

# Final Version of Cinema Centrality

December 11, 2017

```
In [3]: from bs4 import BeautifulSoup, NavigableString, Tag
        from datascience import *
        from collections import Counter
```

## 0.1 Initial Dataset/Table

Below is the table that we were able to creating by scraping information from the IMSDb (Internet Movie Script Database). For each movie on the site, it contains a file paths and appropriate metadata. To see each script in detail, or find out more about the data set, please visit: <http://www.imsdb.com/>

```
In [4]: data = Table.read_table('scripts_metadata.csv')
        data.show(5)
```

<IPython.core.display.HTML object>

Below we eliminated any scripts where the file path was not available or it didn't work properly.

```
In [5]: data = data.where('script_path', are.not_equal_to('nan'))
        data.show(5)
```

<IPython.core.display.HTML object>

## 0.2 Getting Each Movie into our Notebook

Below is how we brought each movie into our notebook. We made a dictionary called all\_scripts to store all the information we obtained (keys=film names and values=an array of the film's characters, an array of the film's scenes, and an array of the film's raw text).

```
In [6]: all_scripts = {}

        for fname in data['script_path']:

            print(fname)
            with open(fname, 'r') as f:
```

```

raw = f.read()
soup = BeautifulSoup(raw, 'html5lib')

try:
    bolded = soup.find('td', {'class': 'scrtext'}).find_all('b') #find all bolded
    text = soup.find('td', {'class': 'scrtext'}).text
    b_text = [b.text.strip() for b in bolded]
    bolded_text = [b for b in b_text if len(b) > 0]
    sift_out = ['INT.', "EXT.", "-", "CONTINUED", ":", "PAN", "MUSIC"] #headers for
    characters = []
    scenes = []
    for c in bolded_text: #what goes into the character array
        character = True
        for s in sift_out:
            if s in c:
                character = False
        if character == True:
            characters.append(c)
        elif len(c) > 4:
            scenes.append(c)

    characters = [c[0] for c in Counter(characters).most_common() if c[1] > 5]

    scenes.extend([c[0] for c in Counter(characters).most_common() if c[1] <= 5 and

    movie_name = fname.split('/')[ -1 ][ :-5 ].replace(' Script', '')

    all_scripts[movie_name] = {}
    all_scripts[movie_name]['cast'] = characters
    all_scripts[movie_name]['scenes'] = scenes
    all_scripts[movie_name]['text'] = text

except:
    pass

```

```

scripts/10 Things I Hate About You Script.html
scripts/12 Script.html
scripts/12 and Holding Script.html
scripts/12 Monkeys Script.html
scripts/12 Years a Slave Script.html
scripts/127 Hours Script.html
scripts/1492: Conquest of Paradise Script.html
scripts/15 Minutes Script.html
scripts/17 Again Script.html
scripts/187 Script.html
scripts/2001: A Space Odyssey Script.html
scripts/2012 Script.html

```

scripts/25th Hour Script.html  
scripts/30 Minutes or Less Script.html  
scripts/42 Script.html  
scripts/44 Inch Chest Script.html  
scripts/48 Hrs. Script.html  
scripts/50-50 Script.html  
scripts/500 Days of Summer Script.html  
scripts/8 Mile Script.html  
scripts/8MM Script.html  
scripts/9 Script.html  
scripts/A Few Good Men Script.html  
scripts/A Most Violent Year Script.html  
scripts/A Serious Man Script.html  
scripts/Above the Law Script.html  
scripts/Absolute Power Script.html  
scripts/Abyss, The Script.html  
scripts/Ace Ventura: Pet Detective Script.html  
scripts/Adaptation Script.html  
scripts/Addams Family, The Script.html  
scripts/Adjustment Bureau, The Script.html  
scripts/Adventures of Buckaroo Banzai Across the Eighth Dimension, The Script.html  
scripts/Affliction Script.html  
scripts/After School Special Script.html  
scripts/After.Life Script.html  
scripts/Agnes of God Script.html  
scripts/Air Force One Script.html  
scripts/Airplane Script.html  
scripts/Airplane 2: The Sequel Script.html  
scripts/Aladdin Script.html  
scripts/Alì Script.html  
scripts/Alien Script.html  
scripts/Alien 3 Script.html  
scripts/Alien Nation Script.html  
scripts/Alien vs. Predator Script.html  
scripts/Alien: Resurrection Script.html  
scripts/Aliens Script.html  
scripts/All About Eve Script.html  
scripts/All About Steve Script.html  
scripts/All the King's Men Script.html  
scripts/All the President's Men Script.html  
scripts/Almost Famous Script.html  
scripts/Alone in the Dark Script.html  
scripts/Amadeus Script.html  
scripts/Amelia Script.html  
scripts/American Beauty Script.html  
scripts/American Gangster Script.html  
scripts/American Graffiti Script.html  
scripts/American History X Script.html

