

ggplot themes and scales

358 commits2 branches5 releases10 contributors

branch: master

ggthemes / +

bump to 2.1.3

jrnlold

 authored 2 days ago

latest commit 2ba9acfed0

R	bump to 2.1.2	4 days ago
man	remove % from URLs in \href	5 days ago
stata	added dofile to generate example stata graphs	3 years ago
vignettes	update docs and fix typos	3 months ago
.Rbuildignore	ignore travis.yml	3 months ago
.gitignore	add R project file	6 days ago
.travis.yml	change latticeExtras to latticeExtra	2 days ago
DESCRIPTION	bump to 2.1.3	2 days ago
Makefile	added dependencies to README.md	3 months ago
NAMESPACE	roxygenization	6 days ago
NEWS	bump to 2.1.2	4 days ago
README.Rmd	add travis build status image	3 months ago
README.md	fix typo	2 days ago
cran-comments.md	added cran-comments.md	3 months ago
ggthemes.Rproj	add R project file	6 days ago
make-README.R	added vignette	5 months ago

README.md

build passing

ggthemes

Overview

Some extra geoms, scales, and themes for ggplot, including:

Geoms

- geom_rangeframe : Tufte's range frame

Code

Issues0Pull Requests0Wiki

Pulse

Graphs

HTTPS clone URLhttps://github.com/jrnlold

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- `geom_tufteboxplot` : Tufte's box plot

Themes

- `theme_calc` : a theme based on LibreOffice Calc.
- `theme_economist` : a theme based on the plots in the [The Economist](#) magazine.
- `theme_excel` : a theme replicating the classic ugly gray charts in Excel
- `theme_few` : theme from Stephen Few's "[Practical Rules for Using Color in Charts](#)".
- `theme_fivethirtyeight` : a theme based on the plots at [fivethirtyeight.com](#).
- `theme_gdocs` : a theme based on Google Docs.
- `theme_hc` : a theme based on [Highcharts JS](#).
- `theme_pander` : a theme to use with the [pander](#) package.
- `theme_solarized` : a theme using the [solarized](#) color palette.
- `theme_stata` : themes based on [Stata](#) graph schemes.
- `theme_tufte` : a minimal ink theme based on Tufte's *The Visual Display of Quantitative Information*.
- `theme_wsj` : a theme based on the plots in the [The Wall Street Journal](#).

Scales

- `scale_colour_calc` , `scale_shape_calc` : color and shape palettes from LibreOffice Calc.
- `scale_colour_colorblind` : Colorblind safe palette from <http://jfly.iam.u-tokyo.ac.jp/color/>.
- `scale_colour_economist` : colors used in plots in plots in *The Economist*.
- `scale_colour_excel` : colors from new and old Excel.
- `scale_colour_few` : color palettes from Stephen Few's "[Practical Rules for Using Color in Charts](#)".
- `scale_colour_gdocs` : color palette from Google Docs.
- `scale_colour_hc` : a theme based on [Highcharts JS](#).
- `scale_colour_solarized` : [Solarized](#) colors
- `scale_colour_stata` , `scale_shapes_stata` , `scale_linetype_stata` : color, shape, and linetype palettes from Stata graph schemes.
- `scale_colour_tableau` , `scale_shape_tableau` : color and shape palettes from [Tableau](#).
- `scale_colour_pander` , `scale_fill_pander` : scales to use with the [pander](#) package.
- `scale_shape_cleveland` , `scale_shape_tremmel` , `scale_shape_circlefill` : shape scales from classic works in visual perception: Cleveland, Tremmel (1995), and Lewandowsky and Spence (1989).
- `scale_x_tufte` , `scale_y_tufte` : x and y scales with pretty labels that also include the min and max values.

Most of these scales also have associates palettes, as used in the *scales* package.

Miscellaneous

- `bank_slopes` : Find the optimal aspect ratio to bank slopes to 45 degrees

Install

To install the stable version from CRAN,

```
install.packages('ggthemes', dependencies = TRUE)
```

Or, to install the development version from github, use the **devtools** package,

```
library("devtools")
install_github("jrnold/ggthemes")
```

Windows users also must first install [Rtools](#).

Contribute

Contributions are welcome! If you would like to add a theme, scales, etc., fork the repository, add your theme, and submit a pull request.

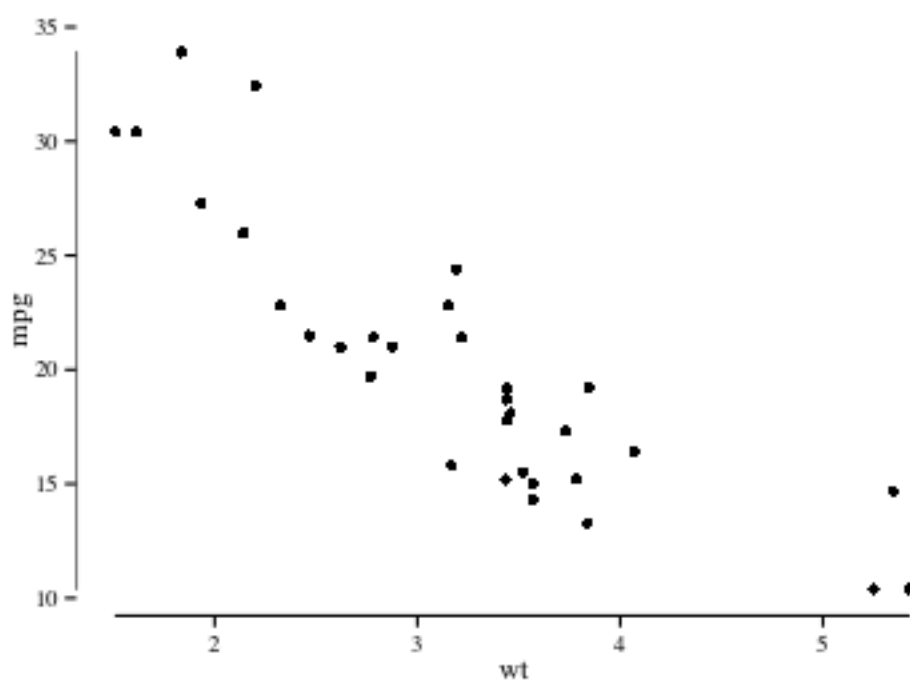
Examples

```
library("ggplot2")
library("ggthemes")
dsamp <- diamonds[sample(nrow(diamonds), 1000), ]
```

