

# Semester projects

Complex Networks | @networksvox  
CSYS/MATH 303, Spring, 2018

The Real Plan  
References

Prof. Peter Dodds | @peterdodds

Dept. of Mathematics & Statistics | Vermont Complex Systems Center  
Vermont Advanced Computing Core | University of Vermont



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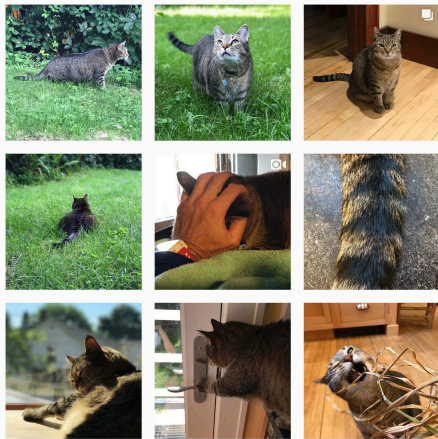
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 On Instagram at [pratchett\\_the\\_cat](https://www.instagram.com/pratchett_the_cat) 



# Outline

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# The Critical Periphery in the Growth of Social Protests

<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.014>

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# Usual plan for semester projects

## Requirements:

1. 2 minute introduction to project ( $n$ th week).
2. 4 minute final presentation.
3. Report:  $\geq 4$  pages (single space), journal-style
4. And/Or: Online visualization.
5. Use Github for code and data visualizations.
6. Hopefully: Teams of 2 or 3.










## Goals range from:

-  Understand, critique, and communicate published work.
-  Seed research papers or help papers along.








# The narrative hierarchy—Stories and Storytelling on all Scales: ↗



-  1 to 3 word encapsulation = a soundbite = a buzzframe,
-  1 sentence, title,
-  few sentences, a haiku,
-  a paragraph, abstract,
-  short paper, essay,
-  long paper,
-  chapter,
-  book,
-  ...










## General plan—All projects will be about stories:

-  Works of literature.
-  Fairy tales, proverbs, sayings, memes.
-  Metaphors: Taxonomy and abundance.
-  Frames and micro-narratives in social and traditional media.
-  What is the story of stories?: Story Taxonomy.





## For story explorers:

-  Plots from Wikipedia:  
<https://github.com/markriedl/WikiPlots>
-  So many possibilities 
-  Millions of books on the VACC:  
Hathitrust  data set
-  IMDB  (see the real plan)



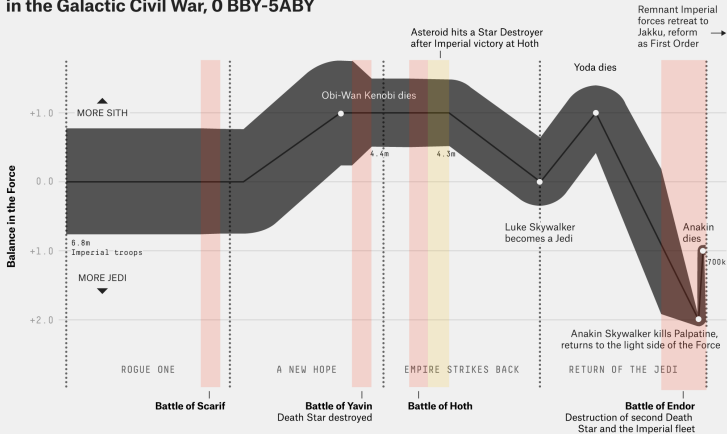
## Develop and analyze a large-scale, multi-partite temporal network:

- 📦 [Movies/TV series \(Psych\)](#)
- 📦 [Actors \(Nick Offerman\)](#) [\(Mira Sorvino\)](#)
- 📦 [Directors \(Spielberg\)](#)
- 📦 [Writers \(Whedon\)](#)
- 📦 [Ratings: Rotten Tomatoes](#), [Metacritic](#) (no)
- 📦 [Box Office](#)
- 📦 [Genres](#), [TV Tropes](#)
- 📦 [Data sources: Wikipedia, IMDB](#), [fandom/wikia](#)
- 📦 Overall evolution, critical and moviegoer reviews, success, creativity, #metoo