scripts/American Hustle Script.html  
scripts/American Madness Script.html  
scripts/American Outlaws Script.html  
scripts/American Pie Script.html  
scripts/American President, The Script.html  
scripts/American Psycho Script.html  
scripts/American Shaolin: King of Kickboxers II Script.html  
scripts/American Sniper Script.html  
scripts/American Splendor Script.html  
scripts/American Werewolf in London Script.html  
scripts/American, The Script.html  
scripts/Amityville Asylum, The Script.html  
scripts/Amour Script.html  
scripts/An Education Script.html  
scripts/Analyze That Script.html  
scripts/Analyze This Script.html  
scripts/Anastasia Script.html  
scripts/Angel Eyes Script.html  
scripts/Angels & Demons Script.html  
scripts/Anna Karenina Script.html  
scripts/Annie Hall Script.html  
scripts/Anniversary Party, The Script.html  
scripts/Anonymous Script.html  
scripts/Antitrust Script.html  
scripts/Antz Script.html  
scripts/Apartment, The Script.html  
scripts/Apocalypse Now Script.html  
scripts/Apollo 13 Script.html  
scripts/April Fool's Day Script.html  
scripts/Apt Pupil Script.html  
scripts/Arbitrage Script.html  
scripts/Arcade Script.html  
scripts/Arctic Blue Script.html  
scripts/Argo Script.html  
scripts/Armageddon Script.html  
scripts/Army of Darkness Script.html  
scripts/Arsenic and Old Lace Script.html  
scripts/Arthur Script.html  
scripts/Artist, The Script.html  
scripts/As Good As It Gets Script.html  
scripts/Assassins Script.html  
scripts/Assignment, The Script.html  
scripts/At First Sight Script.html  
scripts/August: Osage County Script.html  
scripts/Austin Powers - International Man of Mystery Script.html  
scripts/Austin Powers - The Spy Who Shagged Me Script.html  
scripts/Authors Anonymous Script.html  
scripts/Autumn in New York Script.html

scripts/Avatar Script.html  
scripts/Avengers, The Script.html  
scripts/Avengers, The (2012) Script.html  
scripts/Avventura, L' (The Adventure) Script.html  
scripts/Awakennings Script.html  
scripts/Babel Script.html  
scripts/Bachelor Party Script.html  
scripts/Bachelor Party, The Script.html  
scripts/Back to the Future Script.html  
scripts/Back to the Future II & III Script.html  
scripts/Back-up Plan, The Script.html  
scripts/Backdraft Script.html  
scripts/Bad Boys Script.html  
scripts/Bad Country Script.html  
scripts/Bad Day at Black Rock Script.html  
scripts/Bad Dreams Script.html  
scripts/Bad Lieutenant Script.html  
scripts/Bad Santa Script.html  
scripts/Bad Teacher Script.html  
scripts/Badlands Script.html  
scripts/Bamboozled Script.html  
scripts/Barry Lyndon Script.html  
scripts/Barton Fink Script.html  
scripts/Basic Script.html  
scripts/Basic Instinct Script.html  
scripts/Basquiat Script.html  
scripts/Batman Script.html  
scripts/Batman 2 Script.html  
scripts/Battle of Algiers, The Script.html  
scripts/Battle of Shaker Heights, The Script.html  
scripts/Battle: Los Angeles Script.html  
scripts/Beach, The Script.html  
scripts/Bean Script.html  
scripts/Beasts of the Southern Wild Script.html  
scripts/Beavis and Butt-head Do America Script.html  
scripts/Beginners Script.html  
scripts/Being Human Script.html  
scripts/Being John Malkovich Script.html  
scripts/Being There Script.html  
scripts/Believer, The Script.html  
scripts/Belle Script.html  
scripts/Beloved Script.html  
scripts/Benny & Joon Script.html  
scripts/Best Exotic Marigold Hotel, The Script.html  
scripts/Big Script.html  
scripts/Big Blue, The Script.html  
scripts/Big Eyes Script.html  
scripts/Big Fish Script.html

scripts/Big Lebowski, The Script.html  
scripts/Big White, The Script.html  
scripts/Birdman Script.html  
scripts/Birds, The Script.html  
scripts/Birthday Girl Script.html  
scripts/Black Dahlia, The Script.html  
scripts/Black Rain Script.html  
scripts/Black Snake Moan Script.html  
scripts/Black Swan Script.html  
scripts/Blade Script.html  
scripts/Blade II Script.html  
scripts/Blade Runner Script.html  
scripts/Blade: Trinity Script.html  
scripts/Blast from the Past, The Script.html  
scripts/Blind Side, The Script.html  
scripts/Bling Ring, The Script.html  
scripts/Blood and Wine Script.html  
scripts/Blood Simple Script.html  
scripts/Blow Script.html  
scripts/Blue Valentine Script.html  
scripts/Blue Velvet Script.html  
scripts/Blues Brothers, The Script.html  
scripts/Bodies, Rest & Motion Script.html  
scripts/Body Heat Script.html  
scripts/Body of Evidence Script.html  
scripts/Bodyguard Script.html  
scripts/Bones Script.html  
scripts/Bonfire of the Vanities Script.html  
scripts/Bonnie and Clyde Script.html  
scripts/Boogie Nights Script.html  
scripts/Book of Eli, The Script.html  
scripts/Boondock Saints 2: All Saints Day Script.html  
scripts/Boondock Saints, The Script.html  
scripts/Bottle Rocket Script.html  
scripts/Bound Script.html  
scripts/Bounty Hunter, The Script.html  
scripts/Bourne Identity, The Script.html  
scripts/Bourne Supremacy, The Script.html  
scripts/Bourne Ultimatum, The Script.html  
scripts/Box, The Script.html  
scripts/Boyhood Script.html  
scripts/Braveheart Script.html  
scripts/Brazil Script.html  
scripts/Break Script.html  
scripts/Breakdown Script.html  
scripts/Breakfast Club, The Script.html  
scripts/Breaking Away Script.html  
scripts/Brick Script.html