Tufte theme and geoms

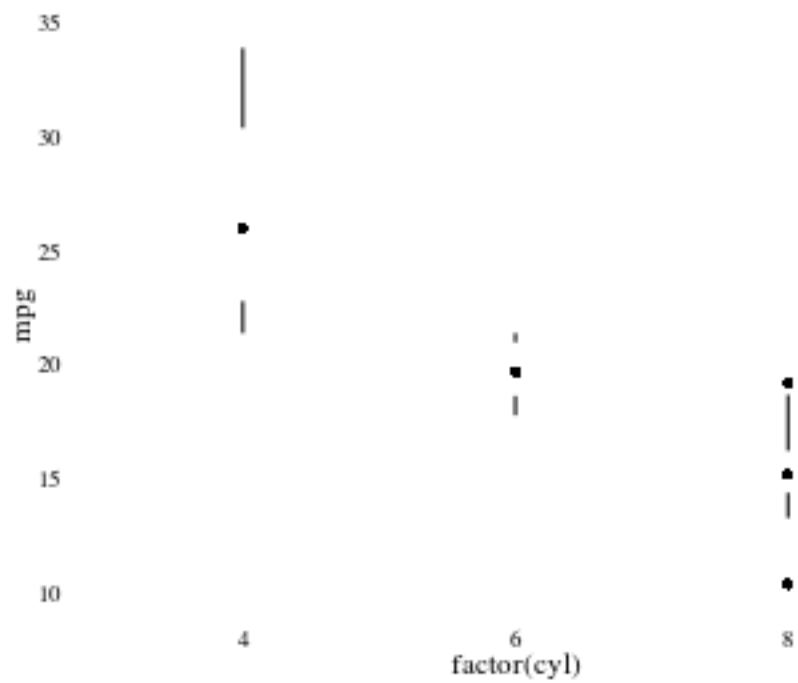
Minimal theme and geoms based on plots in *The Visual Display of Quantitative Information*.

```
(ggplot(mtcars, aes(wt, mpg))
+ geom_point() + geom_rangeframe()
+ theme_tufte())
```



The Tufte minimal boxplot.

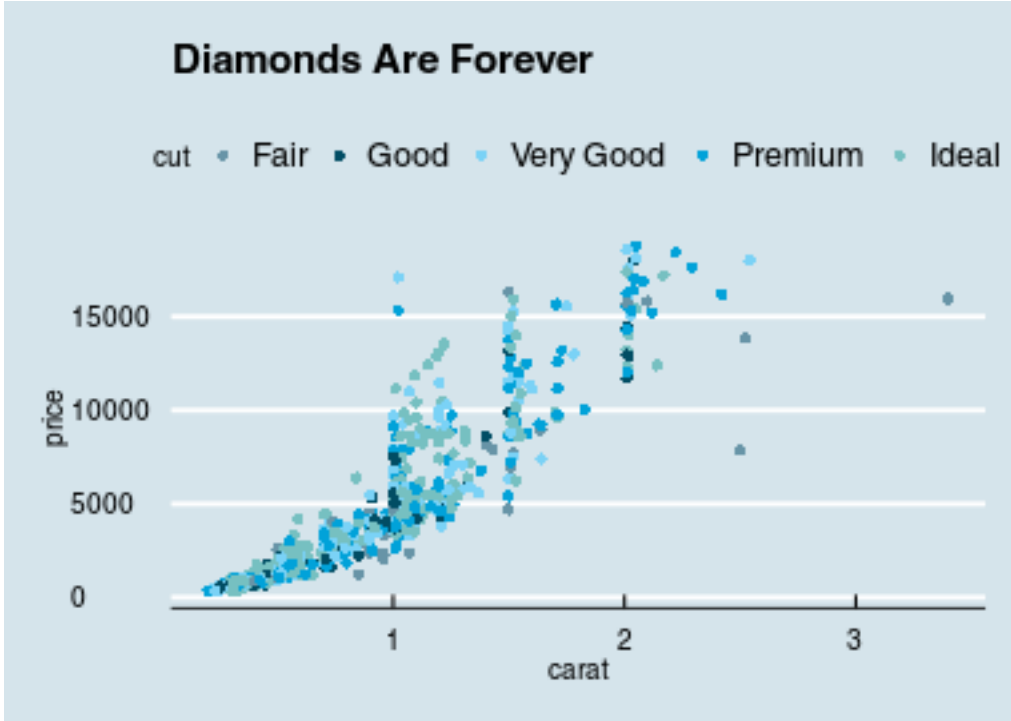
```
(ggplot(mtcars, aes(factor(cyl), mpg))
+ theme_tufte(ticks=FALSE)
+ geom_tufteboxplot())
```



Economist theme

A theme that approximates the style of plots in The Economist magazine.

```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_economist()
+ scale_colour_economist()
+ ggtitle("Diamonds Are Forever"))
```

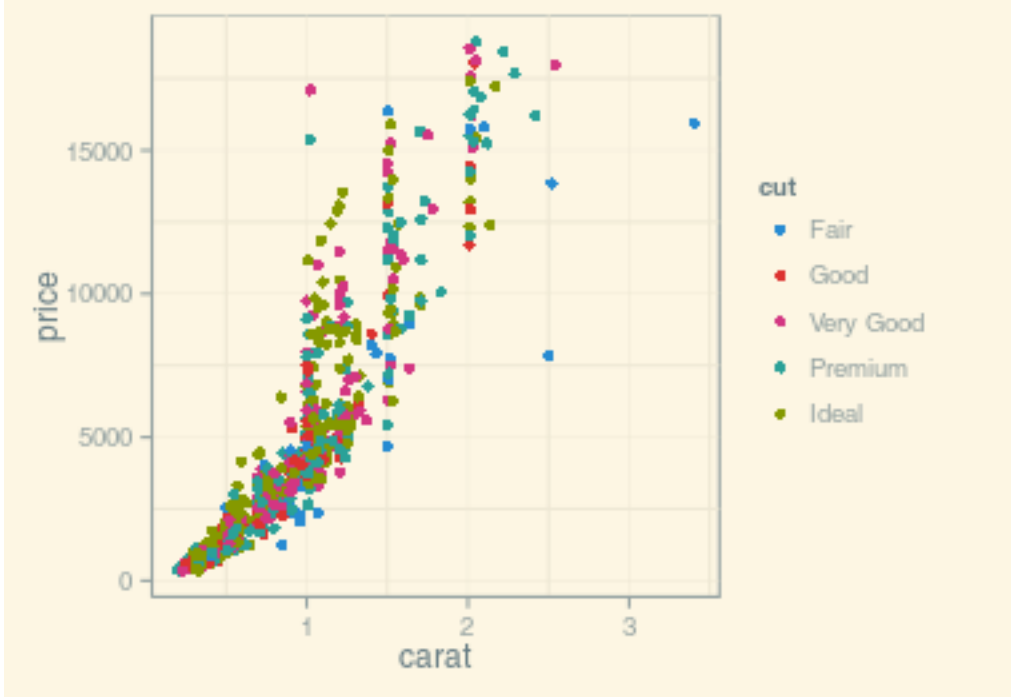


Solarized theme

A theme and color and fill scales based on the Solarized palette.

