

# Class Wrap-Up

Class may be ending, but the journey has just begun.



How to draw an owl

1.



1. Draw some circles

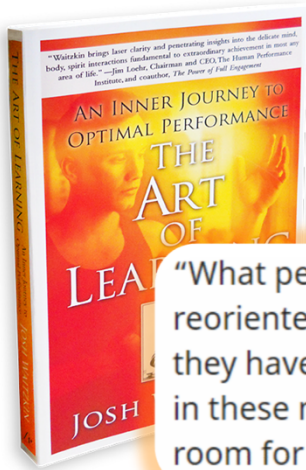
2.



2. Draw the rest of the owl



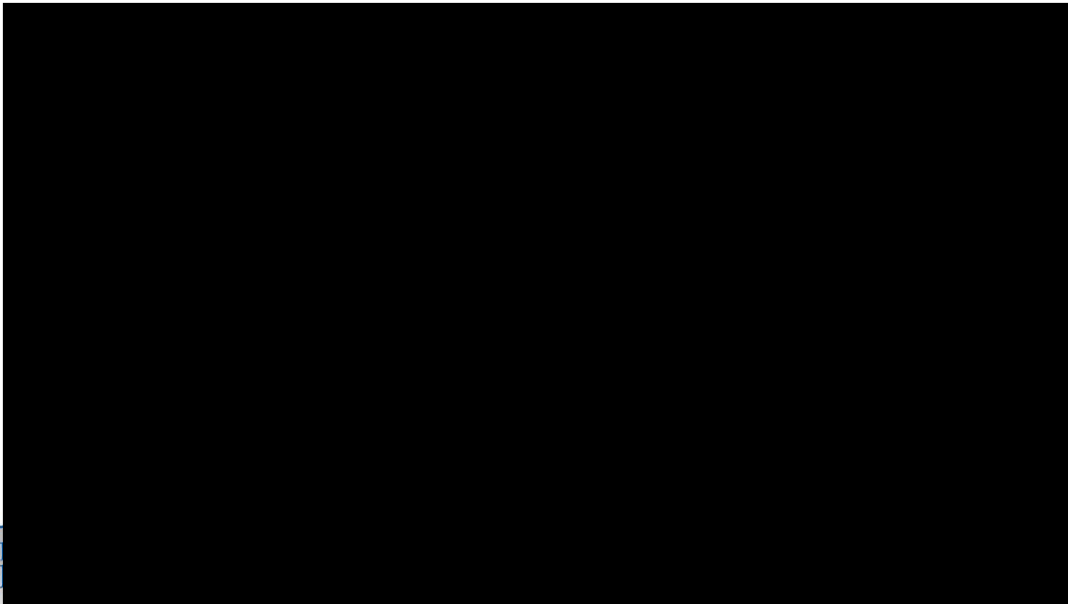
## Productive Struggle



*Productive struggle* is a state of mind where obvious solutions and simple answers to a problem seem elusive, yet despite this, one maintains faith that flexible thinking and perseverance will yield positive outcomes.

"What people don't realize is that world-class performers have reoriented their relationship to suffering, to the point of resistance, they have learned to embrace it, they've learned to see the beauty in these moments where there's pain because there's incredible room for growth." - Josh Waitzkin ([Tim Ferris Show Ep.2](#))

## Productive Struggle



# Imposter Syndrome


 Dianne Cook liked  
**Rob J Hyndman** @robjhyndman · 21 Nov 2018  
 Replying to @Rhydwynd  
 My students don't believe that I still battle **imposter syndrome**. Looking forward to seeing you tomorrow!