# Star Wars, In One Chart ↗

## Figurative map of Imperial Navy troop losses in the Galactic Civil War, 0 BBY-5ABY



FiveThirtyEight

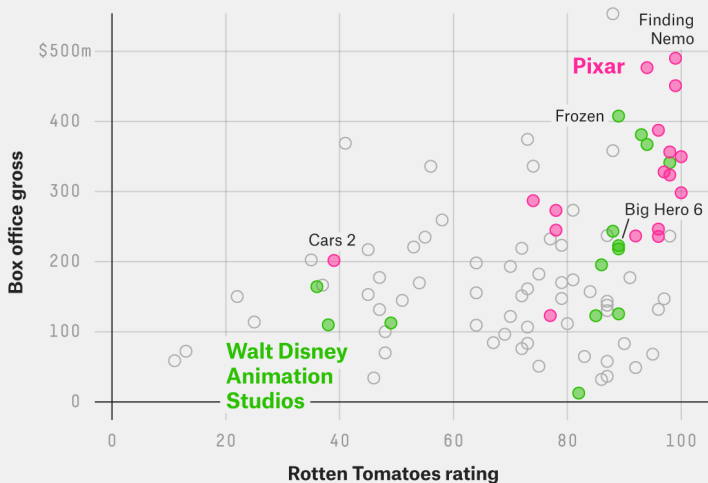
SOURCE: LUCASFILM, WODKIEPEDIA, STAR WARS FILMS

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# The mouse seems to have this thing down

Domestic box office gross in 2016 dollars vs. Rotten Tomatoes ratings for animated films, since 1991



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SOURCES: THE NUMBERS, ROTTEN TOMATOES

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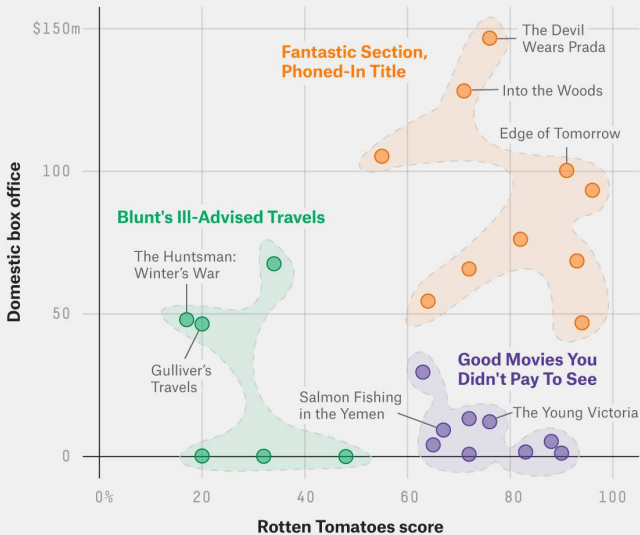
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# Emily Blunt takes good gambles

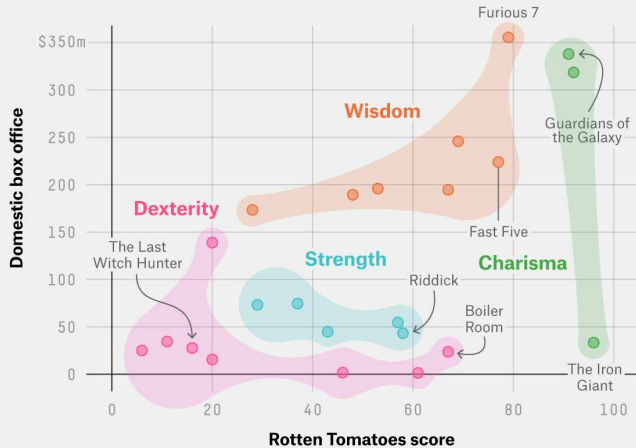
Domestic box office in 2015 dollars vs. Rotten Tomatoes score