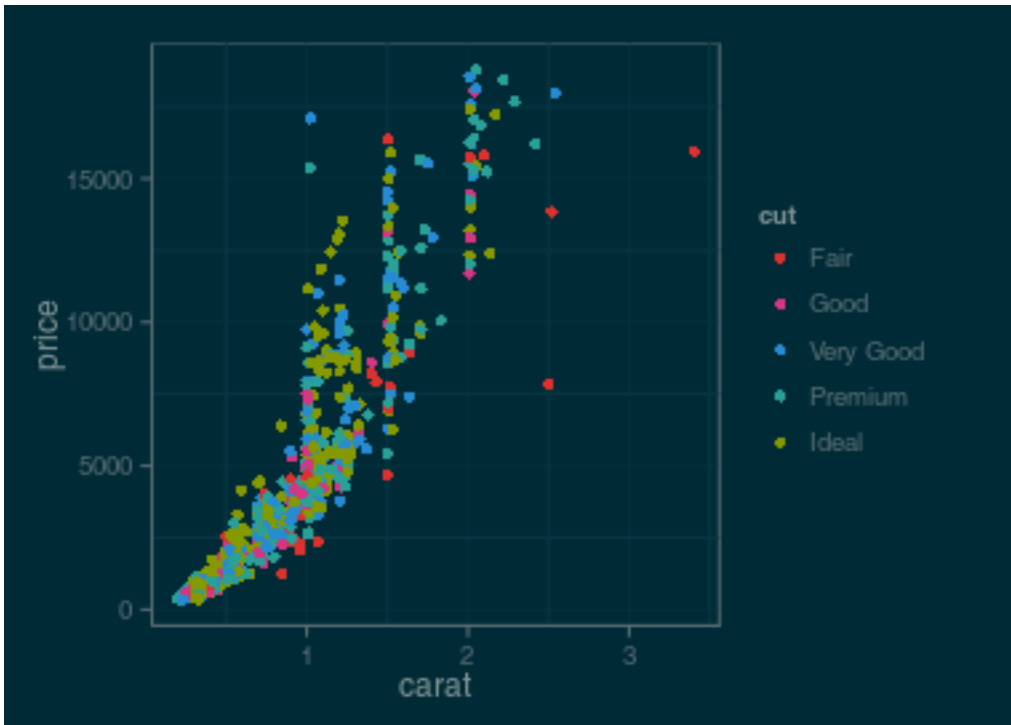
The light theme.

```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_solarized()
+ scale_colour_solarized("blue"))
```



The dark theme.

```
(qplot(carat, price, data=dsamp, colour=cut)
  + theme_solarized(light=FALSE)
  + scale_colour_solarized("red"))
```



An alternative theme.

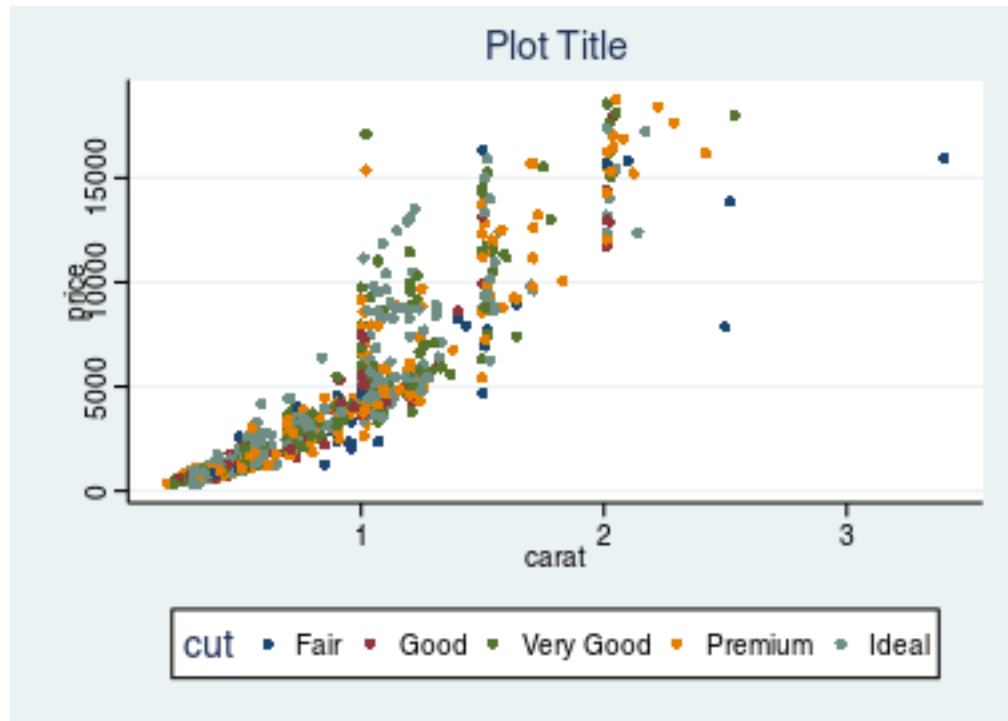
```
(qplot(carat, price, data=dsamp, colour=cut)
  + theme_solarized_2()
  + scale_colour_solarized("blue"))
```



Stata theme

Themes and scales (color, fill, linetype, shapes) based on the graph schemes in Stata.

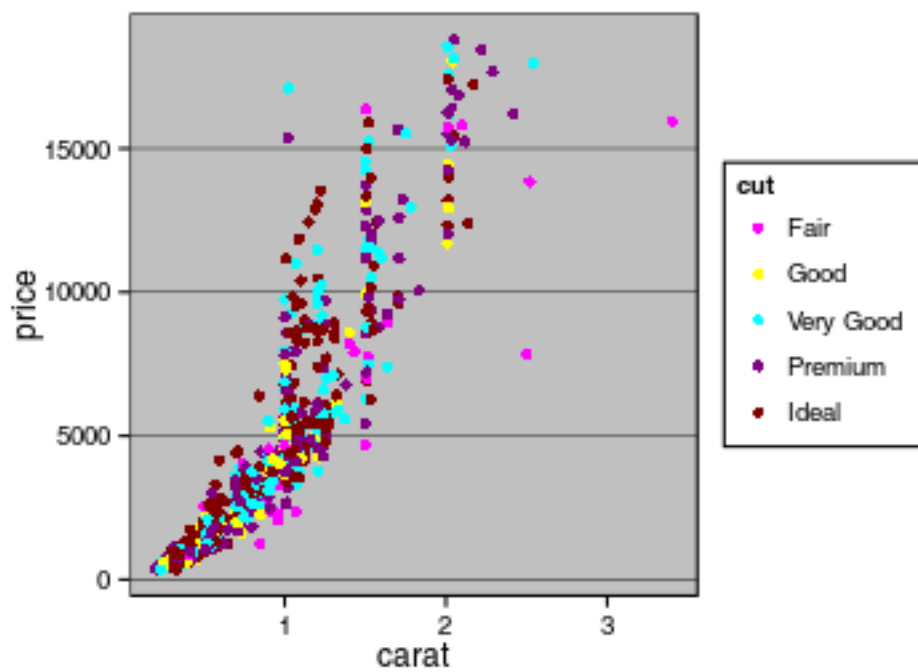
```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_stata()
+ scale_colour_stata()
+ ggtitle("Plot Title"))
```