scripts/Bridesmaids Script.html  
scripts/Bringing Out the Dead Script.html  
scripts/Broadcast News Script.html  
scripts/Broken Arrow Script.html  
scripts/Broken Embraces Script.html  
scripts/Brothers Bloom, The Script.html  
scripts/Bruce Almighty Script.html  
scripts/Buffy the Vampire Slayer Script.html  
scripts/Bull Durham Script.html  
scripts/Buried Script.html  
scripts/Burlesque Script.html  
scripts/Burn After Reading Script.html  
scripts/Burning Annie Script.html  
scripts/Butterfly Effect, The Script.html  
scripts/Cable Guy Script.html  
scripts/Candle to Water Script.html  
scripts/Capote Script.html  
scripts/Carrie Script.html  
scripts/Cars 2 Script.html  
scripts/Case 39 Script.html  
scripts/Casino Script.html  
scripts/Cast Away Script.html  
scripts/Catch Me If You Can Script.html  
scripts/Catwoman Script.html  
scripts/Cecil B. Demented Script.html  
scripts/Cedar Rapids Script.html  
scripts/Celeste & Jesse Forever Script.html  
scripts/Cell, The Script.html  
scripts/Cellular Script.html  
scripts/Change-Up, The Script.html  
scripts/Changeling Script.html  
scripts/Chaos Script.html  
scripts/Charade Script.html  
scripts/Charlie's Angels Script.html  
scripts/Chasing Amy Script.html  
scripts/Chasing Sleep Script.html  
scripts/Cherry Falls Script.html  
scripts/Chinatown Script.html  
scripts/Christ Complex Script.html  
scripts/Chronicle Script.html  
scripts/Chronicles of Narnia: The Lion, the Witch and the Wardrobe Script.html  
scripts/Cider House Rules, The Script.html  
scripts/Cincinnati Kid, The Script.html  
scripts/Cinema Paradiso Script.html  
scripts/Cirque du Freak: The Vampire's Assistant Script.html  
scripts/Citizen Kane Script.html  
scripts/City of Joy Script.html  
scripts/Clash of the Titans Script.html

scripts/Clerks Script.html  
scripts/Cliffhanger Script.html  
scripts/Clockwork Orange, A Script.html  
scripts/Clueless Script.html  
scripts/Cobb Script.html  
scripts/Code of Silence Script.html  
scripts/Cold Mountain Script.html  
scripts/Collateral Script.html  
scripts/Collateral Damage Script.html  
scripts/Colombiana Script.html  
scripts/Color of Night Script.html  
scripts/Commando Script.html  
scripts/Conan the Barbarian Script.html  
scripts/Confessions of a Dangerous Mind Script.html  
scripts/Confidence Script.html  
scripts/Constantine Script.html  
scripts/Cooler, The Script.html  
scripts/Copycat Script.html  
scripts/Coraline Script.html  
scripts/Coriolanus Script.html  
scripts/Courage Under Fire Script.html  
scripts/Cowboys & Aliens Script.html  
scripts/Cradle 2 the Grave Script.html  
scripts/Crank Script.html  
scripts/Crash Script.html  
scripts/Crazy, Stupid, Love Script.html  
scripts/Crazylove Script.html  
scripts/Creation Script.html  
scripts/Crime Spree Script.html  
scripts/Croods, The Script.html  
scripts/Crouching Tiger, Hidden Dragon Script.html  
scripts/Croupier Script.html  
scripts/Crow Salvation, The Script.html  
scripts/Crow, The Script.html  
scripts/Crow: City of Angels, The Script.html  
scripts/Cruel Intentions Script.html  
scripts/Crying Game Script.html  
scripts/Cube Script.html  
scripts/Curious Case of Benjamin Button, The Script.html  
scripts/Custody Script.html  
scripts/Dallas Buyers Club Script.html  
scripts/Damned United, The Script.html  
scripts/Dances with Wolves Script.html  
scripts/Dark City Script.html  
scripts/Dark Knight Rises, The Script.html  
scripts/Dark Star Script.html  
scripts/Darkman Script.html  
scripts/Date Night Script.html



