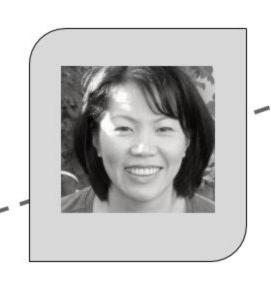
# Predict YouTube Video Views

*Annie Flippo* 10/15/2016



# Who am I?



#### Annie Flippo

Sr. Data Scientist

AwesomenessTV / Dreamworks Animation SKG

Machine Learning Engineer

Product Manager

Coder

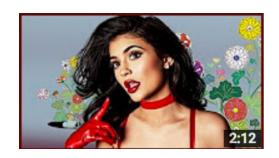


# Who is AwesomenessTV?

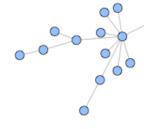
We're digital content provider for platforms such as Hulu, Netflix, Roku, Verizon & YouTube.







# **Business Problem**



Can we predict how many views a new video will get on day 30?



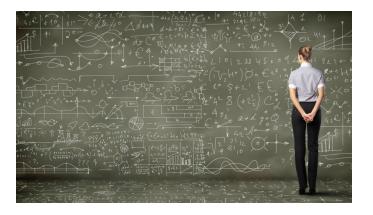
#### Purpose:

- Know if and when to promote a video
- Better manage marketing budget

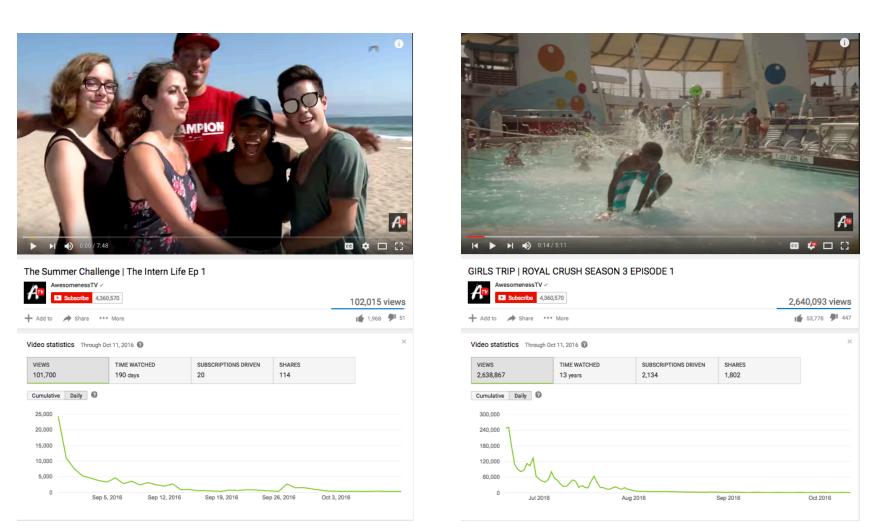
### Where to Start

# Is this a unique problem?

- Review research & literature
- Find others who might have insights



## Views Exhibit the Same Pattern



But the scale of views are different!

#### **Understand the Data**

Collect daily views for existing videos.

- What's wrong with day 0?
- YouTube has missing data
- YouTube data is often more than 2 days behind

# **Exploratory Analysis**

- Graphing raw data
- Feature Engineering (i.e. log it)
- Check out R-Markdown output

# How good are the Predictions?

#### Test the model with new videos:

- Collect day 0, 1 & 3 data
- Predict day 30 views
- Write it down
- Wait a month and check actual views



# Slides are available at bit.ly/acflippo-yt-video-pred

#### Thank You!