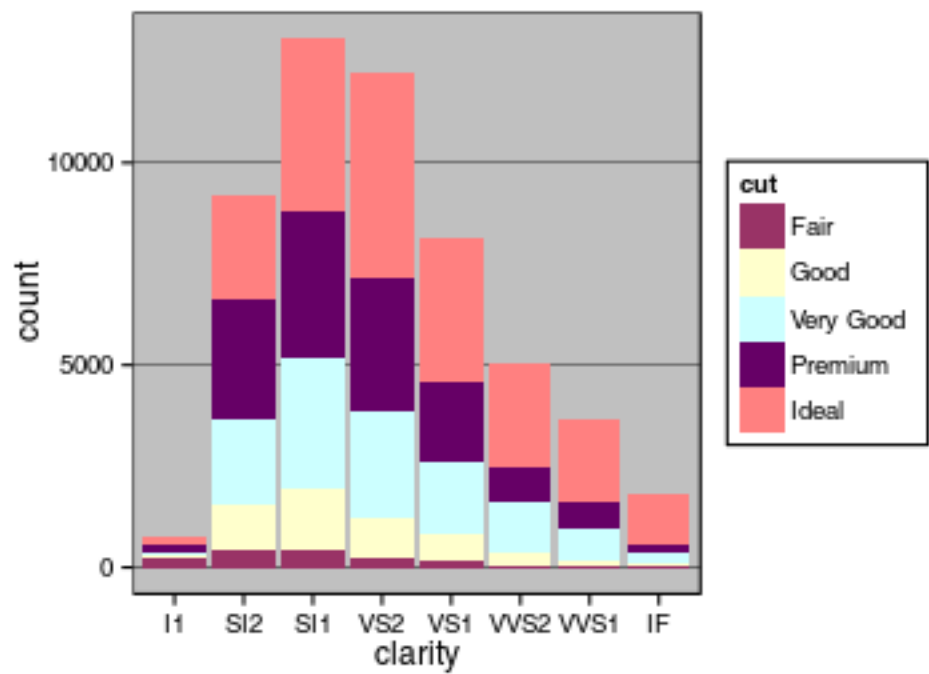
Excel 2003 theme

For that classic ugly look and feel. For ironic purposes only. 3D bars and pies not included. Please never use this theme.

```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_excel()
+ scale_colour_excel())
```



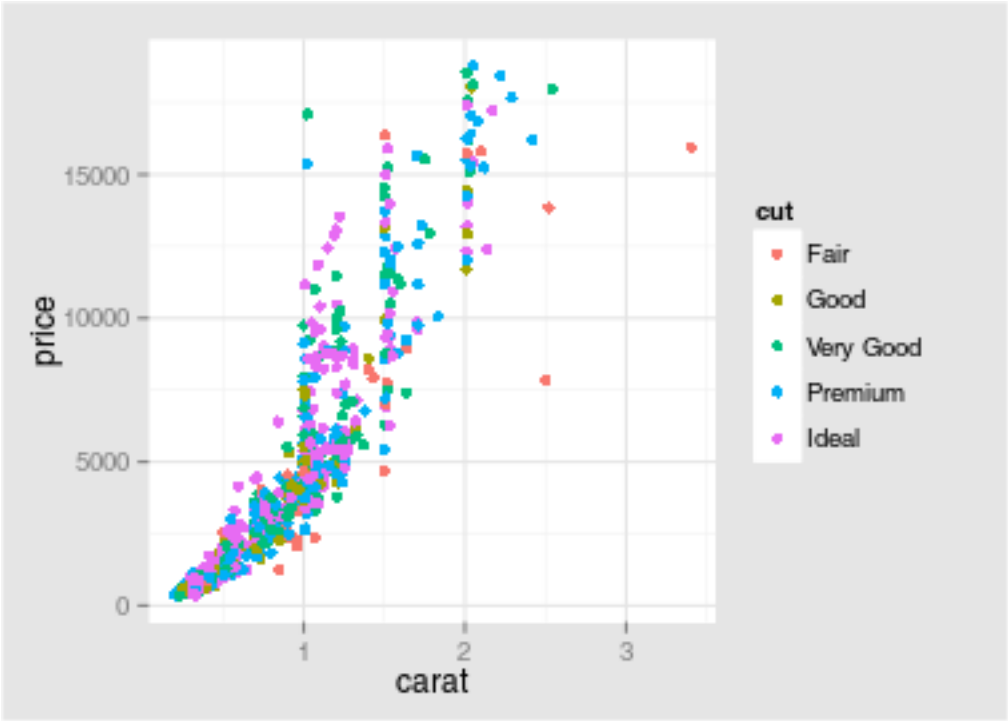
```
(ggplot(diamonds, aes(clarity, fill=cut))
+ geom_bar()
+ scale_fill_excel()
+ theme_excel())
```



Inverse Gray Theme

Inverse of `theme_gray`, i.e. white plot area and gray background.

```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_igray())
```



Fivethirtyeight theme

Theme and color palette based on the plots at fivethirtyeight.com.

```
(qplot(hp, mpg, data= subset(mtcars, cyl != 5), geom="point", color = factor(cyl))
+ geom_smooth(method = "lm", se = FALSE)
+ scale_color_fivethirtyeight()
+ theme_fivethirtyeight())
```