# Vin Diesel's (cinematic) character sheet

Domestic box office in 2016 dollars vs. Rotten Tomatoes score

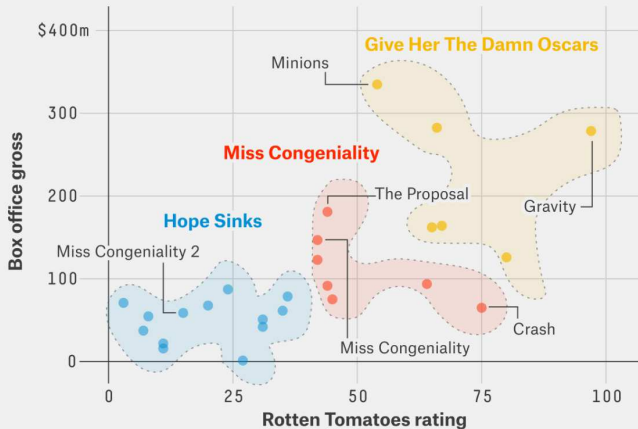


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SOURCES: THE NUMBERS, ROTTEN TOMATOES

# Sandra Bullock Is Good In Lots Of Bad Movies

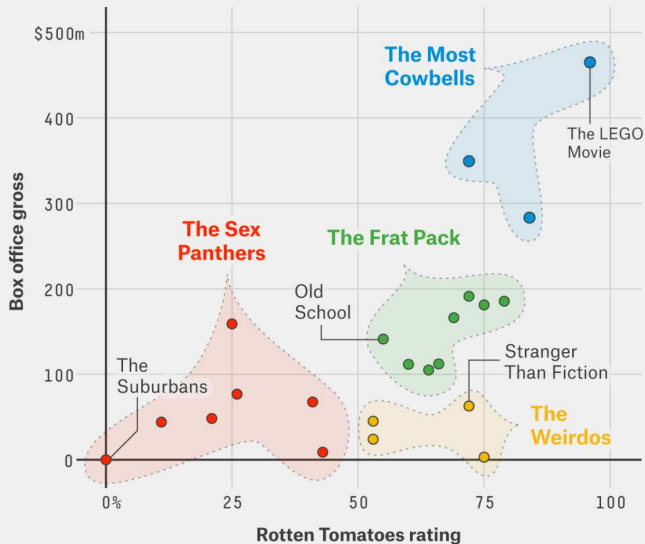
Inflation-adjusted domestic box office vs. Rotten Tomatoes score





# The Four Types Of Will Ferrell Movies

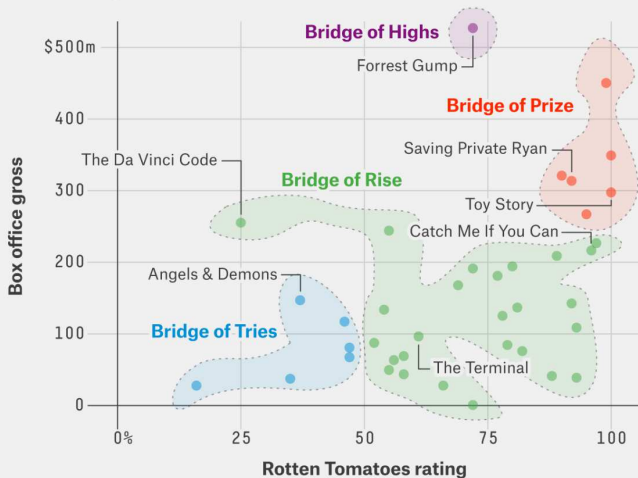
Box office gross in 2014 dollars vs. Rotten Tomatoes rating





