

# Package ‘MSUthemes’

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**Type** Package

**Title** Michigan State University (MSU) Palettes and Themes

**Version** 1.0.0

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**Description** Defines colour palettes and themes for Michigan State University (MSU) publications and presentations. Palettes and themes are supported in both base R and 'ggplot2' graphics, and are intended to provide consistency between those creating documents and presentations.

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**Encoding** UTF-8

**RoxygenNote** 7.3.3

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**Imports** ggplot2, graphics, grDevices, purrr, showtext, sysfonts, systemfonts

**Suggests** covr, devtools, ggrepel, scales, dplyr, knitr, markdown, quarto, rmarkdown, testthat (>= 3.0.0)

**VignetteBuilder** quarto

**URL** <https://github.com/emilioxavier/MSUthemes>,  
<https://emilioxavier.github.io/MSUthemes/>

**BugReports** <https://github.com/emilioxavier/MSUthemes/issues>

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## Contents

BigTen . . . . .	3
bigten_colors_primary . . . . .	5
bigten_colors_secondary . . . . .	6
get_bigten_colors . . . . .	6
MSUcols . . . . .	7
MSUpalettes . . . . .	8
msu_black . . . . .	8
msu_blue . . . . .	8
msu_darkgrey . . . . .	9
msu_Excelsior . . . . .	9
msu_green . . . . .	9
msu_grey . . . . .	10
msu_Kelly . . . . .	10
msu_Lime . . . . .	10
msu_orange . . . . .	11
msu_peach . . . . .	11
msu_purple . . . . .	12
msu_red . . . . .	12
msu_Refresh . . . . .	12
msu_splitpea . . . . .	13
msu_tea . . . . .	13
msu_white . . . . .	13
msu_yellow . . . . .	14
print.palette . . . . .	14
scale_color_bigten_c . . . . .	15
scale_color_bigten_d . . . . .	15
scale_color_msu_c . . . . .	16
scale_color_msu_d . . . . .	17
scale_colour_bigten_c . . . . .	17
scale_colour_bigten_d . . . . .	18
scale_colour_msu_c . . . . .	19
scale_colour_msu_d . . . . .	19
scale_fill_bigten_c . . . . .	20
scale_fill_bigten_d . . . . .	21
scale_fill_msu_c . . . . .	21
scale_fill_msu_d . . . . .	22
set_msu_palette . . . . .	23
set_msu_par . . . . .	23
theme_MSU . . . . .	24
view_all_palettes . . . . .	25

## Index

26

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 BigTen

*Big Ten Conference Institutional Data (1996-2023)*


---

### Description

A comprehensive dataset containing institutional characteristics, enrollment data, financial information, and demographic composition for all Big Ten Conference member institutions from 1996 to 2023. This dataset tracks the evolution of these universities over nearly three decades, including data for institutions that joined the conference at different times.

### Usage

BigTen

### Format

A data frame with 504 rows and 38 variables:

**name** Character. Institution name (e.g., "MSU", "Michigan", "Ohio State")

**Landgrant.tf** Logical. Whether the institution is a land-grant university

**Public.tf** Logical. Whether the institution is public (TRUE) or private (FALSE)

**AAU.tf** Logical. Whether the institution is a member of the Association of American Universities

**entry\_term** Numeric. Year the data entry corresponds to (1996-2023)

**UGDS** Integer. Total undergraduate enrollment

**ADM\_RATE** Numeric. Admission rate (proportion of applicants admitted)

**C150\_4** Numeric. Completion rate for first-time, full-time students (150% of expected time)

**PCTPELL** Numeric. Percentage of undergraduates receiving Pell grants

**n.pell** Integer. Number of undergraduates receiving Pell grants

**TUITIONFEE\_IN** Integer. In-state tuition and fees

**TUITIONFEE\_OUT** Integer. Out-of-state tuition and fees

**TUITFTE** Integer. Net tuition revenue per full-time equivalent student

**BOOKSUPPLY** Integer. Average cost of books and supplies

**ROOMBOARD\_ON** Integer. Average cost of room and board for on-campus students

**OTHEREXPENSE\_ON** Integer. Other expenses for on-campus students

**OTHEREXPENSE\_FAM** Integer. Other expenses for students living with family

**CoA.inState** Integer. Total cost of attendance for in-state students

**CoA.outState** Integer. Total cost of attendance for out-of-state students

**otherCosts.tot** Integer. Total other costs

**fte.tot** Integer. Total full-time equivalent tuition plus other costs

**fte.in.rat** Numeric. Ratio of full-time equivalent tuition plus other costs to in-state to total costs

**UGDS\_WHITE** Numeric. Proportion of white undergraduate students  
**UGDS\_BLACK** Numeric. Proportion of Black undergraduate students  
**UGDS\_HISP** Numeric. Proportion of Hispanic undergraduate students  
**UGDS\_ASIAN** Numeric. Proportion of Asian undergraduate students  
**UGDS\_AIAN** Numeric. Proportion of American Indian/Alaska Native undergraduate students  
**UGDS\_NHPI** Numeric. Proportion of Native Hawaiian/Pacific Islander undergraduate students  
**UGDS\_2MOR** Numeric. Proportion of students of two or more races  
**UGDS\_NRA** Numeric. Proportion of non-resident alien undergraduate students  
**UGDS\_UNKN** Numeric. Proportion of students with unknown race/ethnicity  
**UGDS\_WHITENH** Numeric. Proportion of white non-Hispanic undergraduate students  
**UGDS\_BLACKNH** Numeric. Proportion of Black non-Hispanic undergraduate students  
**UGDS\_API** Numeric. Proportion of Asian/Pacific Islander undergraduate students  
**UGDS\_AIANOLD** Numeric. Proportion of American Indian/Alaska Native students (legacy coding)  
**UGDS\_HISPOLD** Numeric. Proportion of Hispanic students (legacy coding)  
**UGDS\_MEN** Numeric. Proportion of male undergraduate students  
**UGDS\_WOMEN** Numeric. Proportion of female undergraduate students

## Details

The dataset includes all 18 current Big Ten Conference members:

- Original members: Illinois, Indiana, Iowa, Michigan, Minnesota, Northwestern, Ohio State, Purdue, Wisconsin
- 1990 addition: MSU (Michigan State University)
- 1993 addition: Penn State
- 2011 addition: Nebraska
- 2014 additions: Maryland, Rutgers
- 2024 additions: UCLA, USoCal (USC), Oregon, Washington

Data availability varies by year and institution. Earlier years (especially 1996-2000) may have limited data for some variables. Financial data and demographic breakdowns became more standardized and complete in later years.

The dataset is particularly useful for:

- Longitudinal analysis of Big Ten institutions
- Comparative studies across public vs. private institutions
- Analysis of conference expansion impacts
- Demographic trend analysis in higher education
- Cost and accessibility studies

**Source**

Compiled from multiple institutional and federal data sources including the Integrated Postsecondary Education Data System (IPEDS) and institutional reports. Data spans 1996-2023. The dataset is a subset of the College Scorecard dataset (<https://collegescorecard.ed.gov/data/>), focusing on Big Ten institutions.

**See Also**

[bigten\\_colors\\_primary](#), [bigten\\_colors\\_secondary](#) for Big Ten institutional color palettes that correspond to the institutions in this dataset.

**Examples**

```
# Load the dataset
data(BigTen)

# View structure
str(BigTen)

# Check institutions included
unique(BigTen$name)

# Examine enrollment trends over time
if (require(ggplot2)) {
  library(ggplot2)
  BigTen_recent <- subset(BigTen, entry_term >= 2010 & !is.na(UGDS))
  ggplot(BigTen_recent, aes(x = entry_term, y = UGDS, color = name)) +
    geom_line() +
    scale_color_bigten_d(palette = "primary") +
    theme_MSU() +
    labs(title = "Big Ten Undergraduate Enrollment Trends",
         x = "Year", y = "Undergraduate Enrollment")
}

# Compare public vs private institutions
table(unique(BigTen[c("name", "Public.tf")])$Public.tf)
```

---

`bigten_colors_primary` *Named vector of Big Ten primary colors for reliable institution matching*

---

**Description**

Named vector of Big Ten primary colors for reliable institution matching

**Usage**

```
bigten_colors_primary
```

**Format**

An object of class character of length 21.