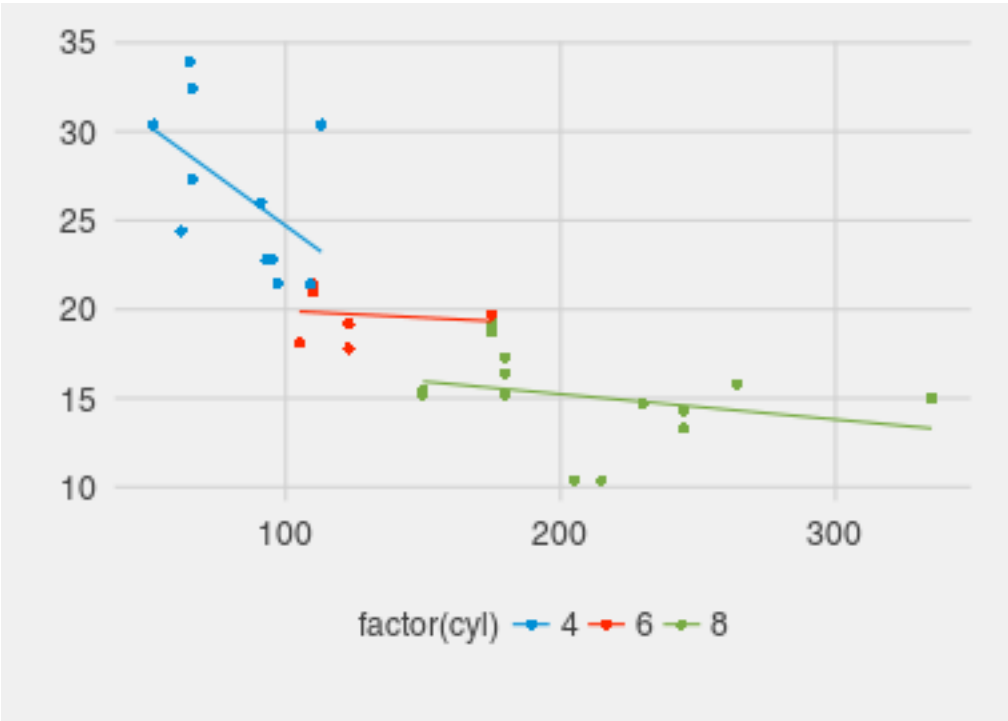
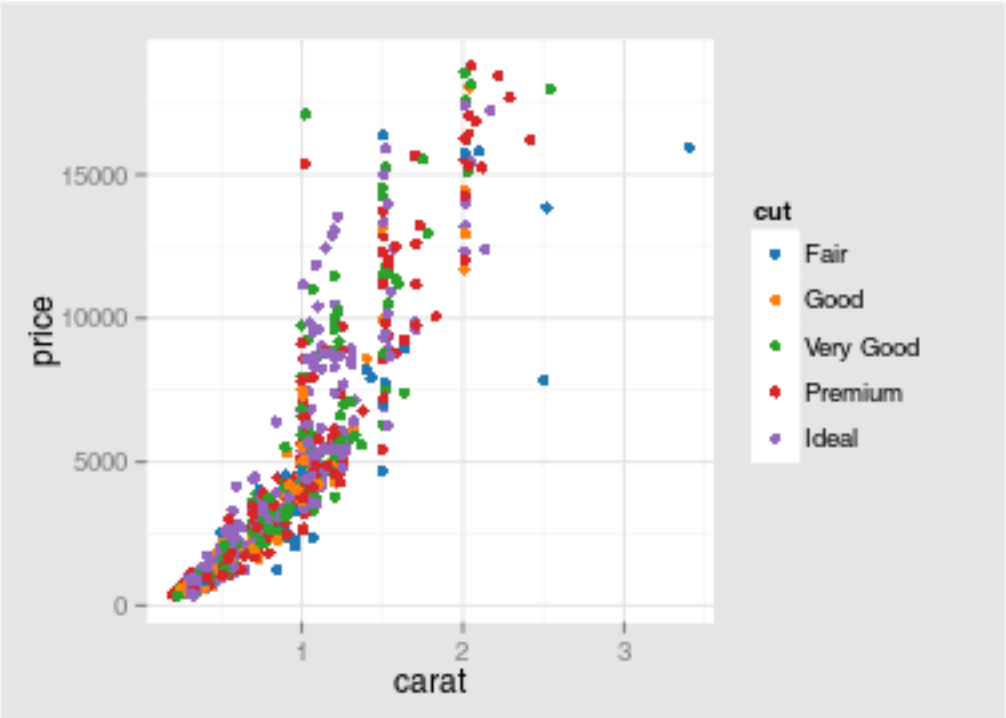


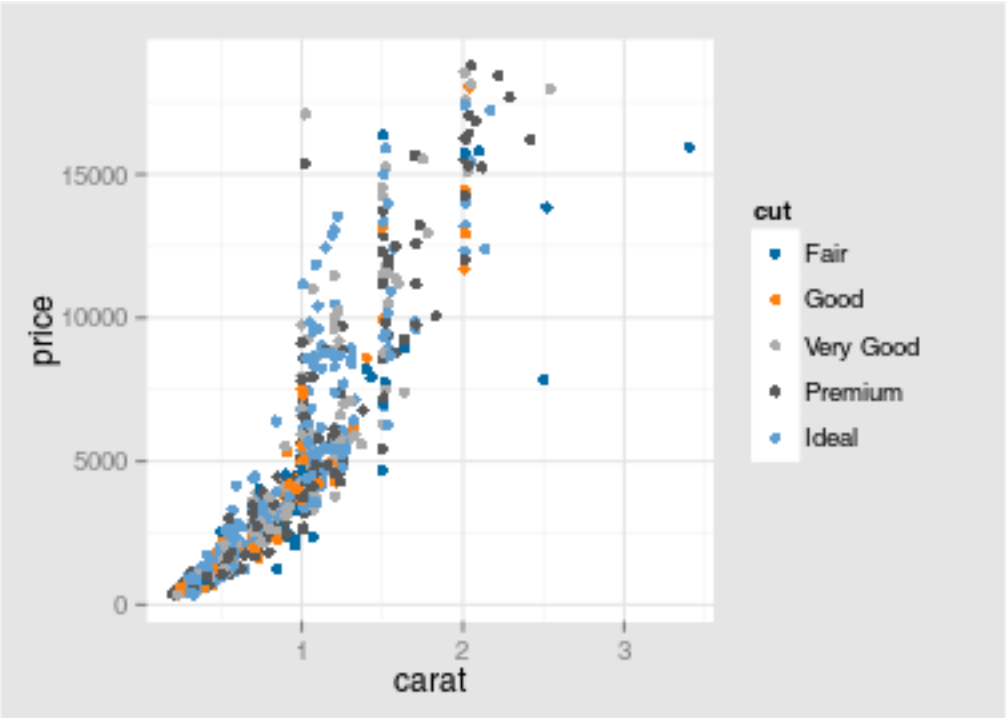
Tableau Scales

Color, fill, and shape scales based on those used in the Tableau software.

```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_igray()
+ scale_colour_tableau())
```



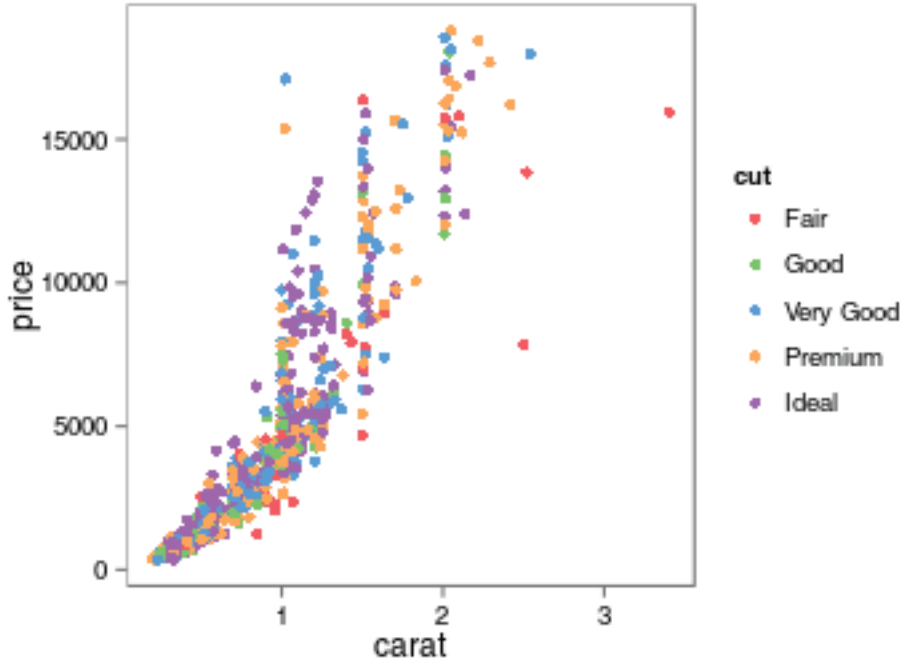
```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_igray()
+ scale_colour_tableau("colorblind10"))
```



Stephen Few's Practical Rules for Using Color ...

