default"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Clara Jégousse <<cat3@hi.is>>

**Examples**

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_dark() +
  theme(
    panel.background = element_rect(fill = "#2D2D2D"),
    legend.key = element_rect(fill = "#2D2D2D")
  ) +
  scale_color_frontiers()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
```

```
geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_dark() +
  theme(
    panel.background = element_rect(fill = "#2D2D2D")
  ) +
  scale_fill_frontiers()
```

---

scale\_color\_futurama *The Futurama Color Scales*

---

## Description

See [pal\\_futurama](#) for details.

## Usage

```
scale_color_futurama(palette = c("planetexpress"), alpha = 1, ...)
```

```
scale_colour_futurama(palette = c("planetexpress"), alpha = 1, ...)
```

```
scale_fill_futurama(palette = c("planetexpress"), alpha = 1, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "planetexpress" (12-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_futurama()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
```

```
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_futurama()
```

---

scale\_color\_gsea

*The GSEA GenePattern Color Scales*

---

## Description

See [pal\\_gsea](#) for details.

## Usage

```
scale_color_gsea(palette = c("default"), alpha = 1, reverse = FALSE, ...)
scale_colour_gsea(palette = c("default"), alpha = 1, reverse = FALSE, ...)
scale_fill_gsea(palette = c("default"), alpha = 1, reverse = FALSE, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "default" (continuous palette with 12 base colors).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")
library("reshape2")
data("mtcars")

cor <- cor(mtcars)
cor_melt <- melt(cor)

ggplot(
  cor_melt,
  aes(x = Var1, y = Var2, fill = value)
) +
  geom_tile(colour = "black", size = 0.3) +
  theme_bw() +
  scale_fill_gsea()
```

---

scale\_color\_igv      *Integrative Genomics Viewer (IGV) Color Scales*

---

## Description

See [pal\\_igv](#) for details.

## Usage

```
scale_color_igv(palette = c("default", "alternating"), alpha = 1, ...)
```

```
scale_colour_igv(palette = c("default", "alternating"), alpha = 1, ...)
```

```
scale_fill_igv(palette = c("default", "alternating"), alpha = 1, ...)
```

## Arguments

palette	Palette type. There are two available options: "default" (51-color palette); "alternating" (2-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")
data("diamonds")

p1 <- ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw()

p2 <- ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw()

p1 + scale_color_igv()
p2 + scale_fill_igv()
```

```
p1 + scale_colour_manual(  
  values = rep(pal_igv("alternating")(2), times = 3)  
)  
p2 + scale_fill_manual(  
  values = rep(pal_igv("alternating")(2), times = 3)  
)
```

---

scale\_color\_jama

*Journal of the American Medical Association Color Scales*

---

## Description

See [pal\\_jama](#) for details.

## Usage

```
scale_color_jama(palette = c("default"), alpha = 1, ...)
```

```
scale_colour_jama(palette = c("default"), alpha = 1, ...)
```

```
scale_fill_jama(palette = c("default"), alpha = 1, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "default" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")  
data("diamonds")  
  
ggplot(  
  subset(diamonds, carat >= 2.2),  
  aes(x = table, y = price, colour = cut)  
) +  
  geom_point(alpha = 0.7) +  
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +  
  theme_bw() +  
  scale_color_jama()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
```

```

aes(x = depth, fill = cut)
) +
geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
theme_bw() +
scale_fill_jama()

```

---

scale\_color\_jco

*Journal of Clinical Oncology Color Scales*


---

## Description

See [pal\\_jco](#) for details.

## Usage

```
scale_color_jco(palette = c("default"), alpha = 1, ...)
```

```
scale_colour_jco(palette = c("default"), alpha = 1, ...)
```

```
scale_fill_jco(palette = c("default"), alpha = 1, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "default" (10-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```

library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_jco()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)

```

```
) +  
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +  
  theme_bw() +  
  scale_fill_jco()
```

---

scale\_color\_lancet      *Lancet Journal Color Scales*

---

## Description

See [pal\\_lancet](#) for details.

## Usage

```
scale_color_lancet(palette = c("lanonc"), alpha = 1, ...)  
  
scale_colour_lancet(palette = c("lanonc"), alpha = 1, ...)  
  
scale_fill_lancet(palette = c("lanonc"), alpha = 1, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "lanonc" (9-color palette inspired by <i>Lancet Oncology</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")  
data("diamonds")  
  
ggplot(  
  subset(diamonds, carat >= 2.2),  
  aes(x = table, y = price, colour = cut)  
) +  
  geom_point(alpha = 0.7) +  
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +  
  theme_bw() +  
  scale_color_lancet()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),  
  aes(x = depth, fill = cut)  
) +
```

```
geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
theme_bw() +
scale_fill_lancet()
```

---

scale\_color\_locuszoom *LocusZoom Color Scales*

---

### Description

See [pal\\_locuszoom](#) for details.

