

Package: nmfspalette (via r-universe)

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Title A Color Palette for NOAA Fisheries

Version 3.3.0.000

Description This is a package that implements a color palette in line with the NOAA Fisheries Branding Guide.

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URL <https://github.com/nmfs-ost/nmfspalette>

BugReports <https://github.com/nmfs-ost/nmfspalette/issues>

Imports cli, ggplot2, graphics, pals, rlang, utils

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all_nmfs_palettes	<i>Return function that shows all nmfs color palettes</i>
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Description

Return function that shows all nmfs color palettes

Usage

```
all_nmfs_palettes()
```

Value

A null object showing all nmfs color palettes in the plot window.

Examples

```
all_nmfs_palettes()
```

display_nmfs_palette	<i>Return interpolated nmfs color palette</i>
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Description

Return interpolated nmfs color palette

Usage

```
display_nmfs_palette(name, n)
```

Arguments

- | | |
|------|---|
| name | Character name of palette in nmfs_palettes. |
| n | Number of colors in palette. |

Value

An object showing a specific nmfs color palette in the plot window.

Examples

```
display_nmfs_palette("oceans", 10)
```

nmfs_cols	<i>Function to extract nmfs colors as hex codes</i>
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Description

Function to extract nmfs colors as hex codes

Usage

```
nmfs_cols(...)
```

Arguments

... Character names of nmfs_colors

Examples

```
nmfs_cols("processblue")
```

nmfs_palette	<i>Return function to interpolate a nmfs color palette</i>
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Description

Return function to interpolate a nmfs color palette

Usage

```
nmfs_palette(palette = "oceans", reverse = FALSE, ...)
```

Arguments

palette Character name of palette in nmfs_palettes. Default value is "oceans".
reverse Boolean indicating whether the palette should be reversed. Default value is FALSE.
... Additional arguments to pass to [grDevices::colorRampPalette\(\)](#).

Examples

```
nmfs_palette("oceans")(10)  
  
# or equivalently  
oceans_pal <- nmfs_palette("oceans")  
oceans_pal(10)
```

scale_color_nmfs *Color scale constructor for nmfs colors*

Description

Color scale constructor for nmfs colors

Usage

```
scale_color_nmfs(
  palette = "oceans",
  discrete = TRUE,
  reverse = FALSE,
  interpolate = TRUE,
  ...
)
```

Arguments

palette	Character name of palette in <code>nmfs_palettes</code> . Default value is "oceans".
discrete	Boolean indicating whether color aesthetic is discrete. Default is TRUE.
reverse	Boolean indicating whether the palette should be reversed. Default is FALSE.
interpolate	Boolean indicating whether the colors assigned to plot objects should interpolated from palettes, with the alternative that only the defined colors in the palette are used. Default is TRUE.
...	Additional arguments passed to: <code>ggplot2::scale_color_gradientn()</code> when discrete is TRUE; <code>ggplot2::discrete_scale()</code> when discrete is FALSE and interpolate is TRUE; and <code>ggplot2::scale_color_manual()</code> when discrete is FALSE and interpolate is FALSE.

Examples

```
library(ggplot2)
ggplot(iris, aes(Sepal.Width, Sepal.Length, color = Species)) +
  geom_point(size = 4) +
  scale_color_nmfs("coral")

ggplot(mtcars, aes(mpg, disp, color = as.factor(gear))) +
  geom_point(size = 4) +
  scale_color_nmfs("regional",
    interpolate = FALSE,
    discrete = TRUE
  )
```

scale_fill_nmfs

Fill scale constructor for nmfs colors

Description

Fill scale constructor for nmfs colors

Usage

```
scale_fill_nmfs(
  palette = "oceans",
  discrete = TRUE,
  reverse = FALSE,
  interpolate = TRUE,
  ...
)
```

Arguments

palette	Character name of palette in <code>nmfs_palettes</code> . Default value is "oceans".
discrete	Boolean indicating whether color aesthetic is discrete. Default is TRUE.
reverse	Boolean indicating whether the palette should be reversed. Default is FALSE.
interpolate	Boolean indicating whether the colors assigned to plot objects should interpolated from palettes, with the alternative that only the defined colors in the palette are used. Default is TRUE.
...	Additional arguments passed to: <code>ggplot2::scale_fill_gradientn()</code> when discrete is TRUE; <code>ggplot2::discrete_scale()</code> when discrete is FALSE and interpolate is TRUE; and <code>ggplot2::scale_fill_manual()</code> when discrete is FALSE and interpolate is FALSE.

Examples

```
library(ggplot2)
ggplot(mpg, aes(x = hwy, y = cty, fill = cyl)) +
  geom_point(shape = 21) +
  theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
  scale_fill_nmfs(palette = "crustacean", discrete = FALSE)

ggplot(mtcars, aes(mpg, disp, color = as.factor(gear))) +
  geom_point(size = 4) +
  scale_fill_nmfs("regional",
    interpolate = FALSE,
    discrete = TRUE
  )
```

 theme_nmfs

Create theme for nmfs colors

Description

Create theme for nmfs colors

Usage

```
theme_nmfs(
  palette = "oceans",
  discrete = TRUE,
  reverse = FALSE,
  interpolate = TRUE,
  base_size = 14,
  lab_size = 12,
  ink = "black",
  paper = "white",
  accent = "#003087",
  ...
)
```

Arguments

palette	Character name of palette in nmfs_palettes. Default value is "oceans".
discrete	Boolean indicating whether color aesthetic is discrete. Default is TRUE.
reverse	Boolean indicating whether the palette should be reversed. Default is FALSE.
interpolate	Boolean indicating whether the colors assigned to plot objects should interpolated from palettes, with the alternative that only the defined colors in the palette are used. Default is TRUE.
base_size	The base font size, as defined in the <code>ggplot2::theme_gray()</code> function
lab_size	The axis text size
ink	The plot foreground color, as defined in the <code>ggplot2::theme_gray()</code> function
paper	The plot background color, as defined in the <code>ggplot2::theme_gray()</code> function
accent	The plot's accented elements' color, as defined in the <code>ggplot2::theme_gray()</code> function
...	Additional arguments passed to: <code>ggplot2::scale_fill_gradientn()</code> when discrete is TRUE; <code>ggplot2::discrete_scale()</code> when discrete is FALSE and interpolate is TRUE; and <code>ggplot2::scale_fill_manual()</code> when discrete is FALSE and interpolate is FALSE.

Value

A theme that applies nmfs color palettes and theme-related elements (such as label sizes, borders, axis lines, and more) to a plot. For more information about the ggplot2 advances that enabled this function, check out the [ggplot2 version 4.0.0 release notes](#).

Examples

```
library(ggplot2)
ggplot(mtcars, aes(x = mpg, y = disp, color = as.factor(cyl))) +
  geom_point(size = 3) +
  theme_nmfs(discrete = TRUE, interpolate = TRUE, palette = "crustacean")
ggplot(mtcars, aes(x = mpg, y = disp, color = as.factor(cyl))) +
  geom_point(size = 3) +
  theme_nmfs(discrete = TRUE, interpolate = FALSE, palette = "crustacean")
ggplot(mtcars, aes(x = mpg, y = disp, fill = hp)) +
  geom_point(size = 3, shape = 24) +
  theme_nmfs(discrete = FALSE, interpolate = TRUE, palette = "seagrass")
```

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