Choosing Data and my question

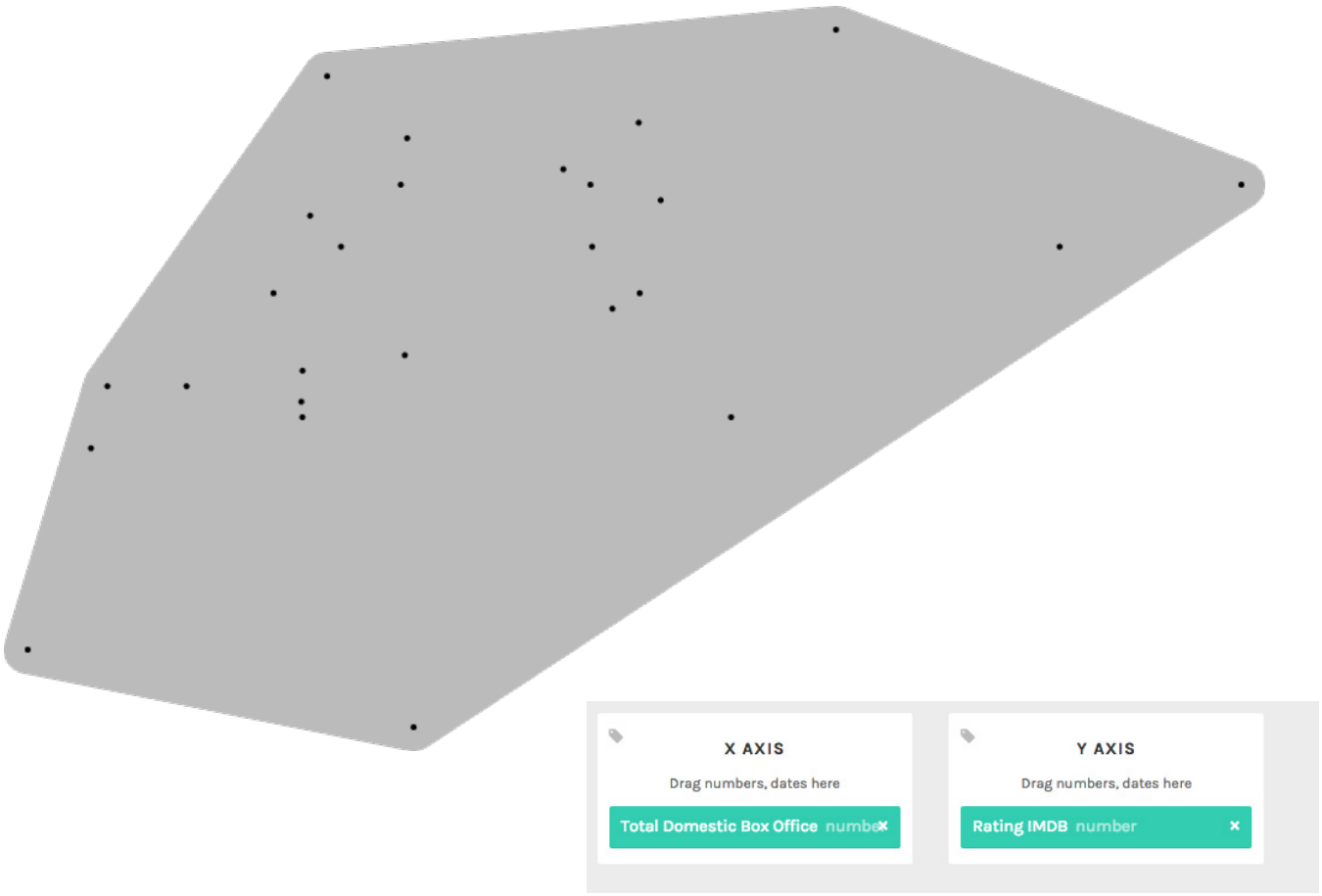
The data set I used was one built into the Raw Density program. I chose the data having to do with movies. The question I wanted to solve, after looking at the data, was if the IMDB rating has any correlation to the money made at the box office.