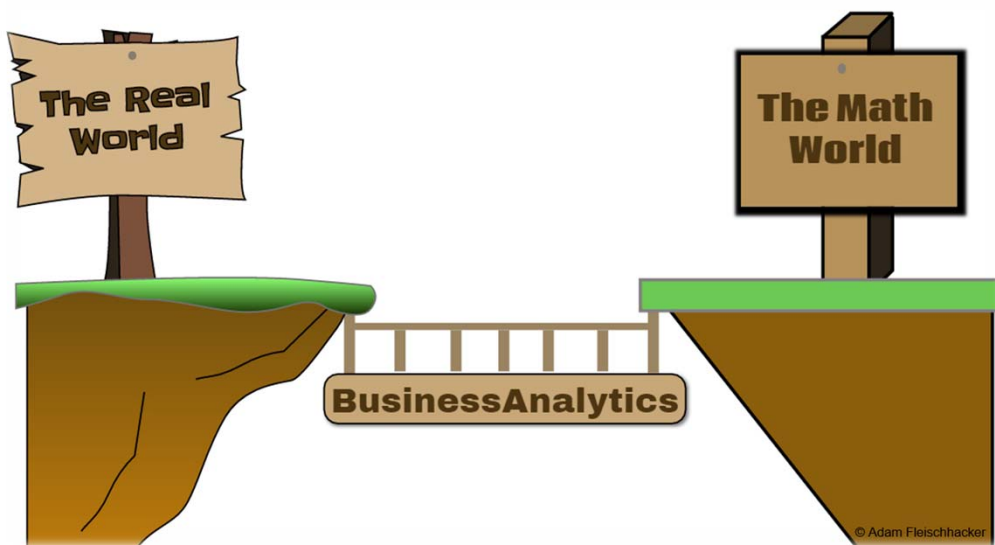

**Reid Hoffman** @reidhoffman · Jul 3  
 When Oscar-winner @GwynethPaltrow took on the challenging new role of start-up founder @goop, she experienced "**imposter syndrome**." Then, after accepting that she didn't "have to know everything," she focused on team-building - and fast growth followed.  
[applepodcasts.com/mastersofscale](http://applepodcasts.com/mastersofscale)


 Wendy Smith liked  
**Lerner College** @UDLernerCollege · 11 Oct 2018  
 #LernerWomen's Leadership Initiative leader @profwendysmith closes our first panel with a discussion of **imposter syndrome**: Research shows that it affects both men and women, but women handle it differently.