scripts/Dave Barry's Complete Guide to Guys Script.html  
scripts/Dawn of the Dead Script.html  
scripts/Day of the Dead Script.html  
scripts/Day the Clown Cried, The Script.html  
scripts/Day the Earth Stood Still, The Script.html  
scripts/Days of Heaven Script.html  
scripts/Dead Poets Society Script.html  
scripts/Deadpool Script.html  
scripts/Dear White People Script.html  
scripts/Death at a Funeral Script.html  
scripts/Death to Smoochy Script.html  
scripts/Debt, The Script.html  
scripts/Deception Script.html  
scripts/Deep Cover Script.html  
scripts/Deep Rising Script.html  
scripts/Deer Hunter, The Script.html  
scripts/Defiance Script.html  
scripts/Departed, The Script.html  
scripts/Descendants, The Script.html  
scripts/Despicable Me 2 Script.html  
scripts/Detroit Rock City Script.html  
scripts/Devil in a Blue Dress Script.html  
scripts/Devil's Advocate Script.html  
scripts/Die Hard Script.html  
scripts/Die Hard 2 Script.html  
scripts/Diner Script.html  
scripts/Distinguished Gentleman, The Script.html  
scripts/Disturbia Script.html  
scripts/Django Unchained Script.html  
scripts/Do The Right Thing Script.html  
scripts/Dog Day Afternoon Script.html  
scripts/Dogma Script.html  
scripts/Donnie Brasco Script.html  
scripts/Doors, The Script.html  
scripts/Double Indemnity Script.html  
scripts/Drag Me to Hell Script.html  
scripts/Dragonslayer Script.html  
scripts/Drive Script.html  
scripts/Drive Angry Script.html  
scripts/Drop Dead Gorgeous Script.html  
scripts/Dry White Season, A Script.html  
scripts/Duck Soup Script.html  
scripts/Dumb and Dumber Script.html  
scripts/Dune Script.html  
scripts/E.T. Script.html  
scripts/Eagle Eye Script.html  
scripts/Eastern Promises Script.html  
scripts/Easy A Script.html

scripts/Ed TV Script.html  
scripts/Ed Wood Script.html  
scripts/Edward Scissorhands Script.html  
scripts/Eight Legged Freaks Script.html  
scripts/El Mariachi Script.html  
scripts/Election Script.html  
scripts/Elephant Man, The Script.html  
scripts/Elizabeth: The Golden Age Script.html  
scripts/Enemy of the State Script.html  
scripts/English Patient, The Script.html  
scripts/Enough Script.html  
scripts/Entrapment Script.html  
scripts/Equilibrium Script.html  
scripts/Erik the Viking Script.html  
scripts/Erin Brockovich Script.html  
scripts/Escape From L.A. Script.html  
scripts/Escape From New York Script.html  
scripts/Eternal Sunshine of the Spotless Mind Script.html  
scripts/Even Cowgirls Get the Blues Script.html  
scripts/Event Horizon Script.html  
scripts/Evil Dead Script.html  
scripts/Evil Dead II: Dead by Dawn Script.html  
scripts/Ex Machina Script.html  
scripts/Excalibur Script.html  
scripts/eXistenZ Script.html  
scripts/Extract Script.html  
scripts/Fabulous Baker Boys, The Script.html  
scripts/Face Off Script.html  
scripts/Fair Game Script.html  
scripts/Family Man, The Script.html  
scripts/Fantastic Four Script.html  
scripts/Fantastic Mr Fox Script.html  
scripts/Fargo Script.html  
scripts/Fast Times at Ridgemont High Script.html  
scripts/Fatal Instinct Script.html  
scripts/Fault in Our Stars, The Script.html  
scripts/Fear and Loathing in Las Vegas Script.html  
scripts/Feast Script.html  
scripts/Ferris Bueller's Day Off Script.html  
scripts/Field of Dreams Script.html  
scripts/Fifth Element, The Script.html  
scripts/Fight Club Script.html  
scripts/Fighter, The Script.html  
scripts/Final Destination Script.html  
scripts/Final Destination 2 Script.html  
scripts/Finding Nemo Script.html  
scripts/Five Easy Pieces Script.html  
scripts/Flash Gordon Script.html

scripts/Fletch Script.html  
scripts/Flight Script.html  
scripts/Flintstones, The Script.html  
scripts/Forrest Gump Script.html  
scripts/Four Feathers Script.html  
scripts/Four Rooms Script.html  
scripts/Foxcatcher Script.html  
scripts/Fracture Script.html  
scripts/Frances Script.html  
scripts/Frankenstein Script.html  
scripts/Frankenweenie Script.html  
scripts/Freaked Script.html  
scripts/Freddy vs. Jason Script.html  
scripts/French Connection, The Script.html  
scripts/Frequency Script.html  
scripts/Friday the 13th Script.html  
scripts/Friday the 13th Part VIII: Jason Takes Manhattan Script.html  
scripts/Fright Night Script.html  
scripts/Fright Night (1985) Script.html  
scripts/From Dusk Till Dawn Script.html  
scripts/From Here to Eternity Script.html  
scripts/Frozen Script.html  
scripts/Frozen (Disney) Script.html  
scripts/Frozen River Script.html  
scripts/Fruitvale Station Script.html  
scripts/Fugitive, The Script.html  
scripts/Funny People Script.html  
scripts/G.I. Jane Script.html  
scripts/G.I. Joe: The Rise of Cobra Script.html  
scripts/Game 6 Script.html  
scripts/Game, The Script.html  
scripts/Gamer Script.html  
scripts/Gandhi Script.html  
scripts/Gang Related Script.html  
scripts/Gangs of New York Script.html  
scripts/Garden State Script.html  
scripts/Gattaca Script.html  
scripts/Get Carter Script.html  
scripts/Get Low Script.html  
scripts/Get on Up Script.html  
scripts/Get Shorty Script.html  
scripts/Getaway, The Script.html  
scripts/Ghost Script.html  
scripts/Ghost and the Darkness, The Script.html  
scripts/Ghost Rider Script.html  
scripts/Ghost Ship Script.html  
scripts/Ghost World Script.html  
scripts/Ghostbusters Script.html