Raw Data Set

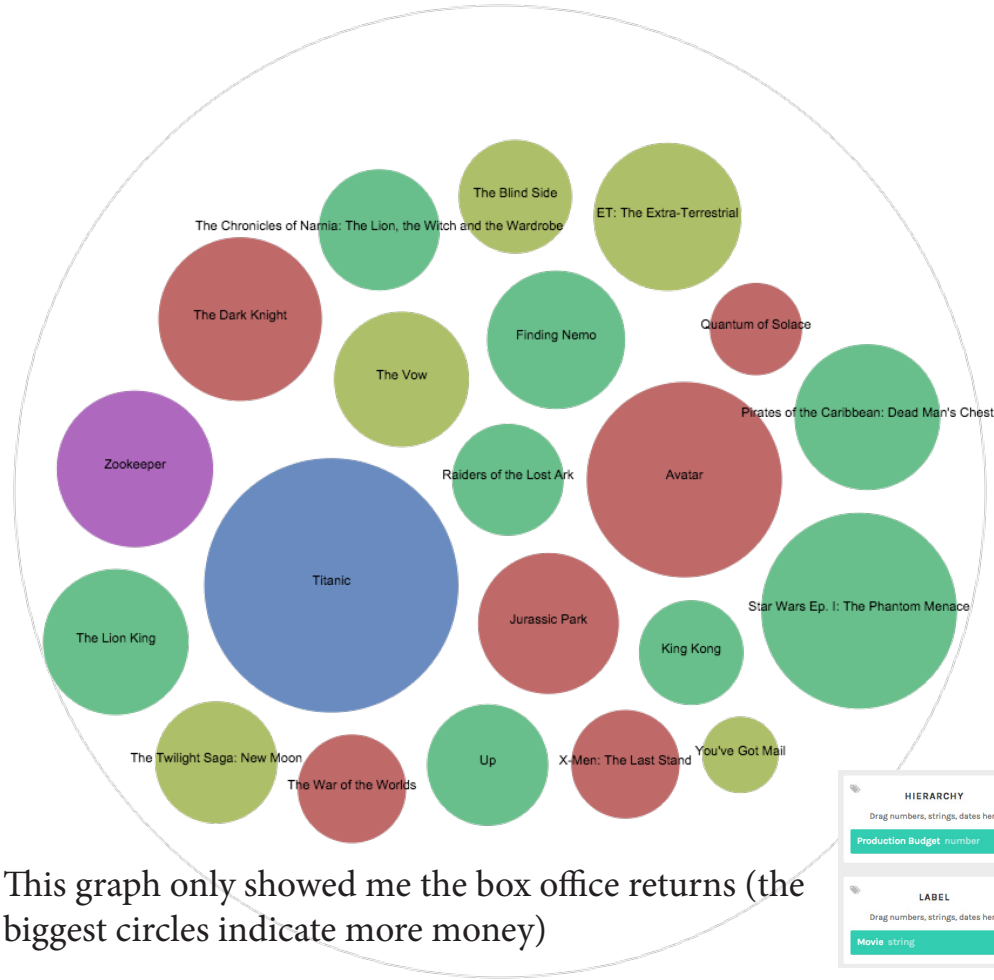
Movie,Genre,Production Budget,Total Domestic Box Office,Rating IMDB
Avatar,Action,425000000,760507625, 8.0
The Blind Side,Drama,35000000,255959475, 7.6
"The Chronicles of Narnia: The Lion, the Witch and the Wardrobe",Adventure,180000000,291710957, 6.9
The Dark Knight,Action,185000000,533345358, 9.0
ET: The Extra-Terrestrial,Drama,10500000,435110554, 7.9
Finding Nemo,Adventure,94000000,380529370, 8.1
Ghostbusters,Comedy,30000000,238632124, 7.8
The Hunger Games,Thriller/Suspense,80000000,408010692, 7.2
Iron Man 3,Action,200000000,396702239, 7.6
Jurassic Park,Action,63000000,395708305, 8.0
King Kong,Adventure,207000000,218080025, 7.3
The Lion King,Adventure,79300000,422780140, 8.4
"Monsters, Inc.",Adventure,115000000,289423425, 8.0
The Twilight Saga: New Moon,Drama,50000000,296623634, 4.5
Oz the Great and Powerful,Adventure,200000000,233671832, 6.6
Pirates of the Caribbean: Dead Man's Chest,Adventure,225000000,423315812, 7.3
Quantum of Solace,Action,230000000,169368427, 6.7
Raiders of the Lost Ark,Adventure,20000000,248159971, 8.7
Star Wars Ep. I: The Phantom Menace,Adventure,115000000,474544677, 6.5
Titanic,Thriller/Suspense,200000000,658672302, 7.6
Up,Adventure,175000000,293004164, 8.3
The Vow,Drama,30000000,125014030, 6.7
The War of the Worlds,Action,132000000,234280354, 6.5
X-Men: The Last Stand,Action,210000000,234362462, 6.8
You've Got Mail,Drama,65000000,115821495, 6.3
Zookeeper,Romantic Comedy,80000000,80360866, 5.0

