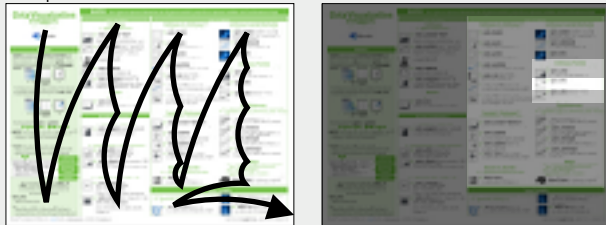# Four Column
layout
Cheat Sheet

Basics

Thank you for making a new cheatsheet for R! These cheatsheets have an important job:

Cheatsheets make it easy for R users to look up useful information.

Remember that the best cheatsheets are **visual**—not written—documents. Whenever possible use visual elements to make it easier for readers to find the information they need.

1. Use a **layout** that flows from top to bottom and left to right to make it easy to zero in on specific topics.

2. Use **visualizations** to explain concepts quickly and concisely.

summary function

3. Use visual elements to make the sheet **scannable**.

j + **geom_area()**
   x, y, alpha, color, fill, linetype, size

j + **geom_line()**
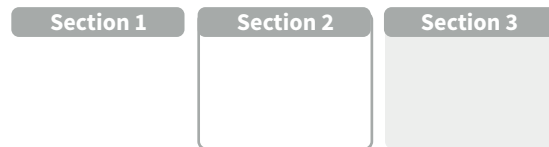   x, y, alpha, color, linetype, size

4. Use visual **emphasis** (like color, size, and font weight) to make important information easy to find.

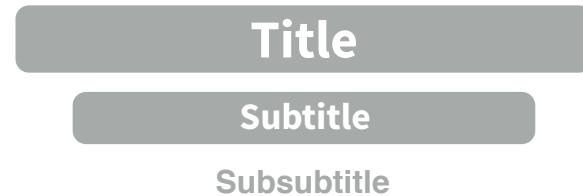dplyr::**bind_rows(y, z)**
   Append z to y as new rows.

Title - Group sections with titles, subtitles, and subsubtitles to create a visual hierarchy

Layout suggestions

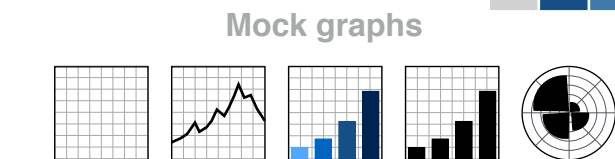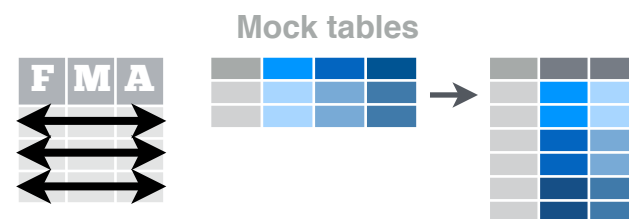Use headers, outlines, and/or backgrounds to **separate or group together sections**.

| Section 1 | Section 2 | Section 3 |

Use titles, subtitles, and subsubtitles to **create a visual hierarchy** that will help users navigate the page.

Title

Subtitle

Subsubtitle

Fit sections to content. Try several different layouts.

Use numbers or arrows to link sections if the order/**flow** is confusing.

Useful elements

icons

These are just font awesome characters

Mock tables

F M A

Mock graphs

Tables

expect_equal()	is equal within small numerical
expect_identical()	is exactly equal?
expect_match()	matches specified string or regular
expect_output()	prints specified output?

Copyright

Each cheatsheet should be licensed under the creative commons license.

To license the sheet as creative commons, put CC'd by <your name> in the small print at the bottom of each page and link it to **http://creativecommons.org/licenses/by/4.0/**

Subtitle

Example code

Where possible, use **code that works** when run.

dplyr::**lead**
   Copy with values shifted by 1.

dplyr::**lag**
   Copy with values lagged by 1.

dplyr::**dense_rank**
   Ranks with no gaps.

dplyr::**min_rank**
   Ranks. Ties get min rank.

dplyr::**percent_rank**
   Ranks rescaled to [0, 1].