---

bigten\_colors\_secondary

*Named vector of Big Ten secondary colors for reliable institution matching*

---

**Description**

Named vector of Big Ten secondary colors for reliable institution matching

**Usage**

bigten\_colors\_secondary

**Format**

An object of class character of length 21.

---

get\_bigten\_colors

*Big Ten Institution Primary & Secondary Color Palette*

---

**Description**

Get Big Ten colors for specific institutions

**Usage**

```
get_bigten_colors(institutions, type = "primary")
```

**Arguments**

`institutions` Character vector of institution names (should match names in `bigten_colors_primary`)

`type` Either "primary" or "secondary" colors

**Value**

Named character vector of hex colors

**Examples**

```
# Get primary colors for specific institutions
get_bigten_colors(c("Michigan", "Ohio State", "MSU"))

# Get secondary colors
get_bigten_colors(c("Michigan", "Northwestern"), type = "secondary")

# Use in ggplot with scale_fill_manual
library(ggplot2)
my_colors <- get_bigten_colors(c("Michigan", "Ohio State", "MSU"))
BigTenData <- data.frame(
  institution = c("Michigan", "Ohio State", "MSU"),
  value = c(10, 15, 20)
)
ggplot(data=BigTenData) +
  geom_bar(aes(x = institution, y = value, fill = institution),
    stat="identity") +
  scale_fill_manual(values = my_colors)
```

---

MSUcols

*Generates the colour palettes*


---

**Description**

Generates the colour palettes

**Usage**

```
MSUcols(palette, n, type = "discrete", direction = 1)
```

**Arguments**

palette	Name of Palette. Run names(MSUpalettes) to view options.
n	Number of desired colors. If number of requested colors is beyond the scope of the palette, colors are automatically interpolated. If n is not provided, the length of the palette is used.
type	Either "continuous" or "discrete". Use continuous if you want to automatically interpolate between colors. Default "discrete"
direction	Sets order of colors. Default palette is 1. If direction is -1, palette color order is reversed

**Value**

A character vector of hex colour codes.

**Examples**

```
MSUcols("msu_seq")
```

---

MSUpalettes	<i>MSU palettes and MSU color variables</i>
-------------	---

---

**Description**

This file contains only MSU palettes and MSU colour variables.

**Usage**

MSUpalettes

**Format**

An object of class list of length 11.

---

msu_black	<i>MSU black hex colour</i>
-----------	-----------------------------

---

**Description**

MSU black hex colour

**Usage**

msu\_black

**Format**

An object of class character of length 1.

---

msu_blue	<i>MSU blue (aka blue-grey or blue-gray) hex colour</i>
----------	---

---

**Description**

MSU blue (aka blue-grey or blue-gray) hex colour

**Usage**

msu\_blue

**Format**

An object of class character of length 1.

---

msu_darkgrey	<i>MSU dark grey hex colour</i>
--------------	---------------------------------

---

**Description**

MSU dark grey hex colour

**Usage**

msu\_darkgrey

**Format**

An object of class character of length 1.

---

msu_Excellence	<i>MSU Excellence Green hex colour</i>
----------------	--

---

**Description**

MSU Excellence Green hex colour

**Usage**

msu\_Excellence

**Format**

An object of class character of length 1.

---

msu_green	<i>MSU Spartan Green hex colour</i>
-----------	-------------------------------------

---

**Description**

MSU Spartan Green hex colour

**Usage**

msu\_green

**Format**

An object of class character of length 1.

---

msu_grey	<i>MSU grey/gray hex colour</i>
----------	---------------------------------

---

**Description**

MSU grey/gray hex colour

**Usage**

msu\_grey

**Format**

An object of class character of length 1.

---

msu_Kelly	<i>MSU Kelly Green hex colour</i>
-----------	-----------------------------------

---

**Description**

MSU Kelly Green hex colour

**Usage**

msu\_Kelly

**Format**

An object of class character of length 1.

---

msu_Lime	<i>MSU Lime Green hex colour</i>
----------	----------------------------------

---

**Description**

MSU Lime Green hex colour

**Usage**

msu\_Lime

**Format**

An object of class character of length 1.

---

msu_orange	<i>MSU orange hex colour</i>
------------	------------------------------

---

**Description**

MSU orange hex colour

MSU (burnt) orange hex colour

**Usage**

msu\_orange

msu\_orange

**Format**

An object of class character of length 1.