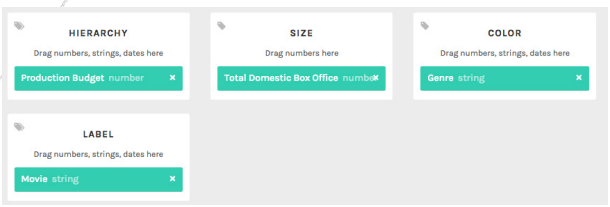
Explore

The data set I chose was already fairly simplified, so I went ahead and began my exploration.



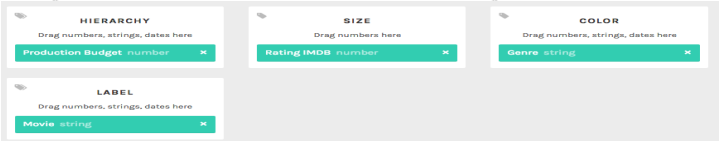
This graph didn't properly represent my information, so I moved on from it.

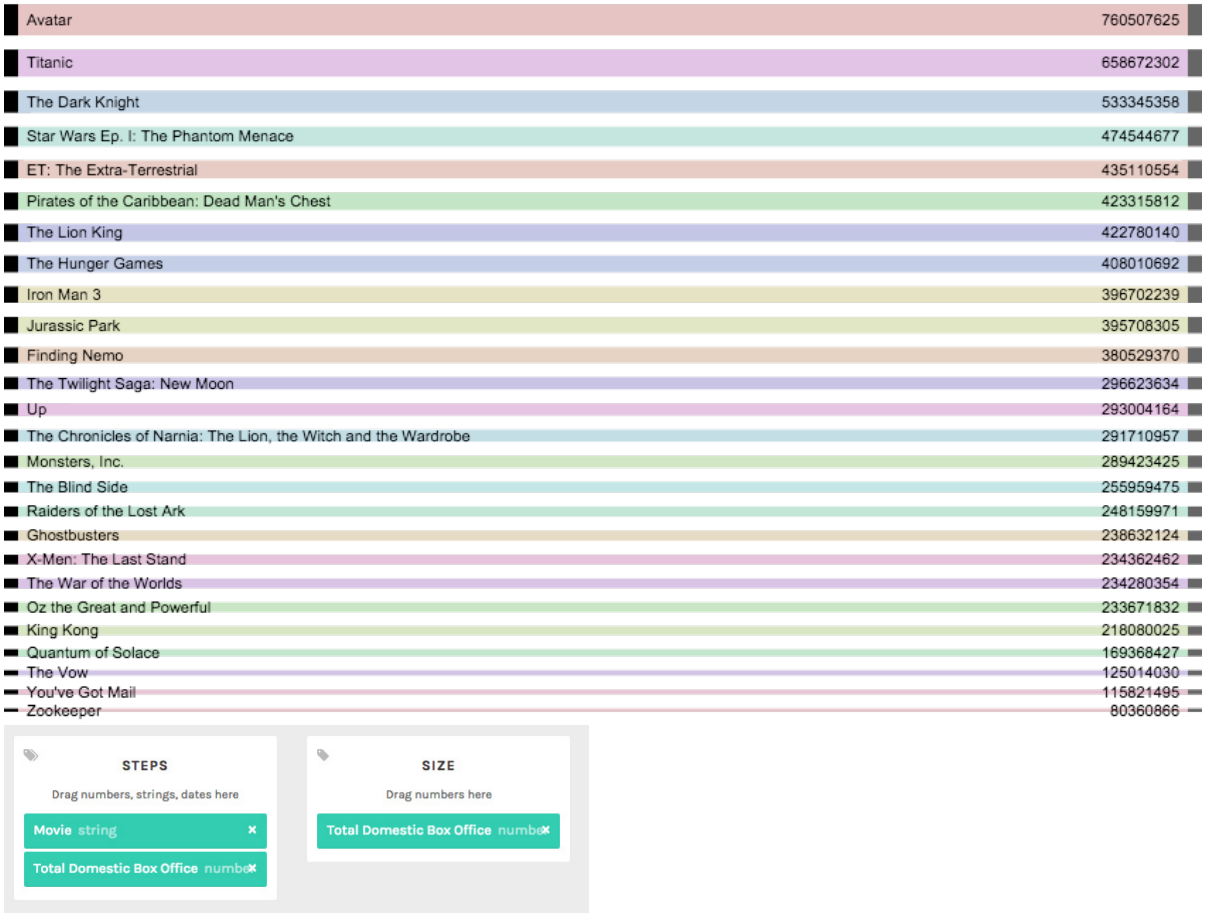


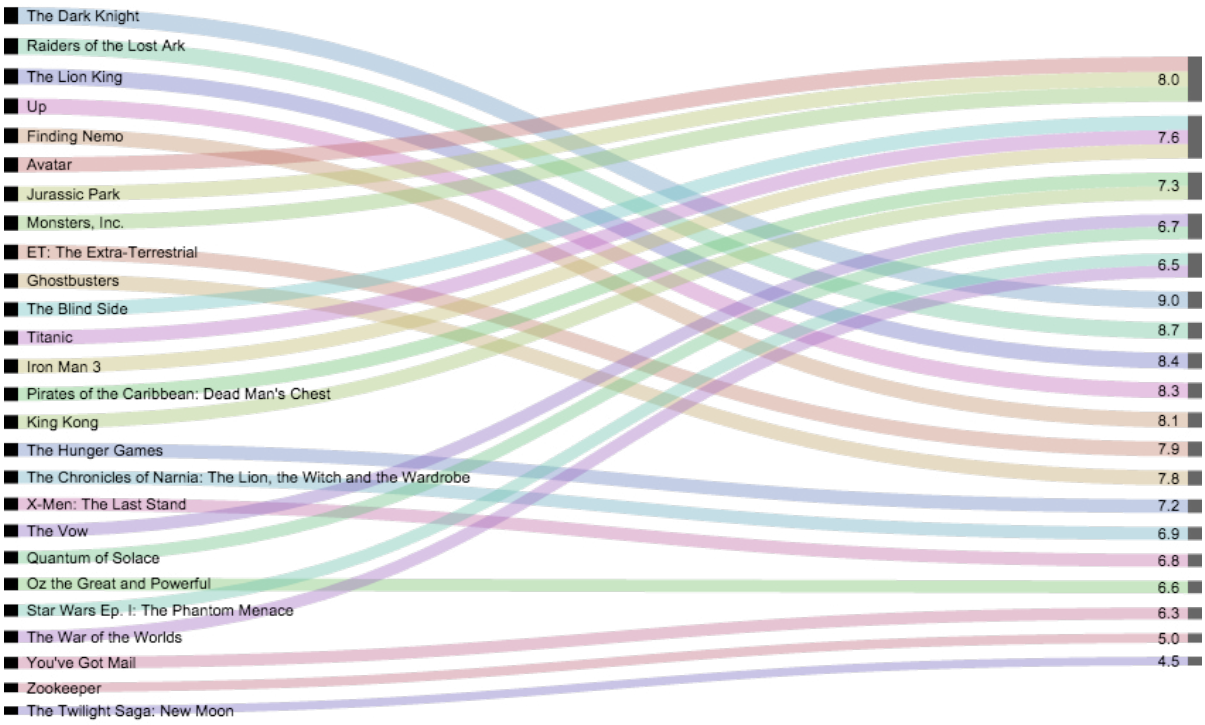


This graph only showed me the box office returns (the biggest circles indicate more money)

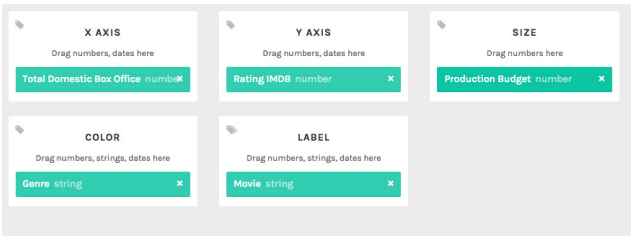
This graph only showed me the IMDB ratings. (the bigger circles indicate a higher rating). When seeing the two side by side, you can find some similarities, but I wanted to see if I could find a graph that would place all them together.