### Usage

```
scale_color_locuszoom(palette = c("default"), alpha = 1, ...)
scale_colour_locuszoom(palette = c("default"), alpha = 1, ...)
scale_fill_locuszoom(palette = c("default"), alpha = 1, ...)
```

### Arguments

palette	Palette type. Currently there is one available option: "default" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### Examples

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_locuszoom()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_locuszoom()
```



**Description**

See [pal\\_material](#) for details.

**Usage**

```
scale_color_material(  
  palette = c("red", "pink", "purple", "deep-purple", "indigo", "blue", "light-blue",  
             "cyan", "teal", "green", "light-green", "lime", "yellow", "amber", "orange",  
             "deep-orange", "brown", "grey", "blue-grey"),  
  alpha = 1,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_material(  
  palette = c("red", "pink", "purple", "deep-purple", "indigo", "blue", "light-blue",  
             "cyan", "teal", "green", "light-green", "lime", "yellow", "amber", "orange",  
             "deep-orange", "brown", "grey", "blue-grey"),  
  alpha = 1,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_material(  
  palette = c("red", "pink", "purple", "deep-purple", "indigo", "blue", "light-blue",  
             "cyan", "teal", "green", "light-green", "lime", "yellow", "amber", "orange",  
             "deep-orange", "brown", "grey", "blue-grey"),  
  alpha = 1,  
  reverse = FALSE,  
  ...  
)
```

**Arguments**

palette	Palette type. There are 19 available options: <ul style="list-style-type: none"><li>• "red"</li><li>• "pink"</li><li>• "purple"</li><li>• "deep-purple"</li><li>• "indigo"</li><li>• "blue"</li><li>• "light-blue"</li></ul>
---------	--

- "cyan"
- "teal"
- "green"
- "light-green"
- "lime"
- "yellow"
- "amber"
- "orange",
- "deep-orange"
- "brown"
- "grey"
- "blue-grey"

See [Material Design color system](#) for details.

alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
reverse	Logical. Should the order of the colors be reversed?
...	additional parameters for <a href="#">discrete_scale</a>

### Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

### Examples

```
library("ggplot2")
library("reshape2")
data("mtcars")

cor <- abs(cor(mtcars))
cor_melt <- melt(cor)

ggplot(
  cor_melt,
  aes(x = Var1, y = Var2, fill = value)
) +
  geom_tile(colour = "black", size = 0.3) +
  theme_bw() +
  scale_fill_material("blue-grey")
```

### Description

See [pal\\_nejm](#) for details.

**Usage**

```
scale_color_nejm(palette = c("default"), alpha = 1, ...)
scale_colour_nejm(palette = c("default"), alpha = 1, ...)
scale_fill_nejm(palette = c("default"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "default" (8-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_nejm()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_nejm()
```

**Description**

See [pal\\_npg](#) for details.

**Usage**

```
scale_color_npg(palette = c("nrc"), alpha = 1, ...)  
scale_colour_npg(palette = c("nrc"), alpha = 1, ...)  
scale_fill_npg(palette = c("nrc"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "nrc" (10-color palette inspired by <i>Nature Reviews Cancer</i> ).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")  
data("diamonds")  
  
ggplot(  
  subset(diamonds, carat >= 2.2),  
  aes(x = table, y = price, colour = cut)  
) +  
  geom_point(alpha = 0.7) +  
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +  
  theme_bw() +  
  scale_color_npg()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),  
  aes(x = depth, fill = cut)  
) +  
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +  
  theme_bw() +  
  scale_fill_npg()
```

---

scale\_color\_rickandmorty

*Rick and Morty Color Scales*

---

**Description**

See [pal\\_rickandmorty](#) for details.

**Usage**

```
scale_color_rickandmorty(palette = c("schwifty"), alpha = 1, ...)
```

```
scale_colour_rickandmorty(palette = c("schwifty"), alpha = 1, ...)
```

```
scale_fill_rickandmorty(palette = c("schwifty"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "schwifty" (12-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_rickandmorty()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_rickandmorty()
```

---

scale\_color\_simpsons *The Simpsons Color Scales*

---

**Description**

See [pal\\_simpsons](#) for details.

**Usage**

```
scale_color_simpsons(palette = c("springfield"), alpha = 1, ...)  
scale_colour_simpsons(palette = c("springfield"), alpha = 1, ...)  
scale_fill_simpsons(palette = c("springfield"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "springfield" (16-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")  
data("diamonds")  
  
ggplot(  
  subset(diamonds, carat >= 2.2),  
  aes(x = table, y = price, colour = cut)  
) +  
  geom_point(alpha = 0.7) +  
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +  
  theme_bw() +  
  scale_color_simpsons()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),  
  aes(x = depth, fill = cut)  
) +  
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +  
  theme_bw() +  
  scale_fill_simpsons()
```

---

scale\_color\_startrek *Star Trek Color Scales*

---

**Description**

See [pal\\_startrek](#) for details.

**Usage**