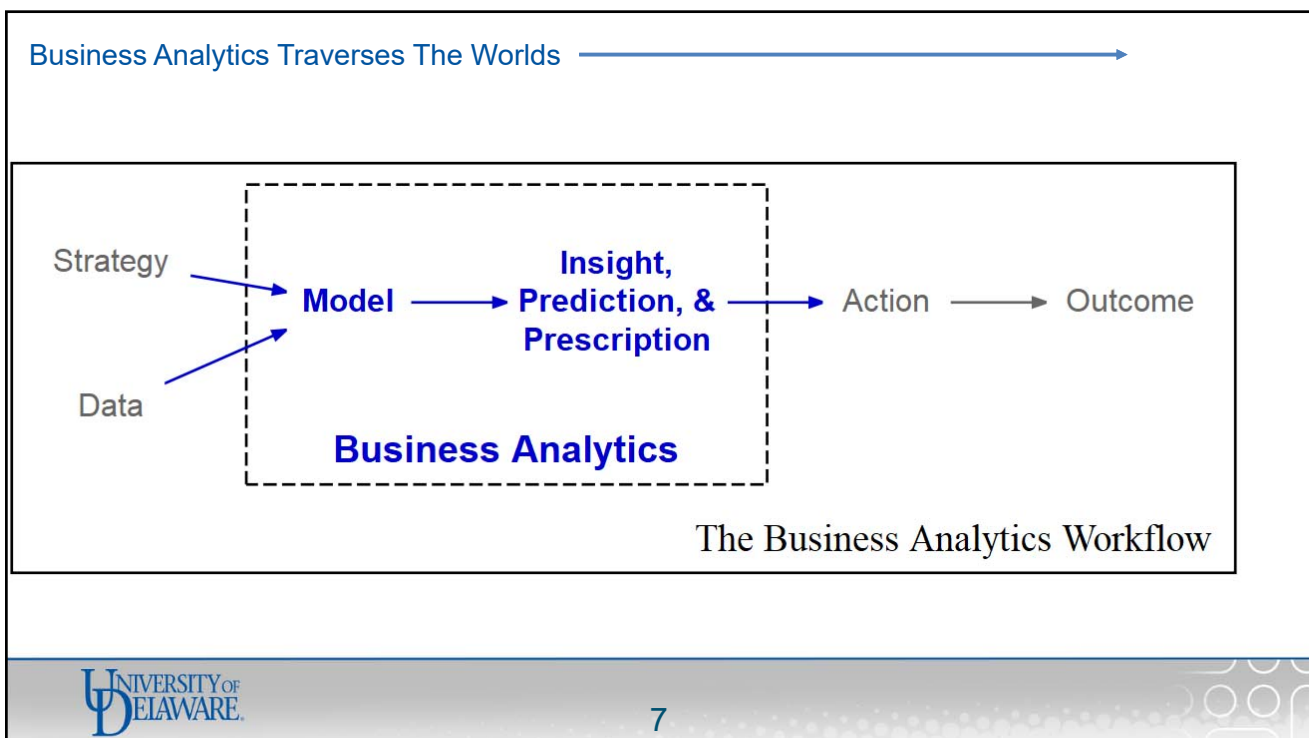
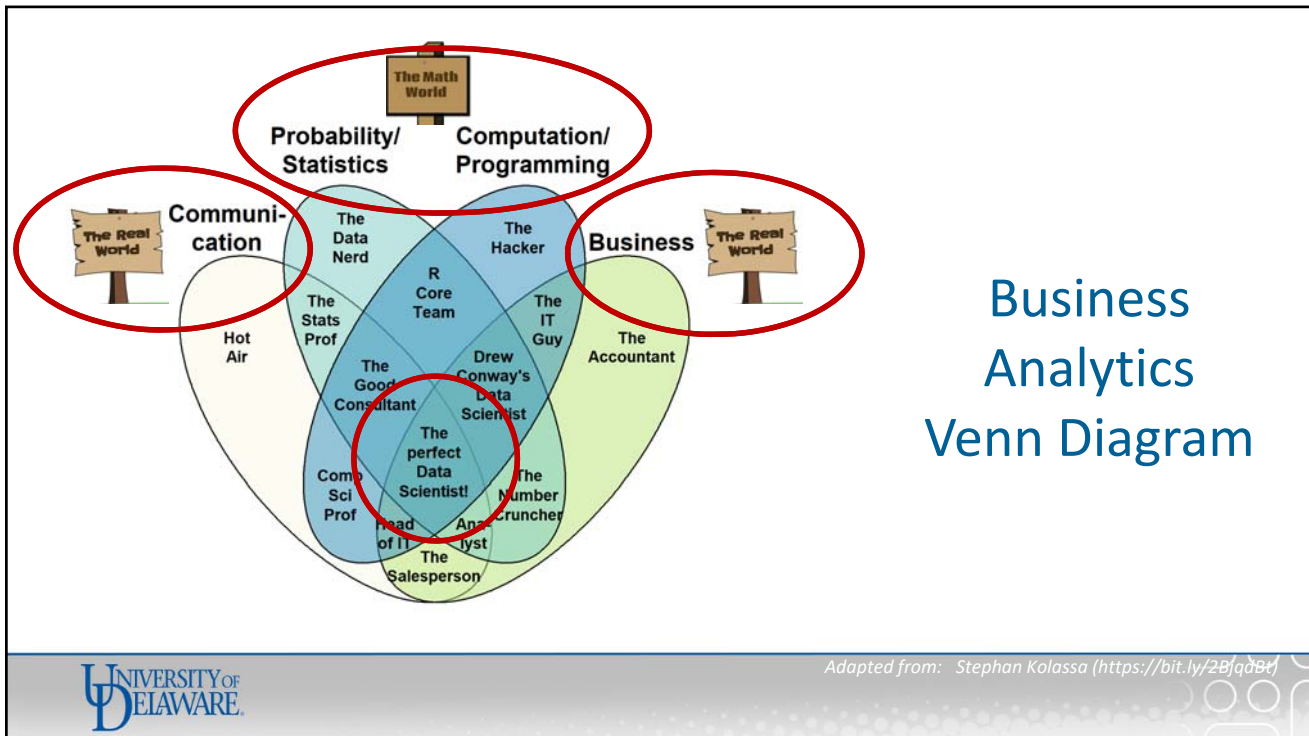

**Bruce W. Weber** @BruceWWeber  
 Panel wrap-up by Prof Wendy Smith @UDLernerCollege


 EVERYDAY MONEY > CELEBRITY  
**Gwyneth Paltrow's Goop Is Valued at \$250 Million. Here Are All the Ways She Makes Money From the Cult Lifestyle Brand**