scripts/Ghostbusters 2 Script.html  
scripts/Ginger Snaps Script.html  
scripts/Girl with the Dragon Tattoo, The Script.html  
scripts/Gladiator Script.html  
scripts/Glengarry Glen Ross Script.html  
scripts/Go Script.html  
scripts/Godfather Script.html  
scripts/Godfather Part II Script.html  
scripts/Godfather Part III, The Script.html  
scripts/Gods and Monsters Script.html  
scripts/Godzilla Script.html  
scripts/Gone in 60 Seconds Script.html  
scripts/Good Girl, The Script.html  
scripts/Good Will Hunting Script.html  
scripts/Gothika Script.html  
scripts/Graduate, The Script.html  
scripts/Gran Torino Script.html  
scripts/Grand Hotel Script.html  
scripts/Grand Theft Parsons Script.html  
scripts/Grapes of Wrath, The Script.html  
scripts/Gravity Script.html  
scripts/Green Mile, The Script.html  
scripts/Gremlins Script.html  
scripts/Gremlins 2 Script.html  
scripts/Grifters, The Script.html  
scripts/Grosse Pointe Blank Script.html  
scripts/Groundhog Day Script.html  
scripts/Grudge, The Script.html  
scripts/Hackers Script.html  
scripts/Hall Pass Script.html  
scripts/Halloween: The Curse of Michael Myers Script.html  
scripts/Hancock Script.html  
scripts/Hangover, The Script.html  
scripts/Hanna Script.html  
scripts/Hannah and Her Sisters Script.html  
scripts/Hannibal Script.html  
scripts/Happy Birthday, Wanda June Script.html  
scripts/Happy Feet Script.html  
scripts/Hard Rain Script.html  
scripts/Hard to Kill Script.html  
scripts/Harold and Kumar Go to White Castle Script.html  
scripts/Haunting, The Script.html  
scripts/He's Just Not That Into You Script.html  
scripts/Heat Script.html  
scripts/Heathers Script.html  
scripts/Heavenly Creatures Script.html  
scripts/Heavy Metal Script.html  
scripts/Hebrew Hammer, The Script.html

scripts/Heist Script.html  
scripts/Hellbound: Hellraiser II Script.html  
scripts/Hellboy Script.html  
scripts/Hellboy 2: The Golden Army Script.html  
scripts/Hellraiser Script.html  
scripts/Hellraiser 3: Hell on Earth Script.html  
scripts/Hellraiser: Deader Script.html  
scripts/Hellraiser: Hellseeker Script.html  
scripts/Help, The Script.html  
scripts/Henry Fool Script.html  
scripts/Henry's Crime Script.html  
scripts/Her Script.html  
scripts/Hesher Script.html  
scripts/High Fidelity Script.html  
scripts/Highlander Script.html  
scripts/Highlander: Endgame Script.html  
scripts/Hills Have Eyes, The Script.html  
scripts/His Girl Friday Script.html  
scripts/Hitchcock Script.html  
scripts/Hitchhiker's Guide to the Galaxy, The Script.html  
scripts/Hollow Man Script.html  
scripts/Honeydripper Script.html  
scripts/Horrible Bosses Script.html  
scripts/Horse Whisperer, The Script.html  
scripts/Hospital, The Script.html  
scripts/Hostage Script.html  
scripts/Hot Tub Time Machine Script.html  
scripts/Hotel Rwanda Script.html  
scripts/House of 1000 Corpses Script.html  
scripts/How to Lose Friends & Alienate People Script.html  
scripts/How to Train Your Dragon Script.html  
scripts/How to Train Your Dragon 2 Script.html  
scripts/Hudson Hawk Script.html  
scripts/Hudsucker Proxy, The Script.html  
scripts/Human Nature Script.html  
scripts/Hunt for Red October, The Script.html  
scripts/I Am Number Four Script.html  
scripts/I am Sam Script.html  
scripts/I Love You Phillip Morris Script.html  
scripts/I Spit on Your Grave Script.html  
scripts/I Still Know What You Did Last Summer Script.html  
scripts/I'll Do Anything Script.html  
scripts/I, Robot Script.html  
scripts/Ice Storm, The Script.html  
scripts/Ides of March, The Script.html  
scripts/Imaginarium of Doctor Parnassus, The Script.html  
scripts/In the Bedroom Script.html  
scripts/In the Loop Script.html