```
scale_color_startrek(palette = c("uniform"), alpha = 1, ...)
```

```
scale_colour_startrek(palette = c("uniform"), alpha = 1, ...)
```

```
scale_fill_startrek(palette = c("uniform"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "uniform" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw() +
  scale_color_startrek()

ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw() +
  scale_fill_startrek()
```

---

scale\_color\_tron

*Tron Legacy Color Scales*

---

**Description**

See [pal\\_tron](#) for details.

**Usage**

```
scale_color_tron(palette = c("legacy"), alpha = 1, ...)  
scale_colour_tron(palette = c("legacy"), alpha = 1, ...)  
scale_fill_tron(palette = c("legacy"), alpha = 1, ...)
```

**Arguments**

palette	Palette type. Currently there is one available option: "legacy" (7-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

**Author(s)**

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

**Examples**

```
library("ggplot2")  
data("diamonds")  
  
ggplot(  
  subset(diamonds, carat >= 2.2),  
  aes(x = table, y = price, colour = cut)  
) +  
  geom_point(alpha = 0.7) +  
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +  
  theme_dark() +  
  theme(  
    panel.background = element_rect(fill = "#2D2D2D"),  
    legend.key = element_rect(fill = "#2D2D2D")  
  ) +  
  scale_color_tron()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),  
  aes(x = depth, fill = cut)  
) +  
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +  
  theme_dark() +  
  theme(  
    panel.background = element_rect(fill = "#2D2D2D")  
  ) +  
  scale_fill_tron()
```



---

scale\_color\_uchicago *The University of Chicago Color Scales*

---

## Description

See [pal\\_uchicago](#) for details.

## Usage

```
scale_color_uchicago(palette = c("default", "light", "dark"), alpha = 1, ...)
```

```
scale_colour_uchicago(palette = c("default", "light", "dark"), alpha = 1, ...)
```

```
scale_fill_uchicago(palette = c("default", "light", "dark"), alpha = 1, ...)
```

## Arguments

palette	Palette type. There are 3 available options: "default" (9-color palette); "light" (9-color light palette); "dark" (9-color dark palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## References

[https://news.uchicago.edu/sites/default/files/attachments/\\_uchicago.identity.guidelines.pdf](https://news.uchicago.edu/sites/default/files/attachments/_uchicago.identity.guidelines.pdf)

## Examples

```
library("ggplot2")
data("diamonds")

p1 <- ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
  theme_bw()

p2 <- ggplot(
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),
  aes(x = depth, fill = cut)
) +
```

```
geom_histogram(colour = "black", binwidth = 1, position = "dodge") +
  theme_bw()

p1 + scale_color_uchicago()
p2 + scale_fill_uchicago()

p1 + scale_color_uchicago(palette = "light")
p2 + scale_fill_uchicago(palette = "light")

p1 + scale_color_uchicago(palette = "dark")
p2 + scale_fill_uchicago(palette = "dark")
```

---

scale\_color\_ucscgb      *UCSC Genome Browser Color Scales*

---

## Description

See [pal\\_ucscgb](#) for details.

## Usage

```
scale_color_ucscgb(palette = c("default"), alpha = 1, ...)
scale_colour_ucscgb(palette = c("default"), alpha = 1, ...)
scale_fill_ucscgb(palette = c("default"), alpha = 1, ...)
```

## Arguments

palette	Palette type. Currently there is one available option: "default" (26-color palette).
alpha	Transparency level, a real number in (0, 1]. See alpha in <a href="#">rgb</a> for details.
...	additional parameters for <a href="#">discrete_scale</a>

## Author(s)

Nan Xiao <<me@nanx.me>> | <<https://nanx.me>>

## Examples

```
library("ggplot2")
data("diamonds")

ggplot(
  subset(diamonds, carat >= 2.2),
  aes(x = table, y = price, colour = cut)
) +
  geom_point(alpha = 0.7) +
  geom_smooth(method = "loess", alpha = 0.1, size = 1, span = 1) +
```

```
theme_bw() +  
scale_color_ucscgb()  
  
ggplot(  
  subset(diamonds, carat > 2.2 & depth > 55 & depth < 70),  
  aes(x = depth, fill = cut)  
) +  
  geom_histogram(colour = "black", binwidth = 1, position = "dodge") +  
  theme_bw() +  
  scale_fill_ucscgb()
```

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