An object of class character of length 1.

---

msu_peach	<i>MSU peach hex colour</i>
-----------	-----------------------------

---

**Description**

MSU peach hex colour

**Usage**

msu\_peach

**Format**

An object of class character of length 1.

---

msu_purple	<i>MSU purple hex colour</i>
------------	------------------------------

---

**Description**

MSU purple hex colour

**Usage**

msu\_purple

**Format**

An object of class character of length 1.

---

msu_red	<i>MSU red hex colour</i>
---------	---------------------------

---

**Description**

MSU red hex colour

**Usage**

msu\_red

**Format**

An object of class character of length 1.

---

msu_Refresh	<i>MSU Refresh Green hex colour</i>
-------------	-------------------------------------

---

**Description**

MSU Refresh Green hex colour

**Usage**

msu\_Refresh

**Format**

An object of class character of length 1.

---

msu_splitpea	<i>MSU split pea hex colour</i>
--------------	---------------------------------

---

**Description**

MSU split pea hex colour

**Usage**

msu\_splitpea

**Format**

An object of class character of length 1.

---

msu_teal	<i>MSU teal hex colour</i>
----------	----------------------------

---

**Description**

MSU teal hex colour

**Usage**

msu\_teal

**Format**

An object of class character of length 1.

---

msu_white	<i>MSU white hex colour</i>
-----------	-----------------------------

---

**Description**

MSU white hex colour

**Usage**

msu\_white

**Format**

An object of class character of length 1.

`msu_yellow`*MSU yellow (aka yellow-green or gyellow) hex colour*

---

**Description**

MSU yellow (aka yellow-green or gyellow) hex colour

**Usage**`msu_yellow`**Format**

An object of class character of length 1.

---

`print.palette`*Function for printing palette*

---

**Description**

Function for printing palette

**Usage**

```
## S3 method for class 'palette'  
print(x, ...)
```

**Arguments**

`x` the object to be printed.  
`...` further arguments to be passed to or from other methods. They are ignored in this function.

**Value**

A plot of the specified colour palette.

**Examples**

```
print(MSUcols("msu_qual1"))
```

---

scale\_color\_bigten\_c *Plotting with Big Ten palettes for colour ggplot2*

---

**Description**

Plotting with Big Ten palettes for colour ggplot2

**Usage**

```
scale_color_bigten_c(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_color_bigten_c(palette = "primary")
```

---

scale\_color\_bigten\_d *Plotting with Big Ten palettes for colour ggplot2*

---

**Description**

Plotting with Big Ten palettes for colour ggplot2

**Usage**

```
scale_color_bigten_d(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_color_bigten_d(palette = "primary")
```

---

scale\_color\_msu\_c      *Plotting with MSU palettes for colour ggplot2*

---

**Description**

Plotting with MSU palettes for colour ggplot2

**Usage**

```
scale_color_msu_c(palette, direction = 1, ...)
```

**Arguments**

palette	name of palette. Run names(MSUpalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_color_msu_c(palette = "msu_seq")
```

---

scale\_color\_msu\_d *Plotting with MSU palettes for colour ggplot2*

---

**Description**

Plotting with MSU palettes for colour ggplot2

**Usage**

```
scale_color_msu_d(palette, direction = 1, ...)
```

**Arguments**

palette	Name of Palette. Run palettes(MSUpalettes) to view options.
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_color_msu_d(palette = "msu_qual1")
```

---

scale\_colour\_bigten\_c *Plotting with Big Ten palettes for colour ggplot2 (British spelling)*

---

**Description**

Plotting with Big Ten palettes for colour ggplot2 (British spelling)

**Usage**

```
scale_colour_bigten_c(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = wt)) +
  geom_point() +
  scale_colour_bigten_c(palette = "primary")
```

---

scale\_colour\_bigten\_d *Plotting with Big Ten palettes for colour ggplot2 (British spelling)*

---

**Description**

Plotting with Big Ten palettes for colour ggplot2 (British spelling)

**Usage**

```
scale_colour_bigten_d(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, colour = factor(cyl))) +
  geom_point() +
  scale_colour_bigten_d(palette = "primary")
```