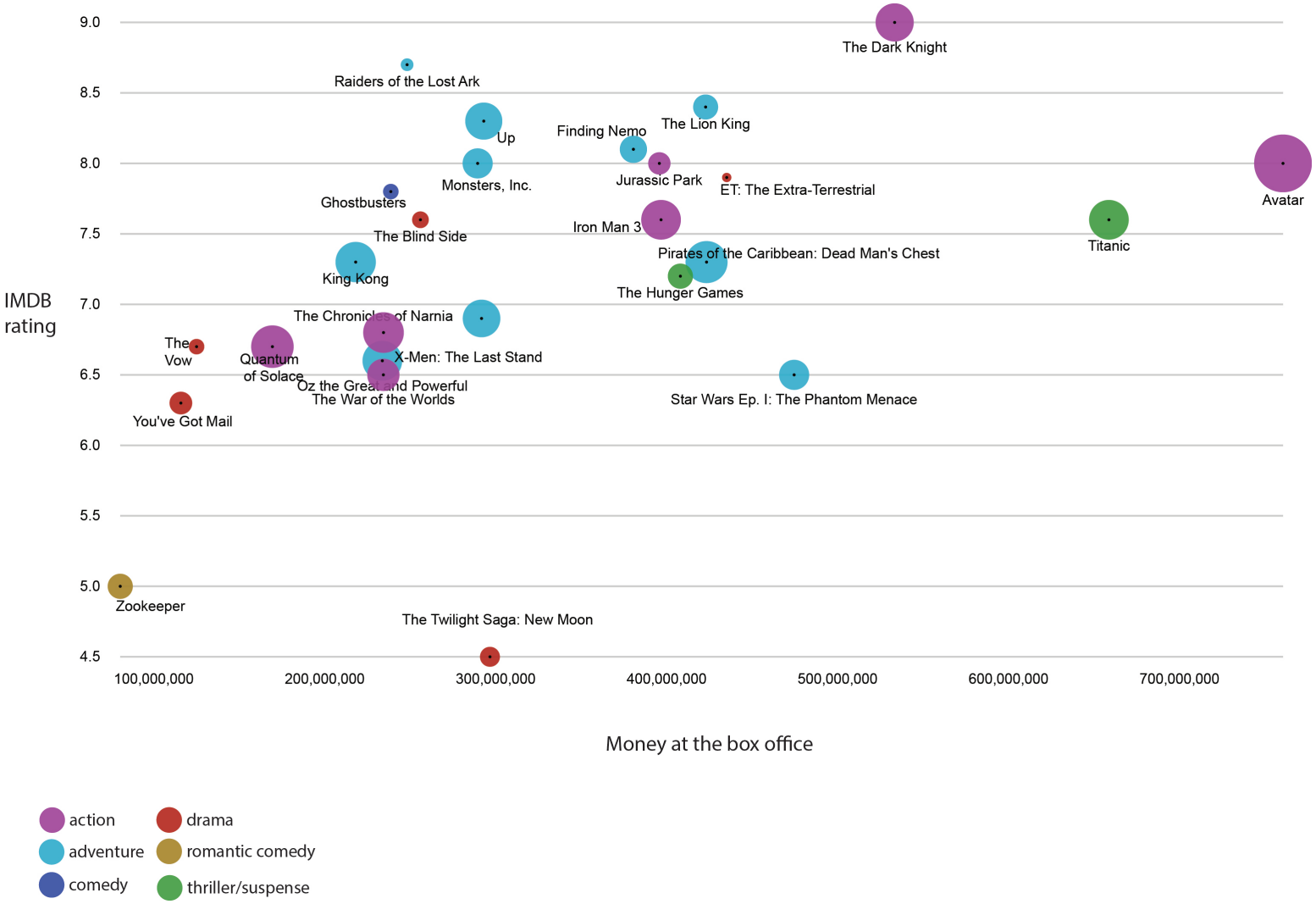




These again showed what I wanted when studied, but not in a simplified manner.



This graph showed the IMDB rating on the Y axis, in comparison to the box office returns on the X axis. It more clearly shows that higher box office returns typically had higher IMDB ratings. I then imported this graphic into illustrator and cleaned it up a little.



Final graph, simplified. This graph shows the correlation between box office totals and IMDB ratings. Usually, the higher the box office total, the higher the rating on IMDB is. It does show that a few movies had lower ratings even though they had large box office returns. This surprised me, but I think further investigations might show why. (For example, if IMBD was used more actively the year the Dark Knight was released than it was the year the Phantom Menace was released.)