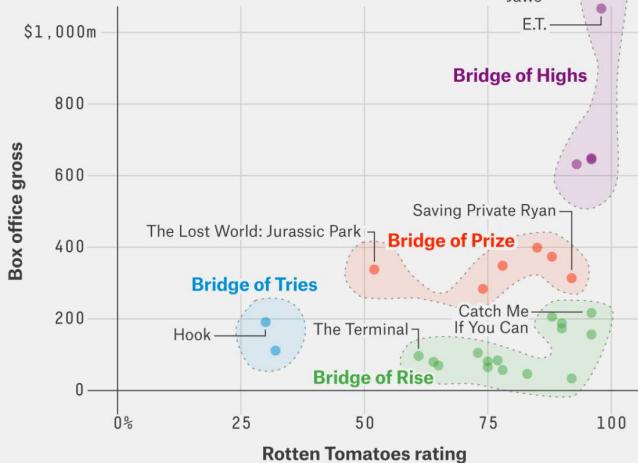
# Tom Hanks Is A Box Of Really Good Chocolates

Inflation-adjusted domestic haul vs. Rotten Tomatoes score



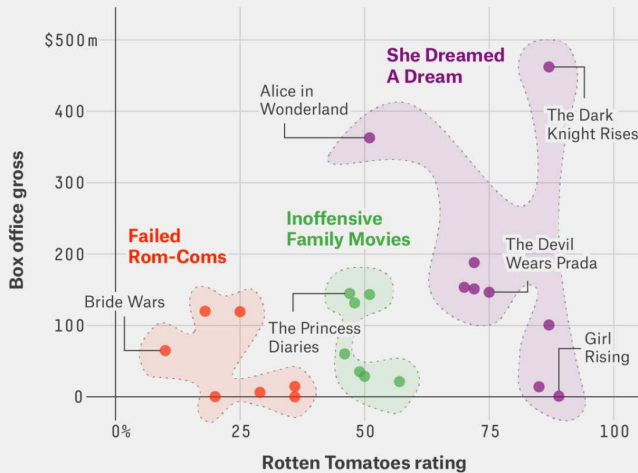
# Steven Spielberg Breaks The Chart

Inflation-adjusted domestic haul vs. Rotten Tomatoes score



## The Three Types Of Anne Hathaway Movies

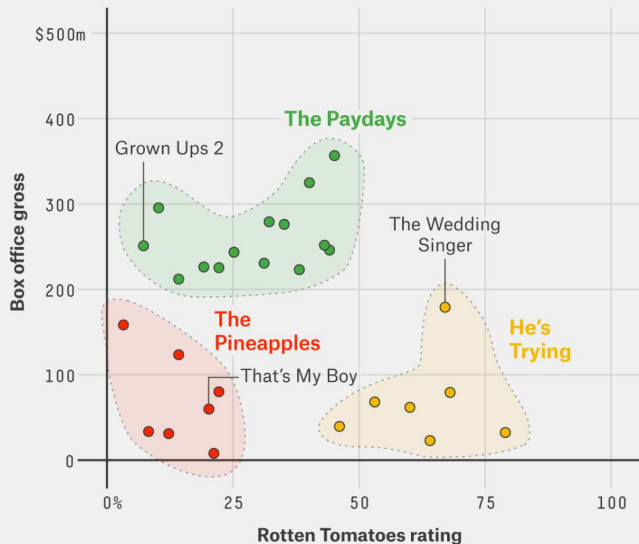
Inflation adjusted domestic box office vs. Rotten Tomatoes score





