STAT 288: R Markdown

### Equations

Mathematics notation is easy to incorporate into an R Markdown document. Equations, Greek letters, and symbols can be included "inline" in sections delimted by $ ... $ (e.g., The mean is $ \bar{x} = 3.2 $ $\rightarrow $ The mean is $\overline{x}=3.2$). Using sections delimited by two dollar signs ($ $ ... $ $) will place the mathematical notation in display-mode as a separate paragraph.

|  |  |
| --- | --- |
| Raw markdown | Knitted |
| x^y | $$x^{y}$$ |
| x\_y | $$x\_{y}$$ |
| \alpha, \mu, \sigma | $$α,μ,σ$$ |
| \beta, \beta\_0, \beta\_1 | $$β,β\_{0},β\_{1}$$ |
| \bar{x} | $$\overline{x}$$ |
| \hat{x} | $$^$$ |
| \sqrt{x} | $$\sqrt{x}$$ |
| \sum | $$∑$$ |
| \frac{x}{y} | $$\frac{x}{y}$$ |

#### Displaying Blocks of Code Without Knitting/Evaluating

In some situations, you want to display text and R code without evaluating the R code. This is done by placing the code inside two sets of ``` (You can see this in the .Rmd file).

This text is displayed verbatim / preformatted and $\sqrt{x}$ is not knitted.

#### Inline Equations

This equation $\bar{X} = \frac{1}{n} \sum X\_i$ appears inline.

This equation $\overline{X}=\frac{1}{n}∑X\_{i}$ appears inline.

Note: in the .Rmd file you will see one code block within a set of ``` (**not** knitted/evaluated) and one code block without the ``` (knitted/evaluated)

#### Display-mode Equations

This equation $$\bar{y} = \frac{1}{n} \sum y\_i$$ appears in display mode (indented on its own line)

This equation

$$\overline{y}=\frac{1}{n}∑y\_{i}$$

appears in display mode (indented on its own line)