

Semester projects

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

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Vermont Advanced Computing Core | University of Vermont



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1 of 27

Outline

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4 of 27

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2 of 27

The Critical Periphery in the Growth of Social Protests
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0143611>

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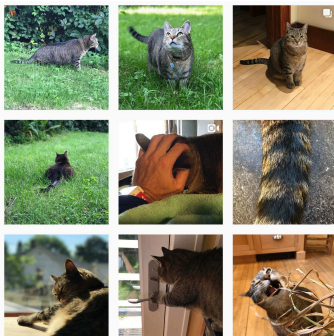
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3 of 27

Usual plan for semester projects

Requirements:

1. 2 minute introduction to project (m th week).
2. 4 minute final presentation.
3. Report: ≥ 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.

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5 of 27

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,
- ...

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6 of 27

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8 of 27

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

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9 of 27

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10 of 27

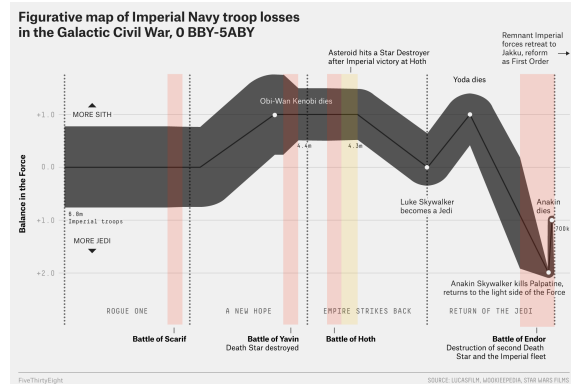
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11 of 27

Star Wars, In One Chart [↗](#)



The mouse seems to have this thing down

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



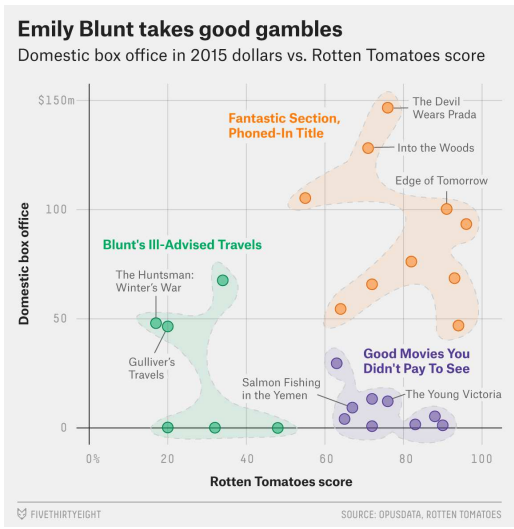
Animation's growth [↗](#)