Color palette and theme based on Stephen Few's ["Practical Rules for Using Color in Charts"](#).

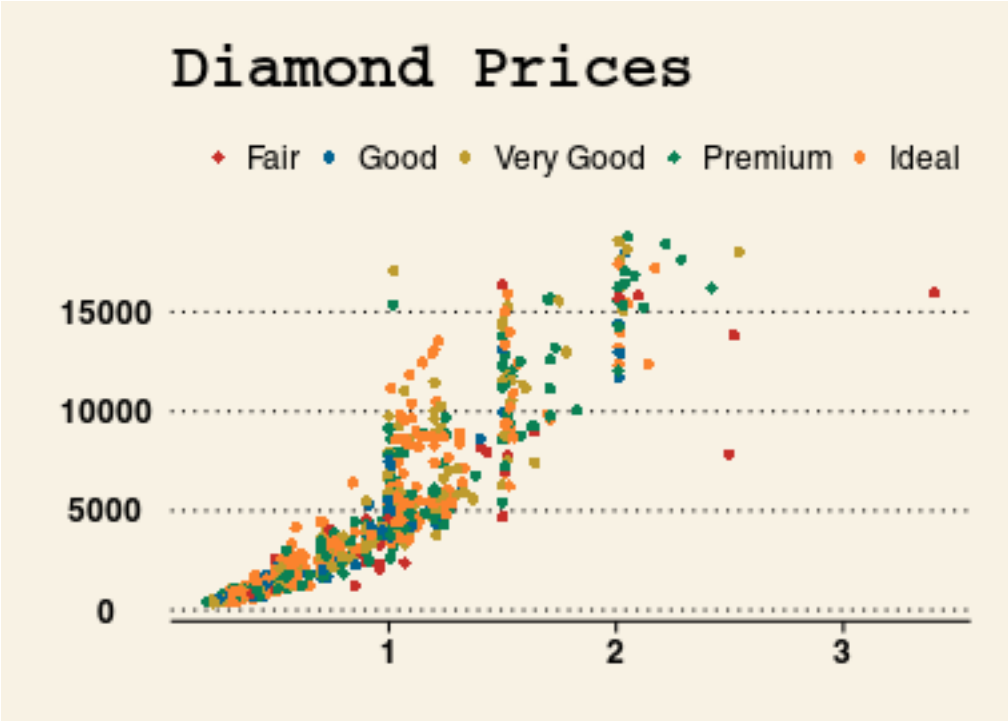
```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_few()
+ scale_colour_few())
```

Wall Street Journal

Theme and some color palettes based on plots in the *The Wall Street Journal*.

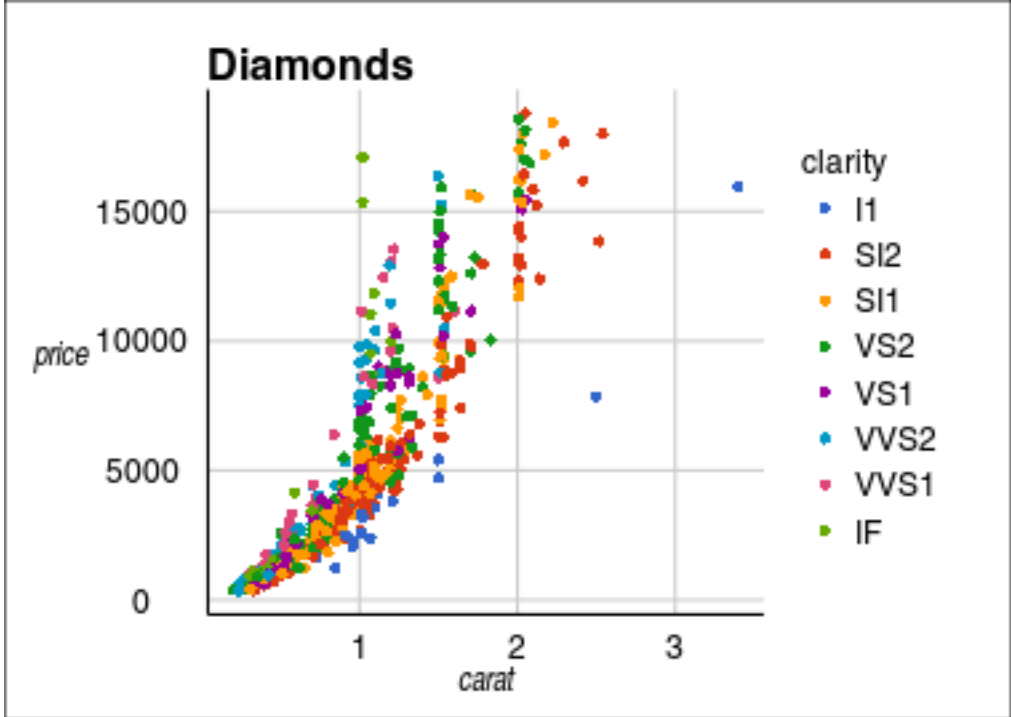
```
(qplot(carat, price, data=dsamp, colour=cut)
+ theme_wsj()
+ scale_colour_wsj("colors6", "")
+ ggtitle("Diamond Prices"))
```



GDocs Theme

Theme and color palettes based on the defaults in Google Docs.

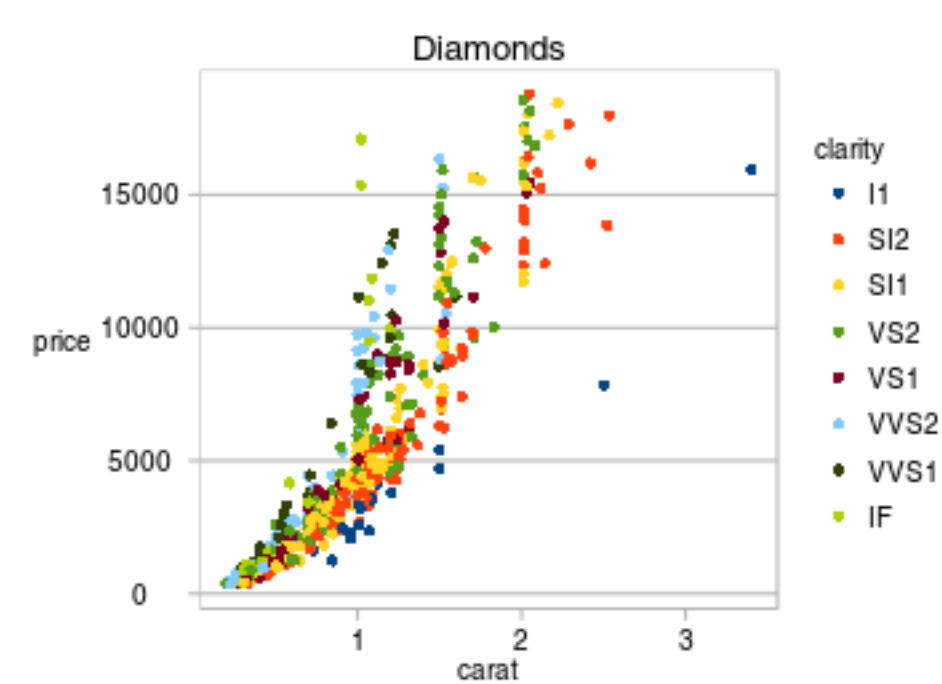
```
(qplot(carat, price, data=dsamp, colour=clarity)
+ theme_gdocs()
+ ggtitle("Diamonds")
+ scale_color_gdocs())
```



