

# CSSS 569 Visualizing Data and Models

## Lab 1: Intro to labs and R Markdown

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- ▶ This is my first time instructing a methods course.

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- ▶ I plan to complement and extend some of the lectures (I am open to input).

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- ▶ Use Slack channel.

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- ▶ Develop, eventually, your own workflow, critical thinking, and aesthetics.

## Labs schedule

Week	Topic
	<i>Setting the Stage</i>
1	Intro to R Markdown
2	Intro to L <sup>A</sup> T <sub>E</sub> X with Overleaf
	<i>Graphic Tools in R</i>
3	Intro to Base R Graphics and ggplot2
4	Advanced ggplot2 and Extensions
5	Intro to tile
	<i>Selected Topics (Open to Input)</i>
6	Visualizing Spatial Data
7	Visualizing Network Data
8	Interactive Visual Display with R Shiny
9	T.B.D.



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  - ▶  $\LaTeX$  is supported; more next week.

## R Markdown

- ▶ To compile an R Markdown document to PDF, you need to install  $\text{\LaTeX}$ 
  - ▶ If you haven't installed any previous  $\text{\LaTeX}$  distribution, I recommend TinyTeX
  - ▶ “TinyTeX is a lightweight, portable, cross-platform, and easy-to-maintain LaTeX distribution”

```
install.packages('tinytex')  
tinytex::install_tinytex()
```

- ▶ Let's demonstrate