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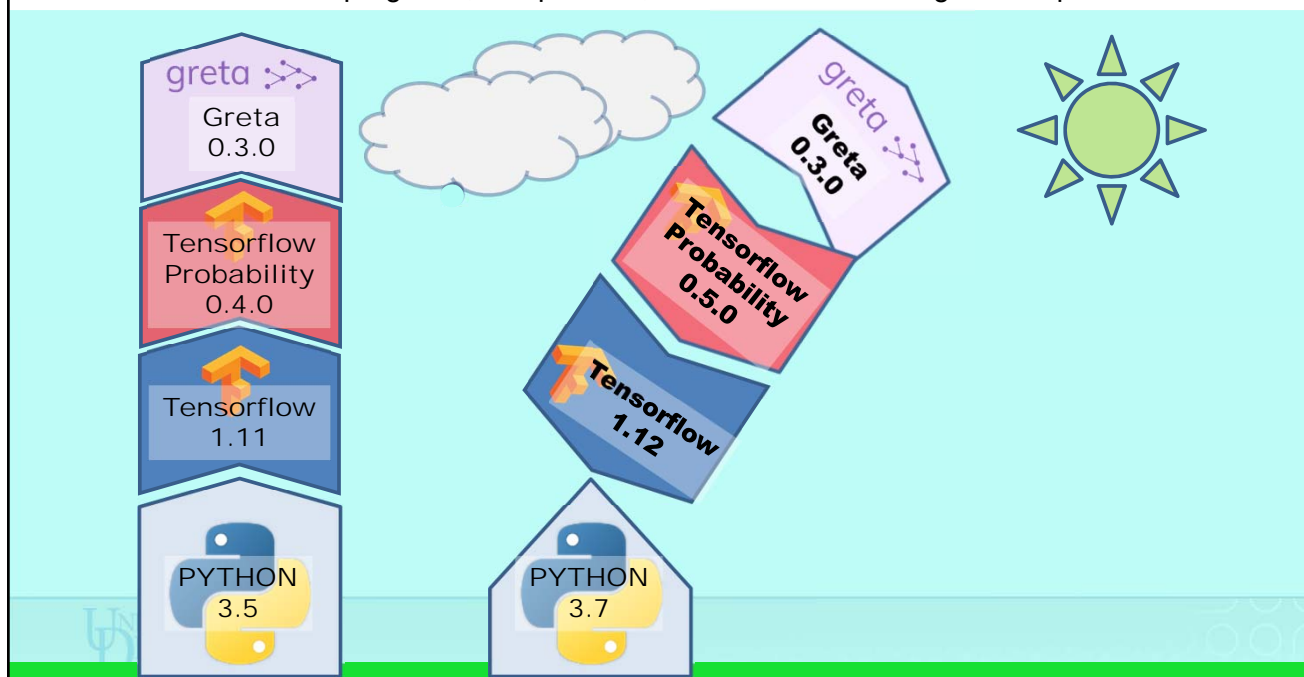
## This Philosophy Will Guide You Well



1. Beliefs that are consistent with the data become more plausible
2. Beliefs that are inconsistent with the data are less plausible



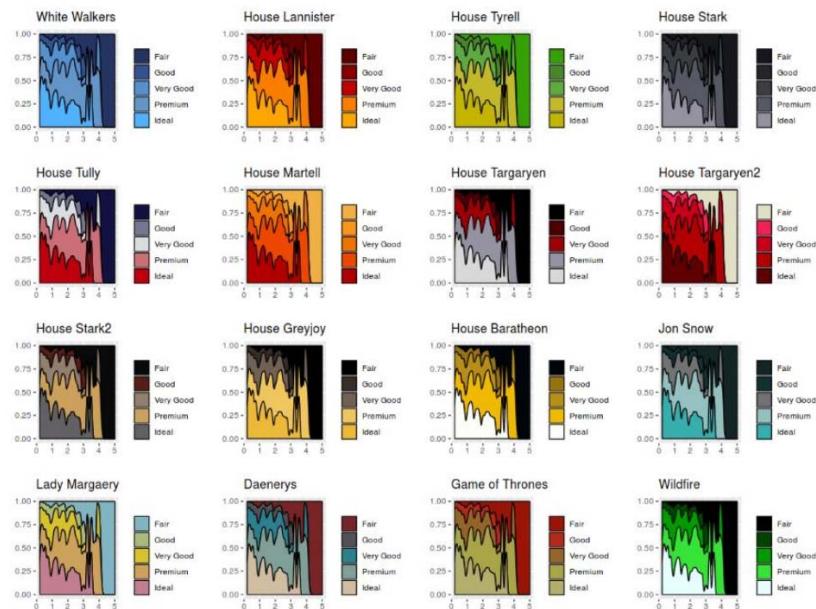
Software Stack: A set of programs, components, and tools that work together to produce a result.



