# Lecture 8: Rmarkdown - a tool for reporting results from R

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# Packages required in this lecture

install.packages(c("rmarkdown", "forecast"))

# Why R markdown?

- Much easier syntax syntax than LaTex or Html
- Dynamic: easy to update and work with the R codes
- Multiple output formats
- Makes presentation easy
- Keep me organized of weekly research progress reports

## Header 1

#### Header 2

## Creation of lists

#### unordered

- Item 1
- Item 2

#### ordered

- 1. Item 1
- 2. Item 2
  - item 2a
  - item 2b

### Inline codes

Write inline R code using backtick quotes: forecast()

# Blockqotes

It's always better to give than to receive.

## **Equations**

- x + y = z for inline equations
- \_

$$x + y = z$$

# Hyperlink

R markdown tutorial

# R code chunks with plot

See Hyndman and Athanasopoulos (2014).

## R code chunks with table

knitr::kable(head(iris))

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1 4.9 4.7 4.6 5.0 5.4	3.5 3.0 3.2 3.1 3.6 3.9	1.4 1.4 1.3 1.5 1.4	0.2 0.2 0.2 0.2 0.2 0.2	setosa setosa setosa setosa setosa

## Plain code block

library(forecast)
plot(stlf(AirPassengers, lambda=0))

## References

Hyndman, Rob J, and George Athanasopoulos. 2014. Forecasting: Principles and Practice. OTexts.