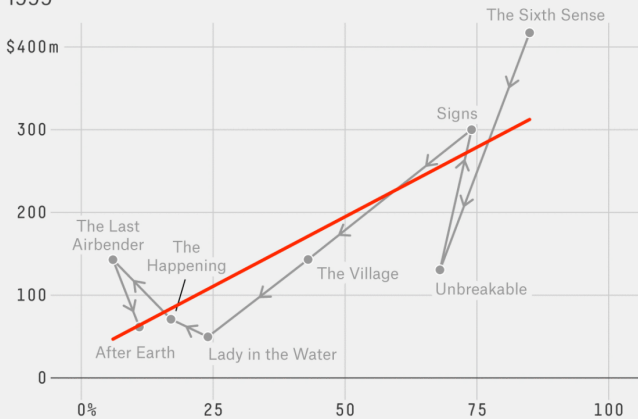
# The Three Types Of Adam Sandler Movies

Box office gross in 2014 dollars vs. Rotten Tomatoes rating



## The M. Night Shyamalan Twist

Box office revenue vs. Rotten Tomatoes score for films directed since 1999



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SOURCE: IMDB, OPUSDATA, ROTTEN TOMATOES



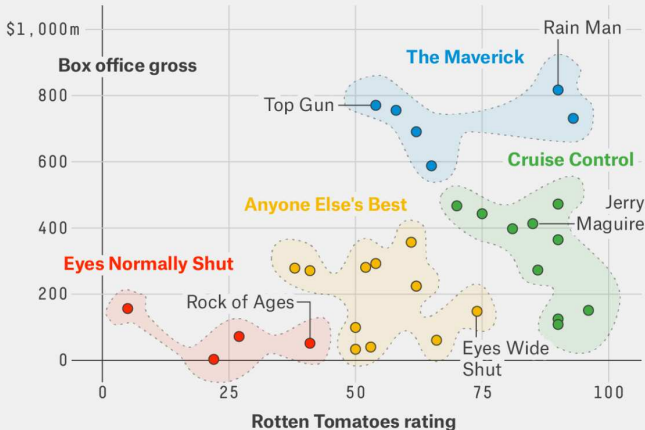
<https://fivethirtyeight.com/tag/hollywood-taxonomy/>





# Tom Cruise Is Impossible

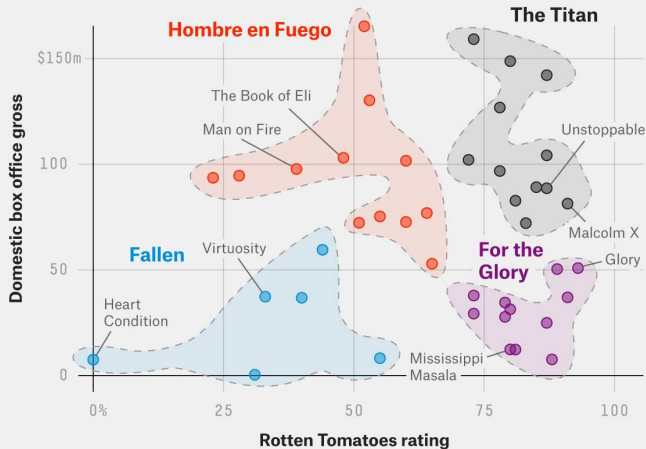
Box office gross in 2014 dollars vs. Rotten Tomatoes rating





# Denzel Washington is unstoppable

Domestic box office in 2015 dollars vs. Rotten Tomatoes rating



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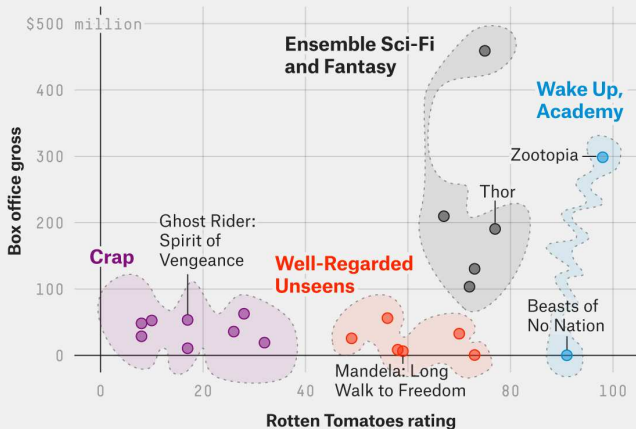
SOURCE: THE NUMBERS, ROTTEN TOMATOES