scripts/Inception Script.html  
scripts/Incredibles, The Script.html  
scripts/Independence Day Script.html  
scripts/Indiana Jones and the Last Crusade Script.html  
scripts/Indiana Jones and the Raiders of the Lost Ark Script.html  
scripts/Indiana Jones and the Temple of Doom Script.html  
scripts/Indiana Jones IV Script.html  
scripts/Informant, The Script.html  
scripts/Inglourious Basterds Script.html  
scripts/Insider, The Script.html  
scripts/Insidious Script.html  
scripts/Insomnia Script.html  
scripts/Interstellar Script.html  
scripts/Interview with the Vampire Script.html  
scripts/Into the Wild Script.html  
scripts/Into the Woods Script.html  
scripts/Intolerable Cruelty Script.html  
scripts/Inventing the Abbotts Script.html  
scripts/Invention of Lying, The Script.html  
scripts/Invictus Script.html  
scripts/Iron Lady, The Script.html  
scripts/Island, The Script.html  
scripts/It Happened One Night Script.html  
scripts/It Happened One Night Script.html  
scripts/It's a Wonderful Life Script.html  
scripts/It's Complicated Script.html  
scripts/Italian Job, The Script.html  
scripts/Jacket, The Script.html  
scripts/Jackie Brown Script.html  
scripts/Jacob's Ladder Script.html  
scripts/Jade Script.html  
scripts/Jane Eyre Script.html  
scripts/Jason X Script.html  
scripts/Jaws Script.html  
scripts/Jaws 2 Script.html  
scripts/Jay and Silent Bob Strike Back Script.html  
scripts/Jennifer Eight Script.html  
scripts/Jennifer's Body Script.html  
scripts/Jerry Maguire Script.html  
scripts/Jeux Interdits Script.html  
scripts/JFK Script.html  
scripts/Jimmy and Judy Script.html  
scripts/John Q Script.html  
scripts/Judge Dredd Script.html  
scripts/Juno Script.html  
scripts/Jurassic Park Script.html  
scripts/Jurassic Park III Script.html  
scripts/Jurassic Park: The Lost World Script.html

scripts/Kafka Script.html  
scripts/Kalifornia Script.html  
scripts/Kate & Leopold Script.html  
scripts/Kids Script.html  
scripts/Kids Are All Right, The Script.html  
scripts/Kill Bill Volume 1 & 2 Script.html  
scripts/Kill Your Darlings Script.html  
scripts/Killing Zoe Script.html  
scripts/King Kong Script.html  
scripts/King of Comedy, The Script.html  
scripts/King's Speech, The Script.html  
scripts/Kingdom, The Script.html  
scripts/Kiss of the Spider Woman Script.html  
scripts/Klute Script.html  
scripts/Knocked Up Script.html  
scripts/Kramer vs Kramer Script.html  
scripts/Kundun Script.html  
scripts/Kung Fu Panda Script.html  
scripts/L.A. Confidential Script.html  
scripts/La La Land Script.html  
scripts/Labor of Love Script.html  
scripts/Labyrinth Script.html  
scripts/Ladykillers, The Script.html  
scripts/Lake Placid Script.html  
scripts/Land of the Dead Script.html  
scripts/Larry Crowne Script.html  
scripts/Last Boy Scout, The Script.html  
scripts/Last Chance Harvey Script.html  
scripts/Last Flight, The Script.html  
scripts/Last of the Mohicans, The Script.html  
scripts/Last Samurai, The Script.html  
scripts/Last Station, The Script.html  
scripts/Last Tango in Paris Script.html  
scripts/Law Abiding Citizen Script.html  
scripts/Le Diable par la Queue Script.html  
scripts/Leaving Las Vegas Script.html  
scripts/Legally Blonde Script.html  
scripts/Legend Script.html  
scripts/Legion Script.html  
scripts/Les Miserables Script.html  
scripts/Les Tontons Flingueurs Script.html  
scripts/Leviathan Script.html  
scripts/Liar Liar Script.html  
scripts/Life Script.html  
scripts/Life As A House Script.html  
scripts/Life of David Gale, The Script.html  
scripts/Life of Pi Script.html  
scripts/Light Sleeper Script.html

scripts/Limey, The Script.html  
scripts/Limitless Script.html  
scripts/Lincoln Script.html  
scripts/Lincoln Lawyer, The Script.html  
scripts/Lion King, The Script.html  
scripts/Little Athens Script.html  
scripts/Little Mermaid, The Script.html  
scripts/Little Nicky Script.html  
scripts/Living in Oblivion Script.html  
scripts/Lock, Stock and Two Smoking Barrels Script.html  
scripts/Logan's Run Script.html  
scripts/Lone Star Script.html  
scripts/Long Kiss Goodnight, The Script.html  
scripts/Looper Script.html  
scripts/Lord of Illusions Script.html  
scripts/Lord of the Rings: Fellowship of the Ring, The Script.html  
scripts/Lord of the Rings: Return of the King Script.html  
scripts/Lord of the Rings: The Two Towers Script.html  
scripts/Lord of War Script.html  
scripts/Losers, The Script.html  
scripts/Lost Highway Script.html  
scripts/Lost Horizon Script.html  
scripts/Lost in Space Script.html  
scripts/Lost in Translation Script.html  
scripts/Love and Basketball Script.html  
scripts/Machete Script.html  
scripts/Machine Gun Preacher Script.html  
scripts/Mad Max 2: The Road Warrior Script.html  
scripts/Made Script.html  
scripts/Magnolia Script.html  
scripts/Majestic, The (The Bijou) Script.html  
scripts/Major League Script.html  
scripts/Malcolm X Script.html  
scripts/Malibu's Most Wanted Script.html  
scripts/Man in the Iron Mask Script.html  
scripts/Man On Fire Script.html  
scripts/Man on the Moon Script.html  
scripts/Man Trouble Script.html  
scripts/Man Who Knew Too Much, The Script.html  
scripts/Man Who Wasn't There, The Script.html  
scripts/Manchurian Candidate, The Script.html  
scripts/Manhattan Murder Mystery Script.html  
scripts/Manhunter Script.html  
scripts/Margaret Script.html  
scripts/Margin Call Script.html  
scripts/Margot at the Wedding Script.html  
scripts/Mariachi, El Script.html  
scripts/Marley & Me Script.html