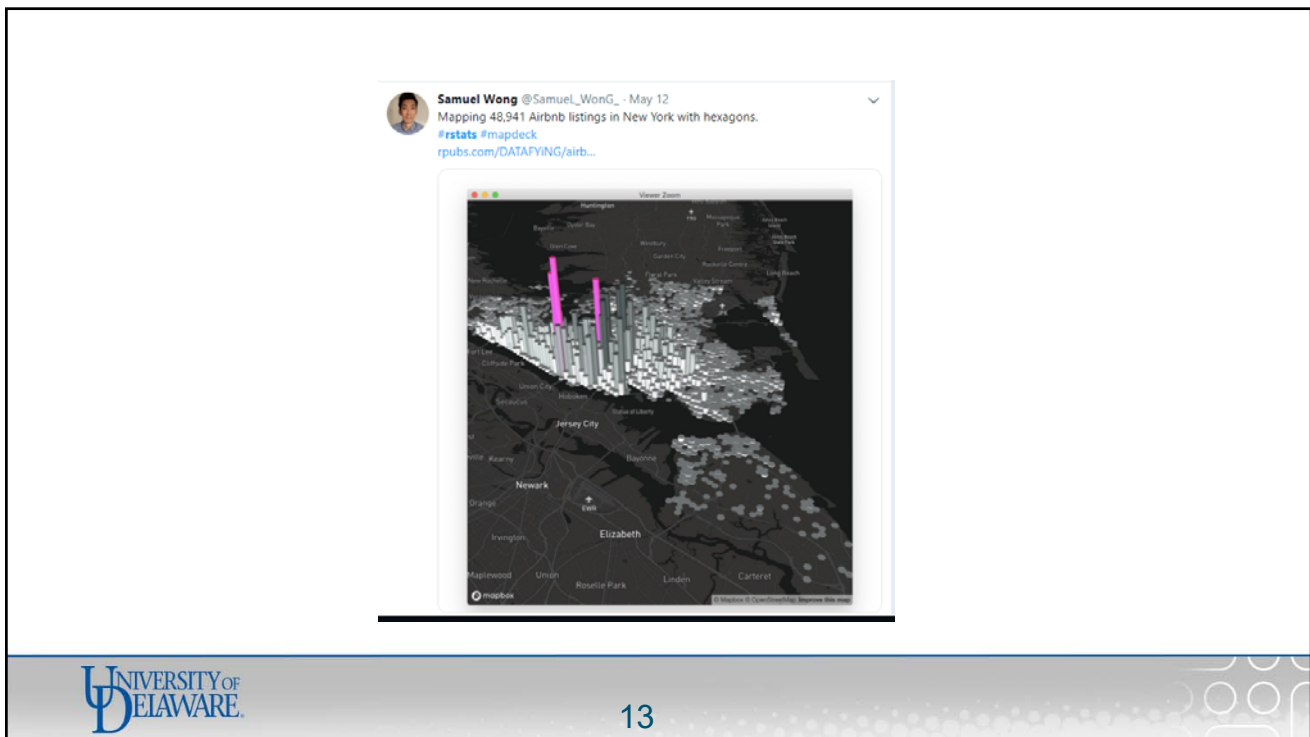
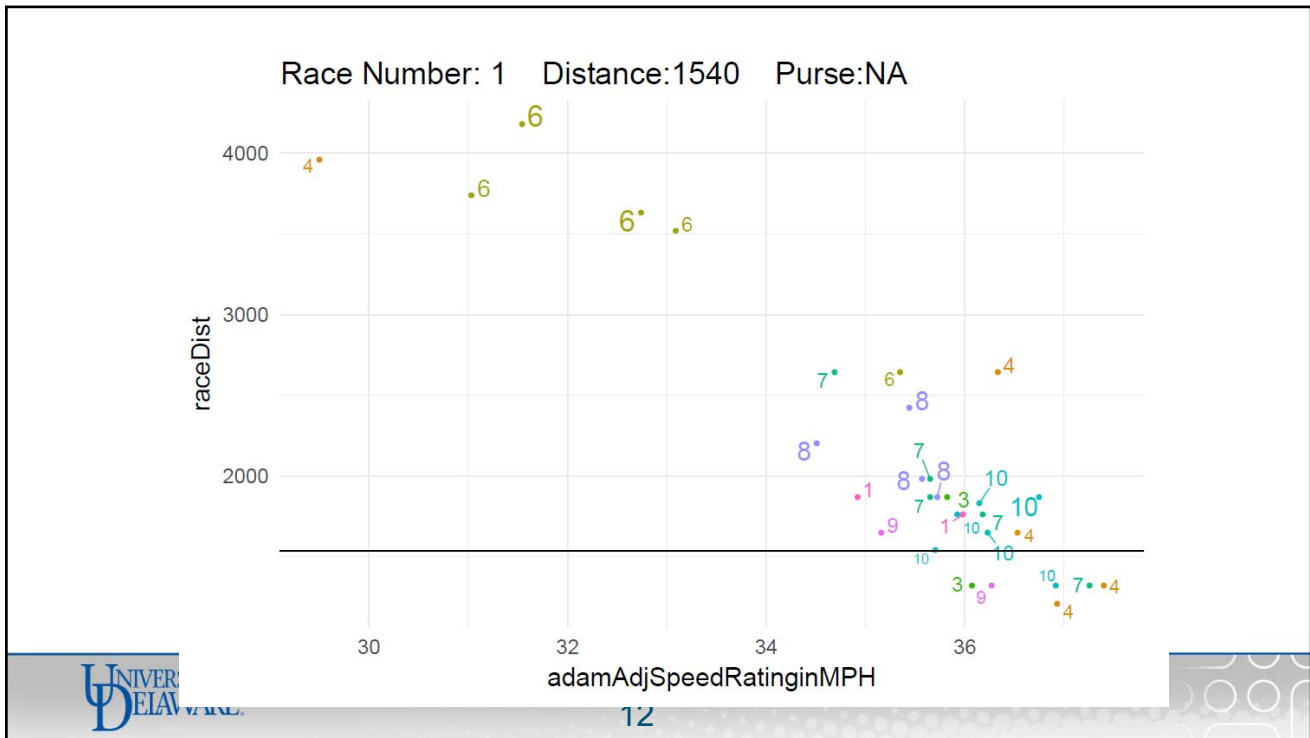
HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE?  
(ACROSS FIVE YEARS)