Calc Theme

Theme and color and shape palettes based on the defaults in LibreOffice Calc.

```
(qplot(carat, price, data=dsamp, colour=clarity)
+ theme_calc()
+ ggtitle("Diamonds")
+ scale_color_calc())
```

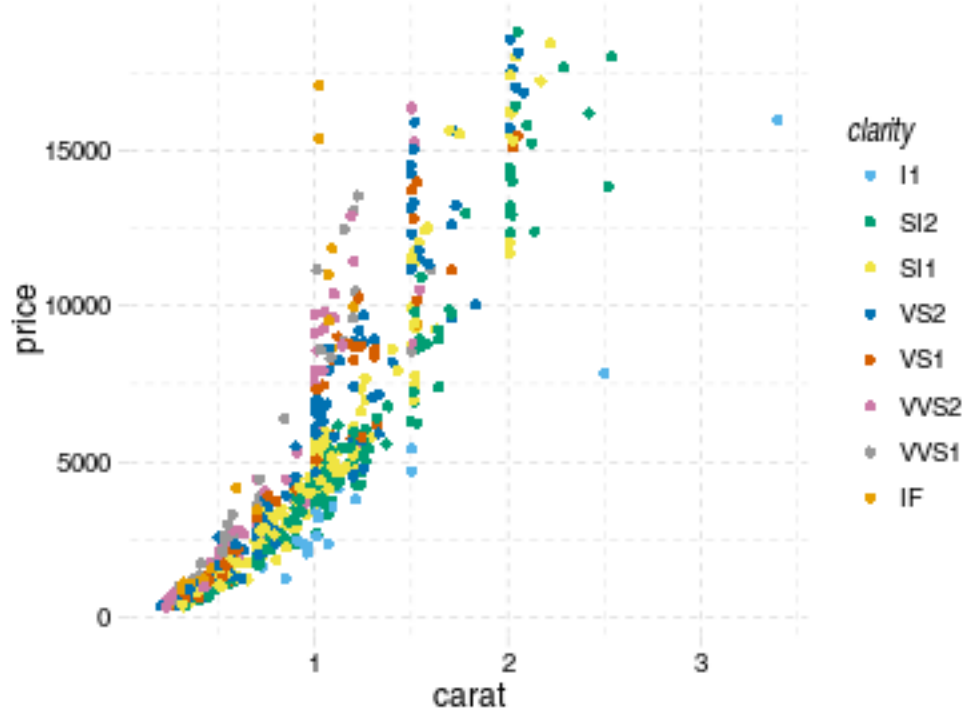


Pander Theme

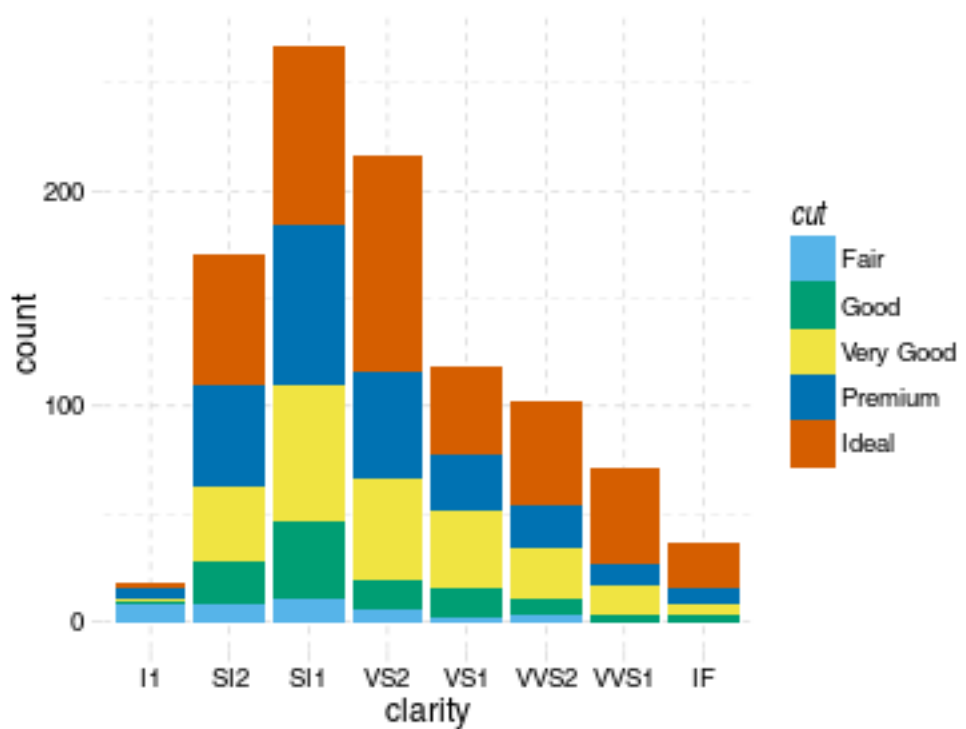
Theme and color palettes based on the [pander package](#).

```
(qplot(carat, price, data = dsamp, colour = clarity)
+ theme_pander()
+ scale_colour_pander())
```

```
## Loading required package: pander
```



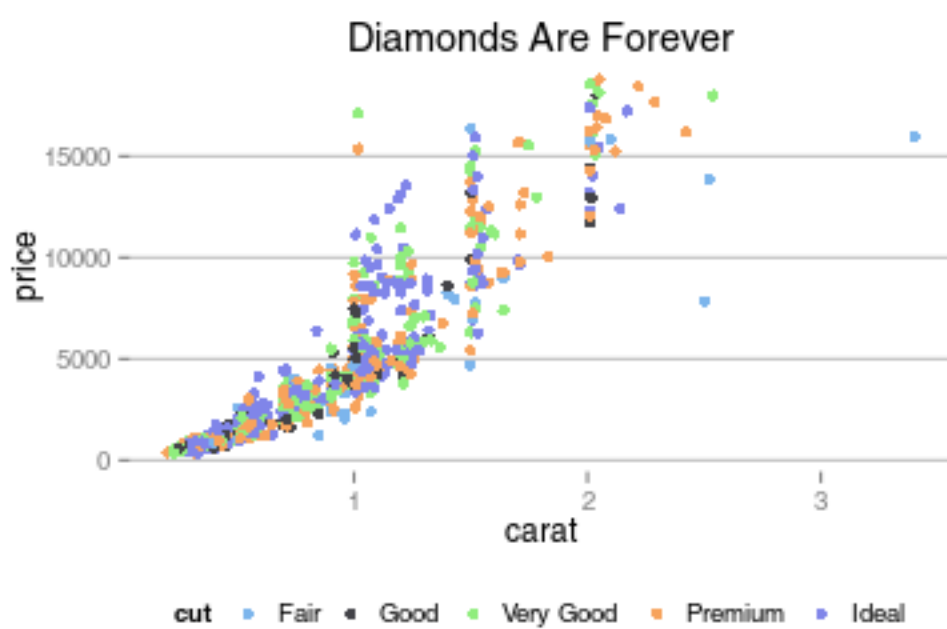
```
(ggplot(dsamp, aes(clarity, fill = cut)) + geom_bar()
+ theme_pander()
+ scale_fill_pander())
```