scripts/Martha Marcy May Marlene Script.html  
scripts/Marty Script.html  
scripts/Mary Poppins Script.html  
scripts/Mask, The Script.html  
scripts/Master and Commander Script.html  
scripts/Master, The Script.html  
scripts/Matrix Reloaded, The Script.html  
scripts/Matrix, The Script.html  
scripts/Max Payne Script.html  
scripts/Mean Streets Script.html  
scripts/Mechanic, The Script.html  
scripts/Meet Joe Black Script.html  
scripts/Meet John Doe Script.html  
scripts/Megamind Script.html  
scripts/Memento Script.html  
scripts/Men in Black Script.html  
scripts/Men in Black 3 Script.html  
scripts/Men Who Stare at Goats, The Script.html  
scripts/Metro Script.html  
scripts/Miami Vice Script.html  
scripts/Midnight Cowboy Script.html  
scripts/Midnight Express Script.html  
scripts/Midnight in Paris Script.html  
scripts/Mighty Morphin Power Rangers: The Movie Script.html  
scripts/Milk Script.html  
scripts/Miller's Crossing Script.html  
scripts/Mimic Script.html  
scripts/Mini's First Time Script.html  
scripts/Minority Report Script.html  
scripts/Miracle Worker, The Script.html  
scripts/Mirrors Script.html  
scripts/Misery Script.html  
scripts/Mission Impossible Script.html  
scripts/Mission Impossible II Script.html  
scripts/Mission to Mars Script.html  
scripts/Moneyball Script.html  
scripts/Monkeybone Script.html  
scripts/Monster's Ball Script.html  
scripts/Monte Carlo Script.html  
scripts/Moon Script.html  
scripts/Moonrise Kingdom Script.html  
scripts/Moonstruck Script.html  
scripts/Mr Blandings Builds His Dream House Script.html  
scripts/Mr Brooks Script.html  
scripts/Mr Deeds Goes to Town Script.html  
scripts/Mr. Holland's Opus Script.html  
scripts/Mrs. Brown Script.html  
scripts/Mud Script.html

scripts/Mulan Script.html  
scripts/Mulholland Drive Script.html  
scripts/Mumford Script.html  
scripts/Mummy, The Script.html  
scripts/Music of the Heart Script.html  
scripts/Mute Witness Script.html  
scripts/My Best Friend's Wedding Script.html  
scripts/My Girl Script.html  
scripts/My Mother Dreams the Satan's Disciples in New York Script.html  
scripts/My Week with Marilyn Script.html  
scripts/Mystery Men Script.html  
scripts/Napoleon Dynamite Script.html  
scripts/Nashville Script.html  
scripts/Natural Born Killers Script.html  
scripts/Never Been Kissed Script.html  
scripts/Neverending Story, The Script.html  
scripts/New York Minute Script.html  
scripts/Newsies Script.html  
scripts/Next Script.html  
scripts/Next Friday Script.html  
scripts/Next Three Days, The Script.html  
scripts/Ni vu ni connu Script.html  
scripts/Nick of Time Script.html  
scripts/Night Time (The Poltergeist Treatment) Script.html  
scripts/Nightbreed Script.html  
scripts/Nightmare Before Christmas, The Script.html  
scripts/Nightmare Before Christmas, The Script.html  
scripts/Nightmare on Elm Street, A Script.html  
scripts/Nightmare on Elm Street: The Final Chapter Script.html  
scripts/Nine Script.html  
scripts/Nines, The Script.html  
scripts/Ninja Assassin Script.html  
scripts/Ninotchka Script.html  
scripts/Ninth Gate, The Script.html  
scripts/No Country for Old Men Script.html  
scripts/No Strings Attached Script.html  
scripts/Notting Hill Script.html  
scripts/Nurse Betty Script.html  
scripts/O Brother Where Art Thou? Script.html  
scripts/Oblivion Script.html  
scripts/Observe and Report Script.html  
scripts/Obsessed Script.html  
scripts/Ocean's Eleven Script.html  
scripts/Ocean's Twelve Script.html  
scripts/Office Space Script.html  
scripts/Officer and a Gentleman, An Script.html  
scripts/Omega Man Script.html  
scripts/One Flew Over the Cuckoo's Nest Script.html