# Please put Idris Elba in more movies

Inflation-adjusted domestic box office vs. Rotten Tomatoes score



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SOURCE: OPUSDATA, ROTTEN TOMATOES

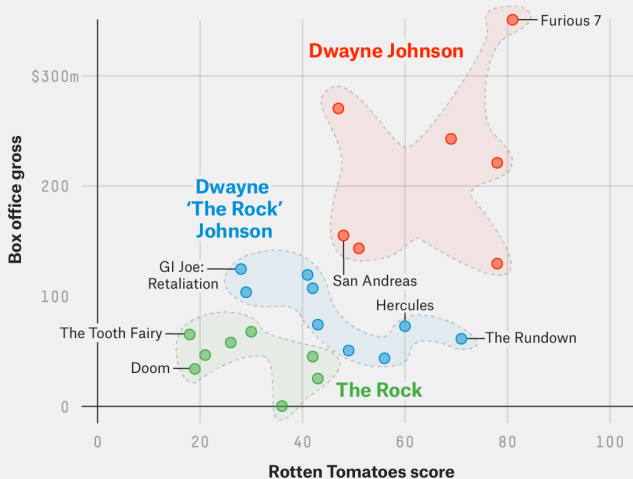






# The three types of Dwayne Johnson movies

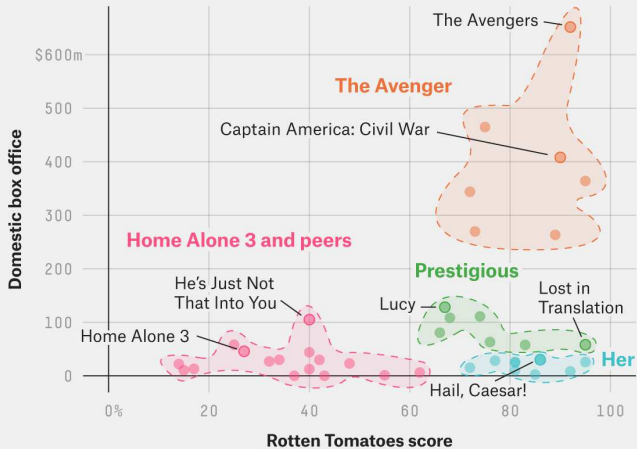
Domestic box office in 2015 dollars vs. Rotten Tomatoes score





# The four types of Scarlett Johansson movies

Domestic box office in 2016 dollars vs. Rotten Tomatoes score



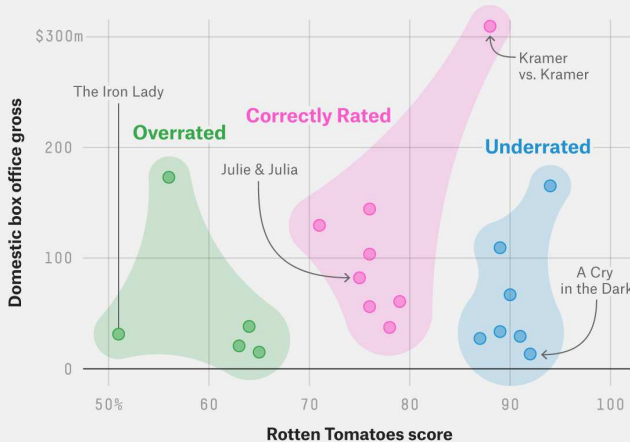
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SOURCES: THE NUMBERS, ROTTEN TOMATOES



## When is Meryl Streep overrated?

Domestic box office in 2016 dollars vs. Rotten Tomatoes rating for Streep's Oscar-nominated performances



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SOURCES: ROTTEN TOMATOES, THE NUMBERS

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