8 of 27

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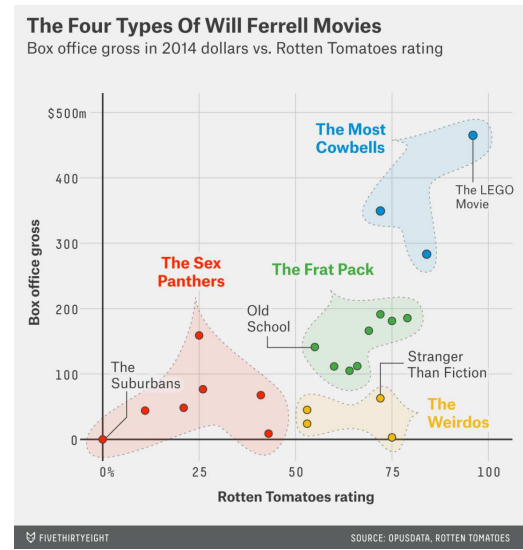
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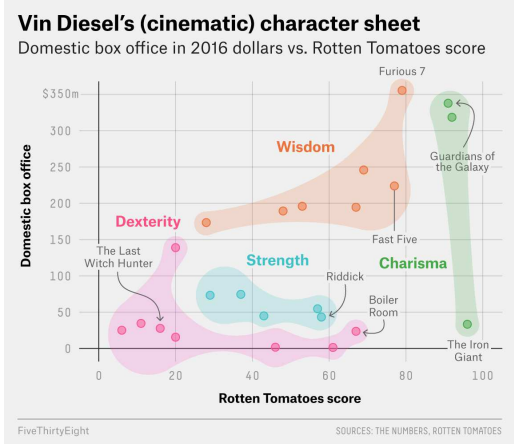
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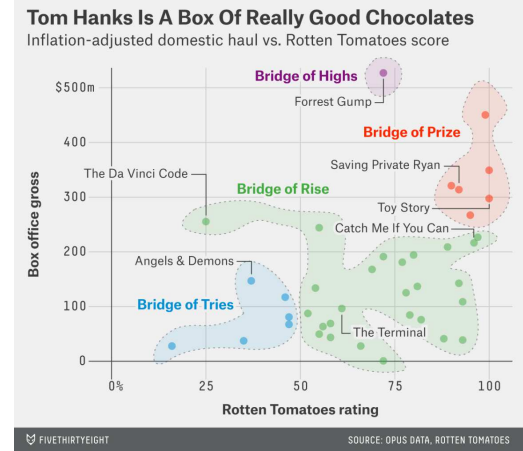
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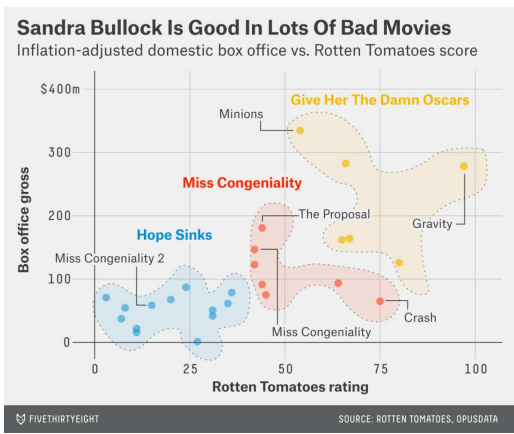
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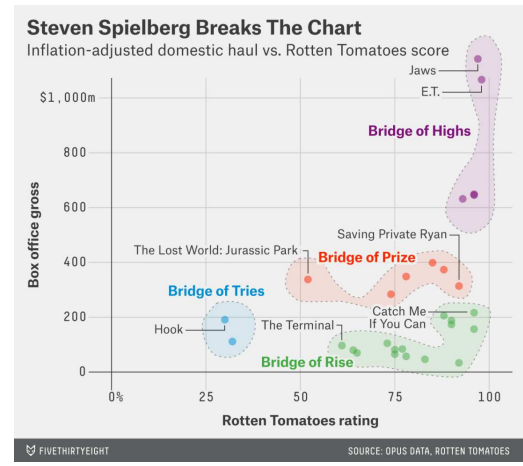
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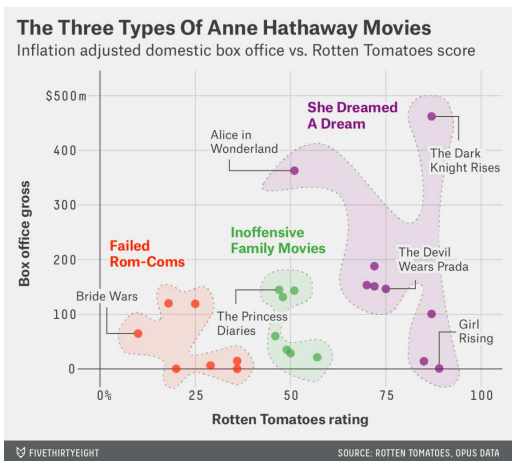
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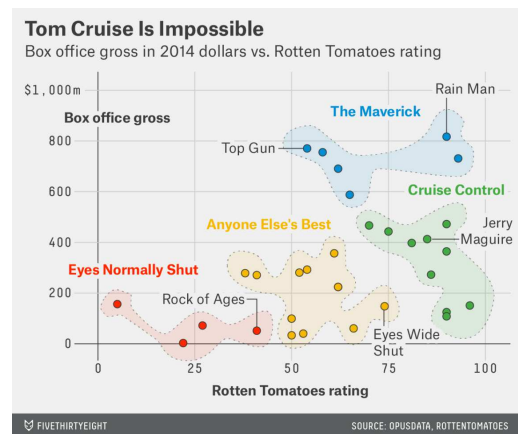
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18 of 27

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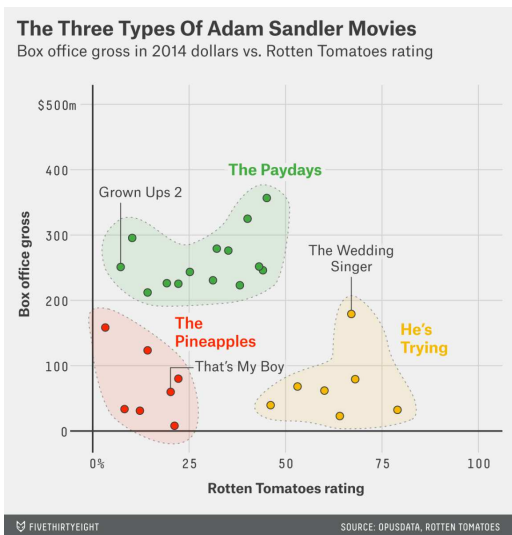
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21 of 27