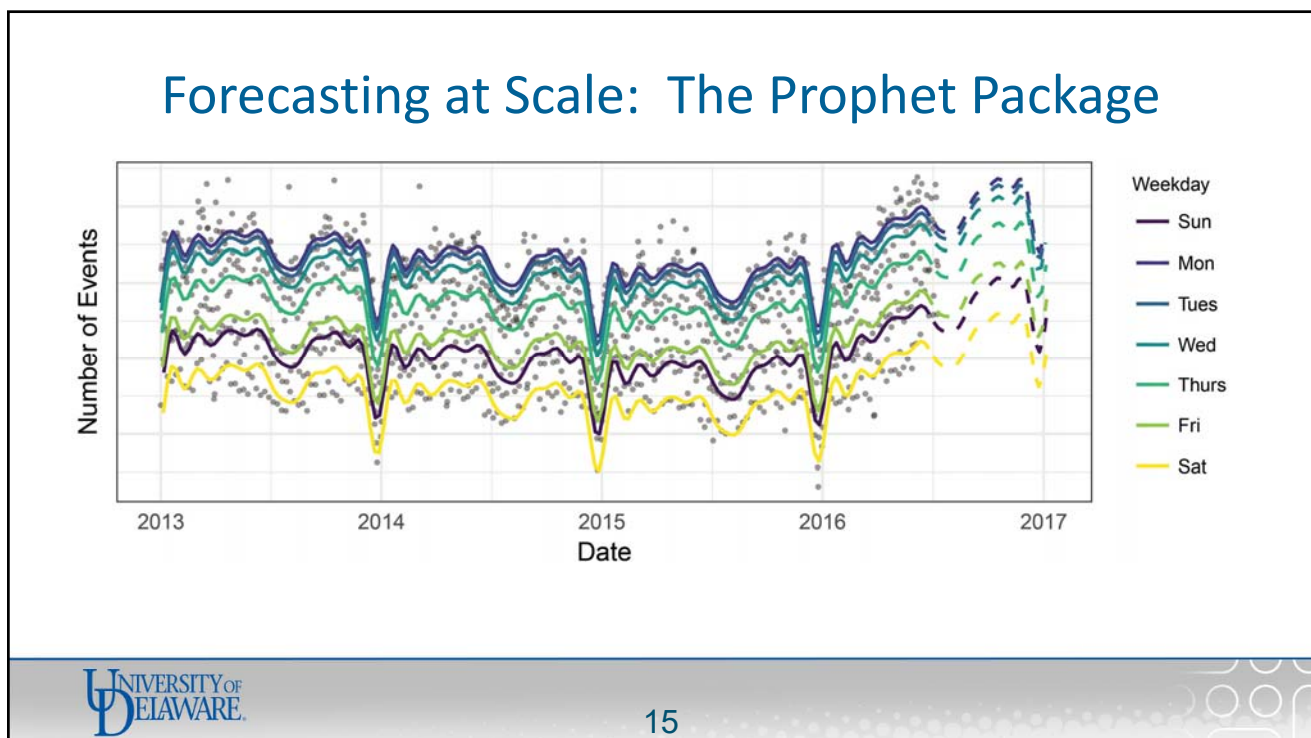
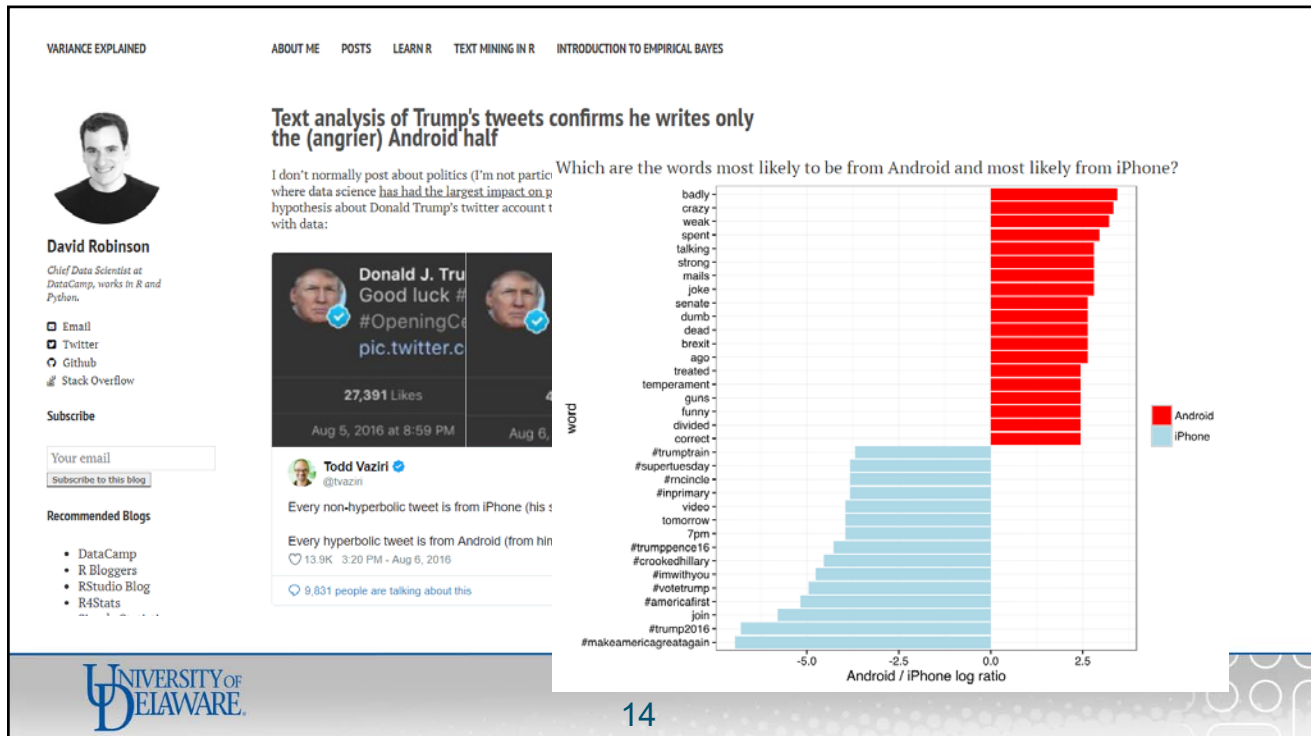
	HOW OFTEN YOU DO THE TASK					
	50/DAY	5/DAY	DAILY	WEEKLY	MONTHLY	YEARLY
1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	5 SECONDS
5 SECONDS	5 DAYS	12 HOURS	2 HOURS	21 MINUTES	5 MINUTES	25 SECONDS
30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
30 MINUTES		6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 HOURS
1 HOUR		10 MONTHS	2 MONTHS	10 DAYS	2 DAYS	5 HOURS
6 HOURS				2 MONTHS	2 WEEKS	1 DAY
1 DAY					8 WEEKS	5 DAYS