---

scale\_colour\_msu\_c *Plotting with MSU palettes for colour ggplot2*

---

**Description**

Plotting with MSU palettes for colour ggplot2

**Usage**

```
scale_colour_msu_c(palette, direction = 1, ...)
```

**Arguments**

palette	name of palette. Run names(MSUpalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_color_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  scale_colour_msu_c(palette = "msu_seq")
```

---

scale\_colour\_msu\_d *Plotting with MSU palettes for colour ggplot2*

---

**Description**

Plotting with MSU palettes for colour ggplot2

**Usage**

```
scale_colour_msu_d(palette, direction = 1, ...)
```

**Arguments**

palette	Name of Palette. Run names(MSUpalettes) to view options.
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = factor(cyl))) +
  geom_point() +
  scale_colour_msu_d(palette = "msu_qual1")
```

---

scale\_fill\_bigten\_c    *Plotting with Big Ten palettes for fill ggplot2*

---

**Description**

Plotting with Big Ten palettes for fill ggplot2

**Usage**

```
scale_fill_bigten_c(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">scale_fill_gradientn</a>

**Value**

A ggproto object defining a continuous fill scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, fill = wt)) +
  geom_point(shape = 21) +
  scale_fill_bigten_c(palette = "primary")
```

---

scale\_fill\_bigten\_d *Plotting with Big Ten palettes for fill ggplot2*

---

**Description**

Plotting with Big Ten palettes for fill ggplot2

**Usage**

```
scale_fill_bigten_d(palette = "primary", direction = 1, ...)
```

**Arguments**

palette	Type of palette: "primary" or "secondary"
direction	Sets order of colors. Default direction is 1. If direction is -1, palette color order is reversed
...	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete fill scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, fill = factor(cyl))) +
  geom_point(shape = 21) +
  scale_fill_bigten_d(palette = "primary")
```

---

scale\_fill\_msu\_c *Plotting with MSU palettes for fill with ggplot2*

---

**Description**

Plotting with MSU palettes for fill with ggplot2

**Usage**

```
scale_fill_msu_c(palette, direction = 1, ...)
```

**Arguments**

palette	name of palette. Run names(MSUpalettes) to view options.
direction	Sets order of colors. Default palette_choice is 1. If direction is -1, palette_choice color order is reversed
...	Other arguments passed on to <a href="#">scale_fill_gradientn</a>

**Value**

A ggproto object defining a continuous colour scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = cyl, y = disp, fill = cyl)) +
  geom_col() +
  scale_fill_msu_c(palette = "msu_seq")
```

---

`scale_fill_msu_d`*Plotting with MSU palettes for fill colour ggplot2*

---

**Description**

Plotting with MSU palettes for fill colour ggplot2

**Usage**

```
scale_fill_msu_d(palette, direction = 1, ...)
```

**Arguments**

<code>palette</code>	name of palette. Run <code>names(MSUpalettes)</code> to view options.
<code>direction</code>	Sets order of colors. Default direction is 1. If direction is -1, <code>palette_choice</code> color order is reversed
<code>...</code>	Other arguments passed on to <a href="#">discrete_scale</a>

**Value**

A ggproto object defining a discrete fill scale for use with ggplot2.

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = cyl, y = disp, fill = factor(cyl))) +
  geom_col() +
  scale_fill_msu_d(palette = "msu_qual1")
```

---

set_msu_palette	<i>Set MSU base R plotting palette</i>
-----------------	--

---

**Description**

Set MSU base R plotting palette

**Usage**

```
set_msu_palette(palette)
```

**Arguments**

palette            Name of palette. See names(MSUthemes::MSUpalettes).

**Value**

Returns a character vector giving the colors from the palette which was in effect. This is invisible unless the argument is omitted.

**Examples**

```
set_msu_palette("msu_qual1")
```

---

set_msu_par	<i>Set MSUthemes base R graphical parameters</i>
-------------	--

---

**Description**

Set MSUthemes base R graphical parameters

**Usage**

```
set_msu_par(  
  family = "Metropolis",  
  adj = 0,  
  mar = c(5, 3, 3, 2.5),  
  bty = "n",  
  ...  
)
```

**Arguments**

family	Font used for all text elements. Default "Metropolis".
adj	Alignment of text for title. Default 0.
mar	Margins. Default c(5, 3, 3, 2.5).
bty	Axis lines. Default "n".
...	Additional arguments passed to par

**Value**

Returns an invisible named list.

**Examples**

