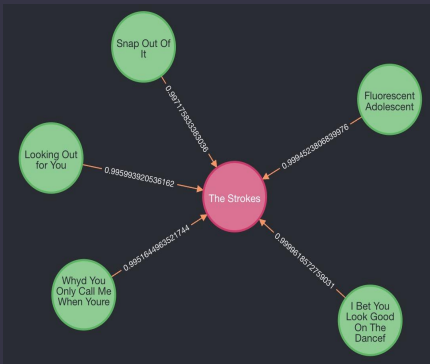




# Avril Mauro & Katelyn Donn

3184 nodes & 1,642,148 edges

Our recommender system is inspired by **Content-Based Filtering** algorithms of tech leaders like Netflix who pride themselves on personalizing their recommendations for each user based on the content they interact with on the platform.



Arctic Monkeys	Whatever People Say I Am, That's What I'm Not	<i>I Bet You Look Good On The Dancefloor</i>
Arctic Monkeys	Favourite Worst Nightmare	<i>Fluorescent Adolescent</i>
Arctic Monkeys	AM	<i>Snap Out Of It</i>
Joy Again	Looking Out For You	<i>Looking Out For You</i>
Arctic Monkeys	AM	<i>Whyd You Only Call Me When Youre High</i>

We decided to take the **pairwise cosine similarity** of all numerical features in our sample, which, after preprocessing included **valence**, **tempo**, **popularity**, and **genre** encoded. We then assembled the songs and scores in a dataframe containing all unique pairs of songs in the sample. Finally, we used cypher queries to (1) output all pairs that included the input song ("Last Nite" by The Strokes), (2) sort the songs in descending order by similarity score, and (3) limit the results to 5 songs.