library(gameofthrones)











## Fancy Buzzwords You Know Something About

TensorFlow

Theme  
Coordinates  
Statistics  
Facets  
Geometries  
Aesthetics  
Data

**Grammar Of Graphics**

**PROBABILISTIC PROGRAMMING PRIMER**

**R Studio**

Doing Bayesian Data Analysis  
A Tutorial with R, JAGS, and Stan

$p(\theta|D) = p(D|\theta) \cdot p(\theta) / p(D)$

A directed acyclic graph is one that is directed, but does not contain ANY cycles. These are also called **DAGs** for short.

**DAGs EVERYWHERE!**

**PROBABILISTIC GRAPHICAL MODELS**  
PRINCIPLES AND TECHNIQUES

**An Introduction to Generalized Linear Models**

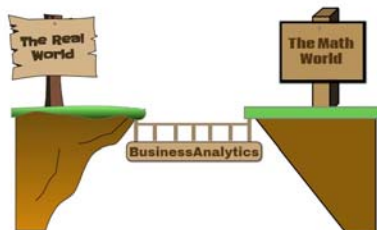
**Applied Bayesian Hierarchical Methods**

**Bayesian Data Analysis**  
Third Edition

**R Packages**

**IDE**

### The Business Analyst's Guide to Business Analytics



Intro to Business Analytics In The R-Ecosystem

Featuring R, RStudio, the Tidyverse, Graphical Models, Bayesian Inference, and Greta.

<http://causact.updog.co/>

Adam Fleischhacker

Read Book?

Career Success

Observed Outcomes

Success Probability

Read Book?



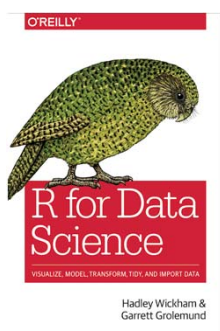
**Adam Fleischhacker**

@preposterior

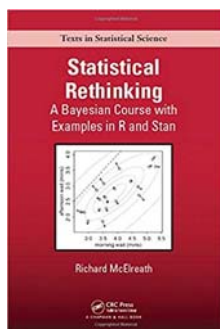
People and data compelling action -  
Modelling and visualizing Bayesian priors  
and posteriors. (tweets by Adam  
Fleischhacker - Univ. of Delaware)

## Potential Next Steps In Your Journey

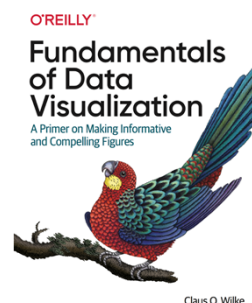
### Computing



### Modelling



### Persuasive Visualization



<https://r4ds.had.co.nz/> <https://youtu.be/4WVeICswXo4> <https://serialmentor.com/dataviz/>



1

## Thanks for a great class

- Keep me posted on your journey ... let me know if I can help 😊

*Thank you*