```
# save user's current par values that this function will change
oldpar <- par("family", "adj", "mar", "bty")
set_msu_par()
plot(1:4, 1:4, col=1:4, main = "Title")
par(oldpar)
```

---

theme\_MSU

*Michigan State University (MSU) Theme*

---

**Description**

Custom ggplot2 theme

**Usage**

```
theme_MSU(  
  base_size = 11,  
  base_family = "Metropolis",  
  header_family = NULL,  
  base_line_size = base_size/22,  
  base_rect_size = base_size/22,  
  rel_small = 12/14,  
  rel_tiny = 11/14,  
  rel_large = 16/14,  
  ink = "black",  
  paper = "white",  
  accent = "#3366FF"  
)
```

**Arguments**

base_size	Base font size for text elements. Default 12.
base_family	Font used for all text elements. Default "Metropolis".
header_family	Font family for titles and headers. The default, NULL, uses theme inheritance to set the font. This setting affects axis titles, legend titles, the plot title and tag text.
base_line_size	Base line size is base_size/22
base_rect_size	Base rectangle size is base_size/22
rel_small	Relative size of small text (e.g., axis tick labels)
rel_tiny	Relative size of tiny text (e.g., caption)
rel_large	Relative size of large text (e.g., title)
ink	Text colour. Default "black".
paper	Background colour. Default "white".
accent	Accent colour. Default bright blue, "#3366FF"

**Value**

A ggplot2 theme

**Examples**

```
library(ggplot2)
ggplot(data = mtcars, aes(x = mpg, y = disp, color = wt)) +
  geom_point() +
  theme_MSU()
```

---

view\_all\_palettes      *Prints all available colour palettes*

---

**Description**

Prints all available colour palettes

**Usage**

```
view_all_palettes()
```

**Value**

A plot of all colour palettes available in the package.

**Examples**

```
view_all_palettes()
```

# Index

## \* datasets

- BigTen, 3
- bigten\_colors\_primary, 5
- bigten\_colors\_secondary, 6
- msu\_black, 8
- msu\_blue, 8
- msu\_darkgrey, 9
- msu\_Excellence, 9
- msu\_green, 9
- msu\_grey, 10
- msu\_Kelly, 10
- msu\_Lime, 10
- msu\_orange, 11
- msu\_peach, 11
- msu\_purple, 12
- msu\_red, 12
- msu\_Refresh, 12
- msu\_splitpea, 13
- msu\_teal, 13
- msu\_white, 13
- msu\_yellow, 14
- MSUpalettes, 8

- BigTen, 3
- bigten\_colors\_primary, 5, 5
- bigten\_colors\_secondary, 5, 6

- discrete\_scale, 15, 17–19, 21, 22

- get\_bigten\_colors, 6

- msu\_black, 8
- msu\_blue, 8
- msu\_darkgrey, 9
- msu\_Excellence, 9
- msu\_green, 9
- msu\_grey, 10
- msu\_Kelly, 10
- msu\_Lime, 10
- msu\_orange, 11

- msu\_peach, 11
- msu\_purple, 12
- msu\_red, 12
- msu\_Refresh, 12
- msu\_splitpea, 13
- msu\_teal, 13
- msu\_white, 13
- msu\_yellow, 14
- MSUcols, 7
- MSUpalettes, 8

- print.palette, 14

- scale\_color\_bigten\_c, 15
- scale\_color\_bigten\_d, 15
- scale\_color\_gradientn, 15–17, 19
- scale\_color\_msu\_c, 16
- scale\_color\_msu\_d, 17
- scale\_colour\_bigten\_c, 17
- scale\_colour\_bigten\_d, 18
- scale\_colour\_msu\_c, 19
- scale\_colour\_msu\_d, 19
- scale\_fill\_bigten\_c, 20
- scale\_fill\_bigten\_d, 21
- scale\_fill\_gradientn, 20, 21
- scale\_fill\_msu\_c, 21
- scale\_fill\_msu\_d, 22
- set\_msu\_palette, 23
- set\_msu\_par, 23

- theme\_MSU, 24

- view\_all\_palettes, 25