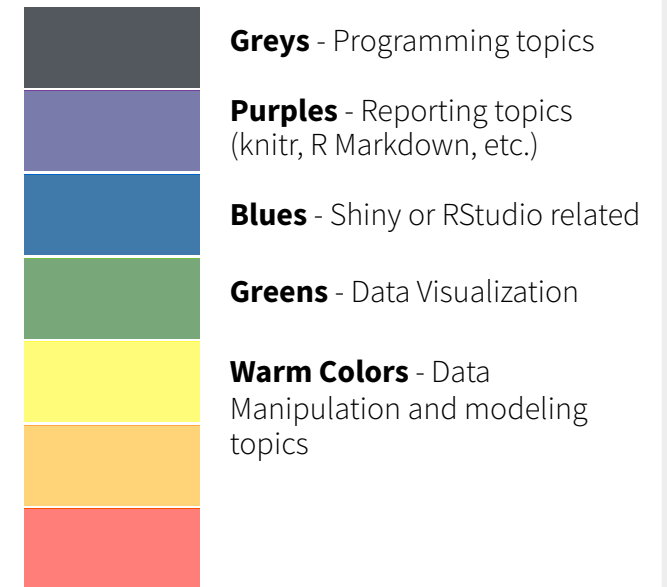dplyr::**row_number**
   Ranks. Ties got to first value.

dplyr::**ntile**
   Bin vector into n buckets.

dplyr::**between**
   Are values between a and b?

dplyr::**cume_dist**
   Cumulative distribution.

Code snippets

```
ggplot(mpg, aes(hwy, cty)) +
  geom_point(aes(color = cyl)) +
  geom_smooth(method ="lm") +
  coord_cartesian() +
  scale_color_gradient() +
  theme_bw()
```

Word balloons **can be useful for** **explaining code**

Color Scheme

Please use the following **color scheme** when designing new cheatsheets to be distributed through http://www.rstudio.com/resources/cheatsheets/

Greys - Programming topics

Purples - Reporting topics (knitr, R Markdown, etc.)

Blues - Shiny or RStudio related

Greens - Data Visualization

Warm Colors - Data Manipulation and modeling topics

Keynote

I make my cheatsheets in **Apple Keynote**, and not latex or R Markdown, because presentation software makes it much easier to tweak the visual appearance of a document

Keynote tips

- **Select multiple elements** by holding down shift and then selecting each. Click on a selected element before letting go of shift to unselect it.
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Fonts

This template uses several fonts: **Helvetica Neue**, `Menlo`, **Source Sans pro**, which you can acquire for free here, http://www.fontsquirrel.com/fonts/source-sans-pro, and **Font Awesome**, which you can acquire here, http://fortawesome.github.io/Font-Awesome/get-started/

To use a **font awesome** icon, copy and paste one from here http://fortawesome.github.io/Font-Awesome/cheatsheet/. Then set the text font to font awesome.

Three Column
layout
Cheat Sheet

Layout Suggestions

Use headers, outlines, and/or backgrounds to **separate or group together sections**.

Create a visual hierarchy. Help users navigate the page with titles, subtitles, and subsubtitles

Fit sections to content. Try several different layouts.

Section 1	Section 2	Section 3

Title
Subtitle
Subsubtitle

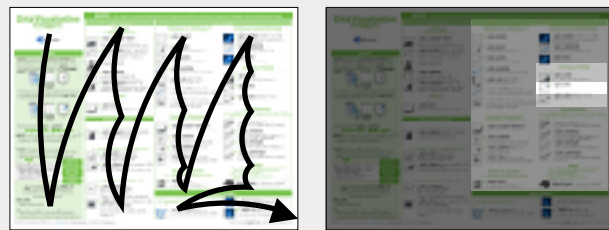Use numbers or arrows to link sections if the order/**flow** is confusing.

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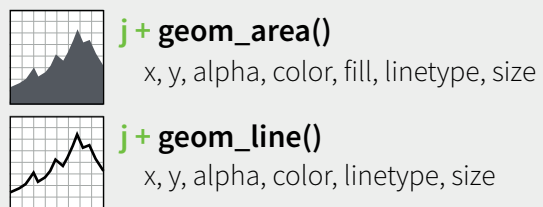
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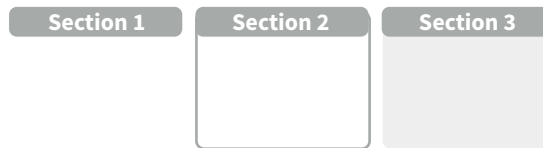   Append z to y as new rows.

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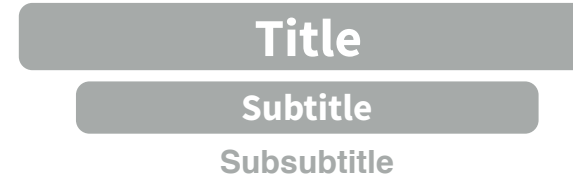Each cheatsheet should be licensed under the creative commons license.
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Color Scheme

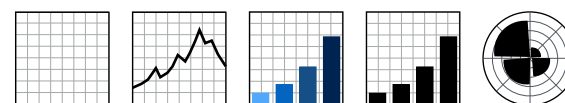Please use the following **color scheme** when designing new cheatsheets to be distributed through http://www.rstudio.com/resources/cheatsheets/

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Logistics

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