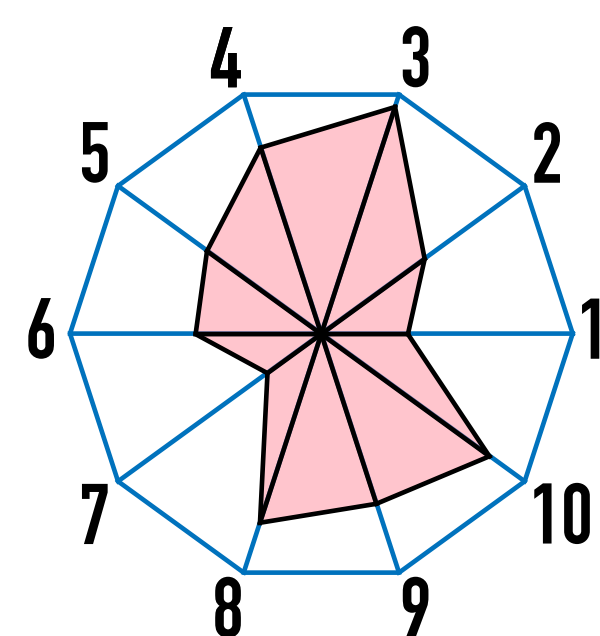
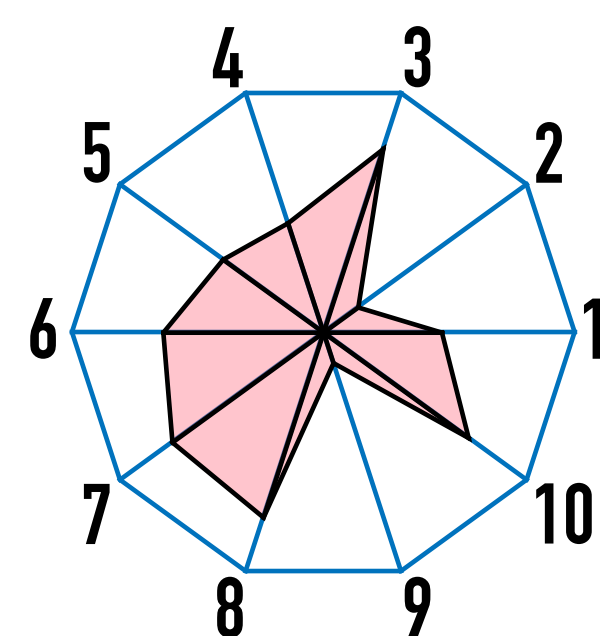


# ROUND UP THE (UN)USUAL SUSPECTS!

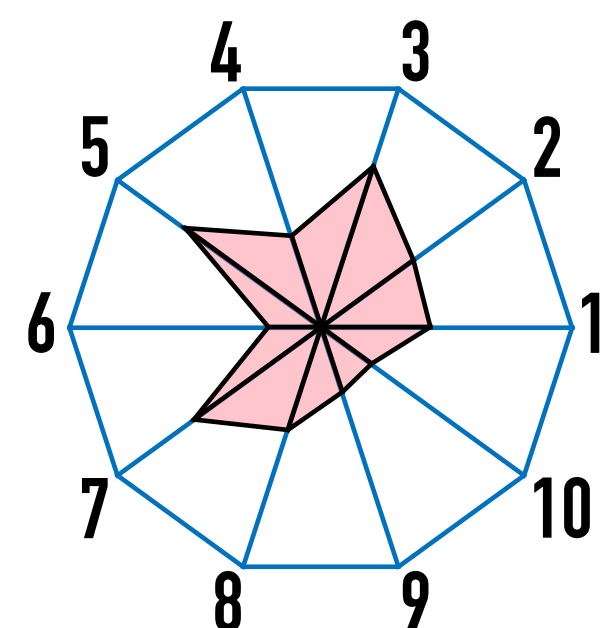
The Empire Strikes Back



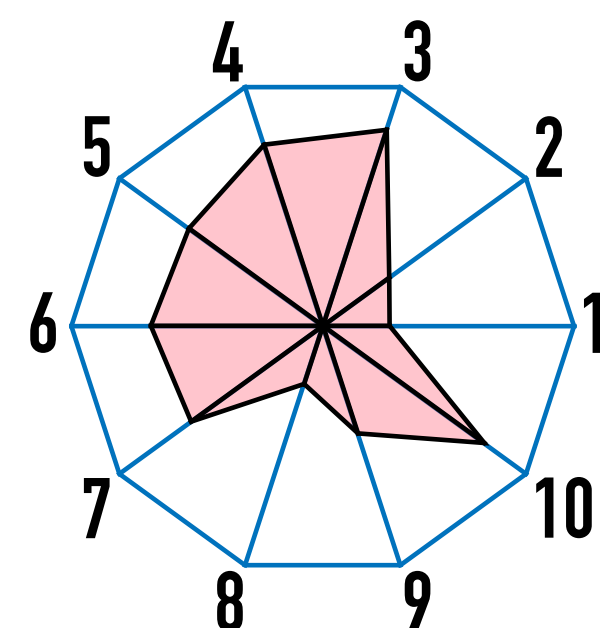
Casablanca



A Funny Thing Happened  
on the Way to the Forum



The Good, the Bad,  
and the Ugly



1. For the Sentimentalist in You
2. Low Budget Camp of Horror
3. Epic Action Adventure!
4. Complicated, Dark and Thrilling
5. Lots of Laughs at Society's Expense
6. Prepare to be Disturbed
7. Foreign Cinema Snobs Only
8. Relationships and the Unknown World
9. Provocative Alternative Dystopias
10. Grounded in Reality

**CHRIS CURRO EE '15, DAVID KATZ EE '15 AND HARRISON ZHAO EE '16, ADVISOR: SAM KEENE**

We created a movie recommendation system that allows users to pick what they're interested in based on ten features, and how important it is that we pick movies similar to each of those features. The specific features were learned by a statistical model called an autoencoder which found meaningful relationships between a set of one thousand tags on each movie to create a set of ten descriptors. Some of the feature ratings produced by our autoencoder can be seen above.

In our interactive demo, a user can load a given movie's set of features by typing its name into the search bar at the top of the page and then clicking "Load Features." The user can then adjust feature values and relevancies to fit their particular tastes. The user then clicks "Recommend Movies" and enjoys our suggestions!

Source Code: [github.com/katzdave/MovieRecommendation](https://github.com/katzdave/MovieRecommendation)

More Info: [ee.cooper.edu/~curro/movieRec.pdf](http://ee.cooper.edu/~curro/movieRec.pdf)

Note: An interactive demo will be available for the duration of the public exhibition.