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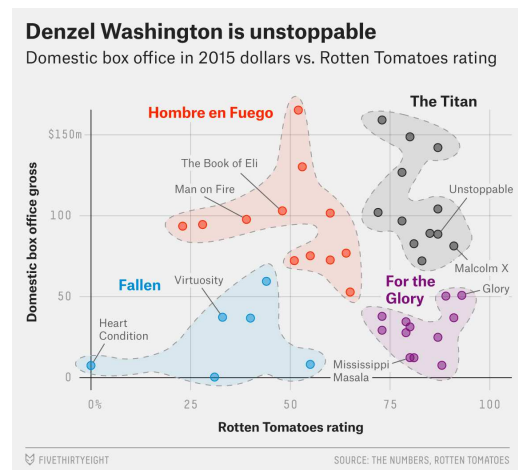
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19 of 27

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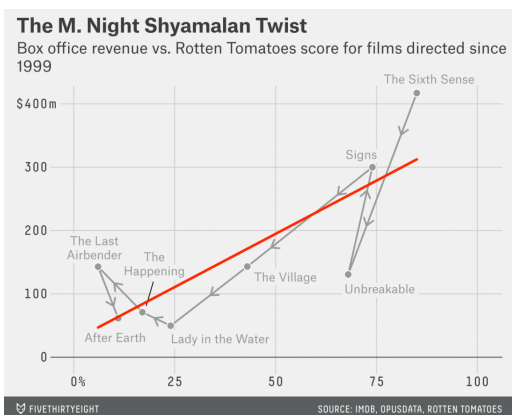
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22 of 27

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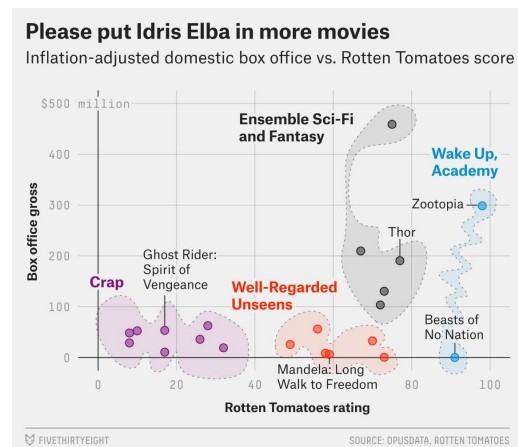
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20 of 27

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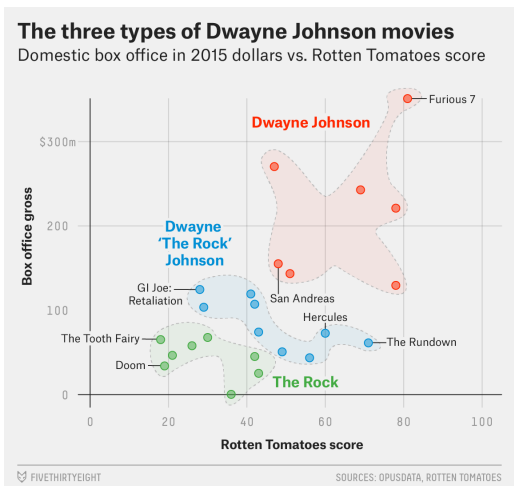
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23 of 27

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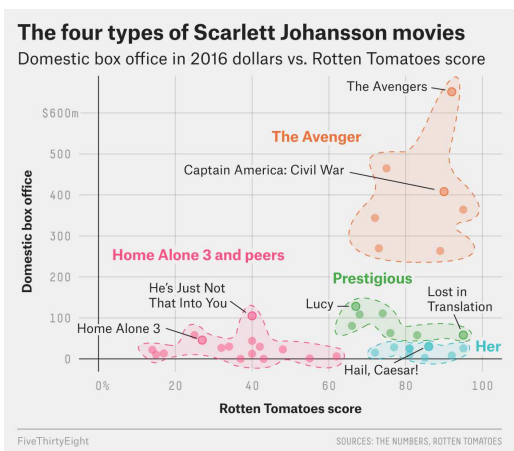
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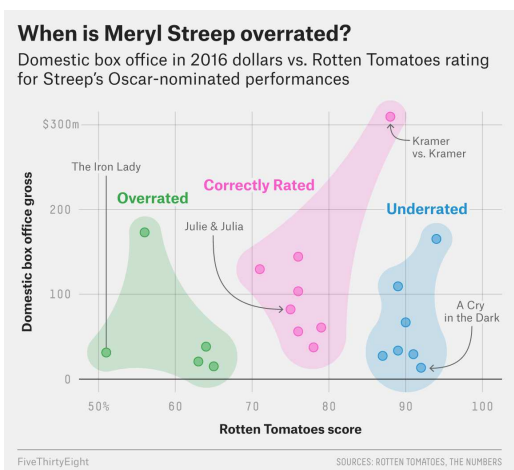
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