Xaringan Cross-Reference

Equations Label & Cross-Reference

Single Equation

- Unlabeled equation

$$\int_a^b f(x)dx = \frac{F(x)}{\frac{\binom{n}{n}}{\binom{k}{k}}}\Bigg|_a^b = F(b) - F(a)$$

- NOTE: `xaringan` renders (n n)/ (k k) denominator too small (considerably smaller than `ioslides` for example). Is there a way to correct that?

- Labeled equation

$$\operatorname{cov}(\epsilon_s, \epsilon_t) = \begin{cases} \sigma^2 & \text{if } s = t \\ 0 & \text{else} \end{cases}$$

- NOTE: `xaringan` does not render equation $(???)$ above correctly and also the equation number is not displayed.

A Single Equation that works

- Labeled Equation

$$y = \frac{(x - \mu)}{(max - min)} \tag{1}$$

- See equation (1) above.

Block of Equations

NOTE: these sometimes render correctly and label/cross-reference works and sometimes they don't, I have no idea why.

- Labeled system of equations

$$\left(\sum_{i=1}^{n} i\right)^2 = \left(\frac{n(n-1)}{2}\right)^2 = \frac{n^2(n-1)^2}{4} \quad \frac{\partial f}{\partial x}(x=3) \qquad = y^2 \; y = \frac{(x-\mu)}{(max-min)}$$

- See system of equations $(???)$ above.
- See system of equations $???$ above.

Tables Caption & Cross-Reference

kable() Table

`Bookdown` default table caption only works with `kable()`

See table ???

```
knitr::kable(iris[1:5, ], caption = 'A caption', longtable=TRUE)
```

Table: A caption

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa

Latex Tables

- This works in LaTeX and ideally should work in `xaringan` too

See table ??? below.

```
\begin{table}[htbp!]
\centering
\caption{\label{tab:my-tab1} Caption}
\begin{tabular}{ccccc} 1 & 2 & 3 & 4 & 5 \ 6 & 7 & 8 & 9 & 10 \
\end{tabular}
\end{table}
```

Figures Caption & Cross-Reference

Image

- This works in LaTeX and ideally should work in `xaringan` too

See Figure ??? below:

```
\begin{figure}[h!] \includegraphics[scale=0.5]{www/myfigure1.png}
\caption{Figure Title}\label{fig:image1}
\end{figure}
```