

Geospatial Data Carpentry Workshop: : CHEAT SHEET



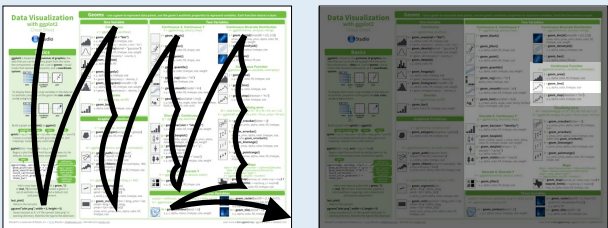
Intro to R

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.

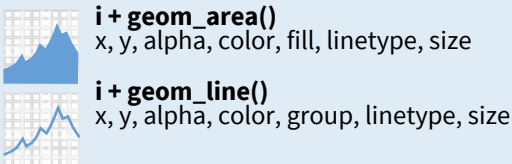
- 1. Use a **layout** that flows and makes it easy to zero in on specific topics.



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



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



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

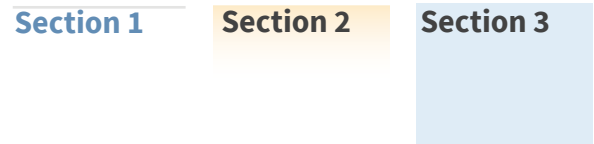
dplyr::lag() - Offset elements by 1
dplyr::lead() - Offset elements by -1

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Vector data

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



GIS

Fonts

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

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

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.
- To **group elements together**. Select them all , then click Arrange > Group
- To **evenly space multiple objects**, select them all then Right Click > Align objects or Right Click > Distribute objects
- Click on a table, then visit Format > Table > Row and Column Size to make **even width rows/columns**.

Raster Data

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

Title
SUBTITLE
SUBSUBTITLE

Quickly identify content with a **package hexsticker** (if available)

Fit sections to content. Try several different layouts.

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

Code

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

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

word balloons

can help explain code

Icons



These are just font awesome characters

Mock Tables



Mock Graphs



Tables

sub-option	description
citation_package	The LaTeX package to process citations, natbib, biblatex or none
code_folding	Let readers to toggle the display of R code, "none", "hide", or "show"
colortheme	Beamer color theme to use

YOUR LOGO
(optional)

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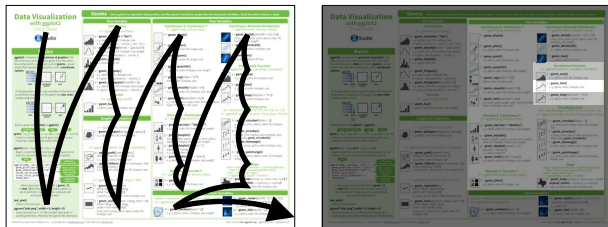
Basics

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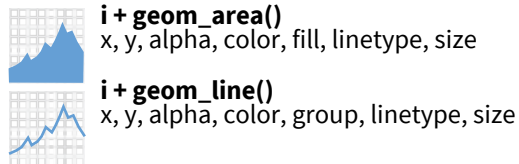
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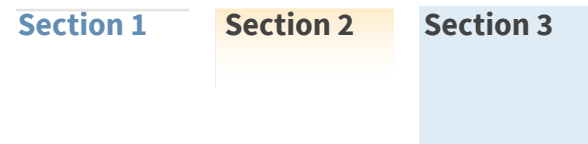


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Layout Suggestions

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Useful Elements

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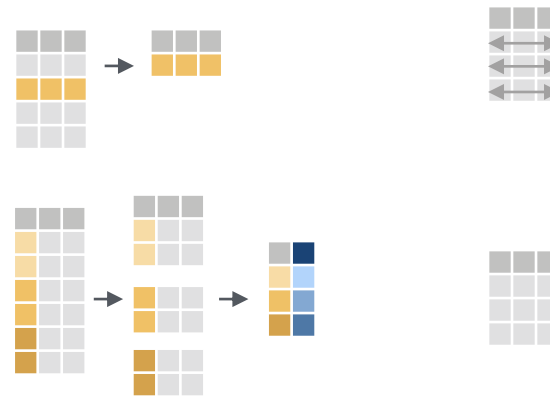
code

ICONS

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MOCK TABLES



MOCK GRAPHS



TABLES

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Logistics

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