Highcharts theme

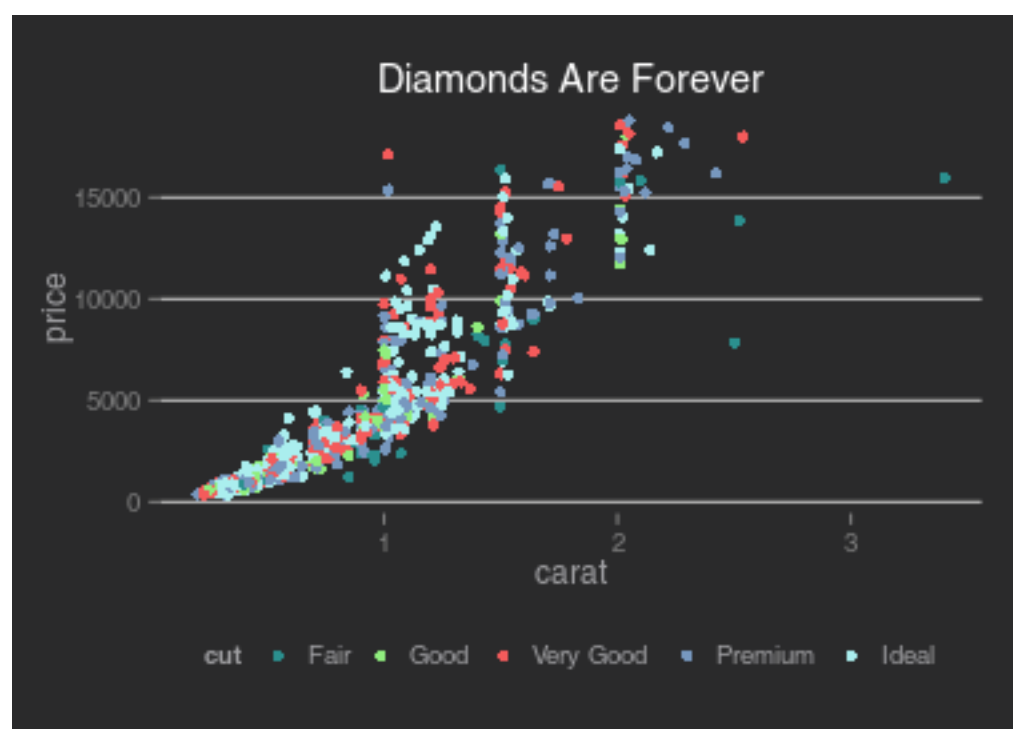
A theme that approximates the style of plots in [Highcharts JS](#).

```
(qplot(carat, price, data = dsamp, colour = cut)
+ theme_hc()
+ scale_colour_hc()
+ ggtitle("Diamonds Are Forever"))
```



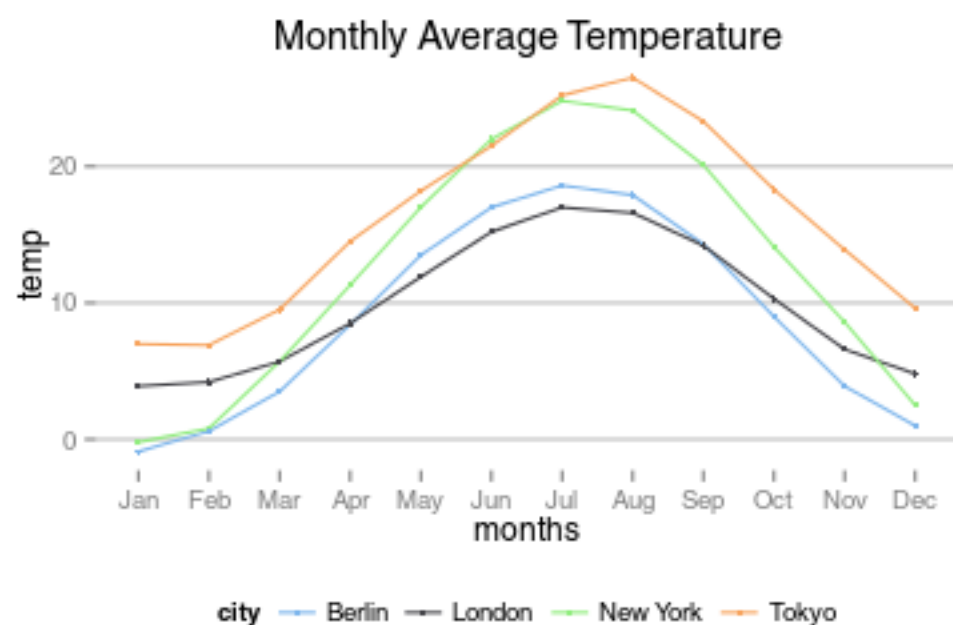
```
(qplot(carat, price, data = dsamp, colour = cut)
+ theme_hc(bgcolor = "darkunica")
+ scale_colour_hc("darkunica"))
```

```
+ ggtitle("Diamonds Are Forever"))
```



```
dtemp <- data.frame(months = factor(rep(substr(month.name,1,3), 4), levels = substr(month.name,1,3)),
  city = rep(c("Tokyo", "New York", "Berlin", "London"), each = 12),
  temp = c(7.0, 6.9, 9.5, 14.5, 18.2, 21.5, 25.2, 26.5, 23.3, 18.3, 13.9, 9.5,
    -0.2, 0.8, 5.7, 11.3, 17.0, 22.0, 24.8, 24.1, 20.1, 14.1, 8.6, 2.5,
    -0.9, 0.6, 3.5, 8.4, 13.5, 17.0, 18.6, 17.9, 14.3, 9.0, 3.9, 1.0,
    3.9, 4.2, 5.7, 8.5, 11.9, 15.2, 17.0, 16.6, 14.2, 10.3, 6.6, 4.8))
```

```
qplot(months, temp, data=dtemp, group=city, color=city, geom="line") +
  geom_point(size=1.1) +
  ggtitle("Monthly Average Temperature") +
  theme_hc() +
  scale_colour_hc()
```



```
qplot(months, temp, data=dtemp, group=city, color=city, geom="line") +
  geom_point(size=1.1) +
  ggtitle("Monthly Average Temperature") +
  theme_hc(bgcolor = "darkunica") +
  scale_fill_hc("darkunica")
```