scripts/Only God Forgives Script.html  
scripts/Ordinary People Script.html  
scripts/Orgy of the Dead Script.html  
scripts/Orphan Script.html  
scripts/Other Boleyn Girl, The Script.html  
scripts/Out of Sight Script.html  
scripts/Pacifier, The Script.html  
scripts/Pandorum Script.html  
scripts/Panic Room Script.html  
scripts/Papadopoulos & Sons Script.html  
scripts/ParaNorman Script.html  
scripts/Pariah Script.html  
scripts/Passion of Joan of Arc, The Script.html  
scripts/Patriot, The Script.html  
scripts/Paul Script.html  
scripts/Pearl Harbor Script.html  
scripts/Peeping Tom Script.html  
scripts/Peggy Sue Got Married Script.html  
scripts/Perfect Creature Script.html  
scripts/Perfect World, A Script.html  
scripts/Perks of Being a Wallflower, The Script.html  
scripts/Pet Sematary Script.html  
scripts/Pet Sematary II Script.html  
scripts/Petulia Script.html  
scripts/Philadelphia Script.html  
scripts/Phone Booth Script.html  
scripts/Pi Script.html  
scripts/Pianist, The Script.html  
scripts/Piano, The Script.html  
scripts/Pineapple Express Script.html  
scripts/Pirates of the Caribbean Script.html  
scripts/Pirates of the Caribbean: Dead Man's Chest Script.html  
scripts/Pitch Black Script.html  
scripts/Planet of the Apes, The Script.html  
scripts/Platinum Blonde Script.html  
scripts/Platoon Script.html  
scripts/Pleasantville Script.html  
scripts/Point Break Script.html  
scripts/Pokemon: Mewtwo Returns Script.html  
scripts/Postman, The Script.html  
scripts/Power of One, The Script.html  
scripts/Precious Script.html  
scripts/Predator Script.html  
scripts/Pretty Woman Script.html  
scripts/Pretty Woman (final script) Script.html  
scripts/Pride and Prejudice Script.html  
scripts/Priest Script.html  
scripts/Princess Bride, The Script.html

scripts/Private Life of Sherlock Holmes, The Script.html  
scripts/Producer, The Script.html  
scripts/Program, The Script.html  
scripts/Prom Night Script.html  
scripts/Prometheus Script.html  
scripts/Prophecy, The Script.html  
scripts/Proposal, The Script.html  
scripts/Psycho Script.html  
scripts/Public Enemies Script.html  
scripts/Pulp Fiction Script.html  
scripts/Punch-Drunk Love Script.html  
scripts/Purple Rain Script.html  
scripts/Quantum Project Script.html  
scripts/Queen of the Damned Script.html  
scripts/Queen, The Script.html  
scripts/Rachel Getting Married Script.html  
scripts/Raging Bull Script.html  
scripts/Raising Arizona Script.html  
scripts/Rambling Rose Script.html  
scripts/Rambo: First Blood II: The Mission Script.html  
scripts/Reader, The Script.html  
scripts/Real Genius Script.html  
scripts/Rear Window Script.html  
scripts/Rebel Without A Cause Script.html  
scripts/Red Planet Script.html  
scripts/Red Riding Hood Script.html  
scripts/Reindeer Games Script.html  
scripts/Relic, The Script.html  
scripts/Remember Me Script.html  
scripts/Replacements, The Script.html  
scripts/Repo Man Script.html  
scripts/Rescuers Down Under, The Script.html  
scripts/Reservoir Dogs Script.html  
scripts/Resident Evil Script.html  
scripts/Return of the Apes Script.html  
scripts/Revenant, The Script.html  
scripts/Revolutionary Road Script.html  
scripts/Ringu Script.html  
scripts/Rise of the Guardians Script.html  
scripts/Rise of the Planet of the Apes Script.html  
scripts/RKO 281 Script.html  
scripts/Road, The Script.html  
scripts/Robin Hood: Prince of Thieves Script.html  
scripts/Robocop Script.html  
scripts/Rock, The Script.html  
scripts/RocknRolla Script.html  
scripts/Rocky Script.html  
scripts/Rocky Horror Picture Show, The Script.html

scripts/Romeo & Juliet Script.html  
scripts/Ronin Script.html  
scripts/Room Script.html  
scripts/Roommate, The Script.html  
scripts/Roughshod Script.html  
scripts/Ruins, The Script.html  
scripts/Runaway Bride Script.html  
scripts/Rush Script.html  
scripts/Rush Hour Script.html  
scripts/Rush Hour 2 Script.html  
scripts/Rushmore Script.html  
scripts/Rust and Bone Script.html  
scripts/S. Darko Script.html  
scripts/Saint, The Script.html  
scripts/Salton Sea, The Script.html  
scripts/Sandlot Kids, The Script.html  
scripts/Save the Last Dance Script.html  
scripts/Saving Mr. Banks Script.html  
scripts/Saving Private Ryan Script.html  
scripts/Saw Script.html  
scripts/Scarface Script.html  
scripts/Scary Movie 2 Script.html  
scripts/Schindler's List Script.html  
scripts/Scott Pilgrim vs the World Script.html  
scripts/Scream Script.html  
scripts/Scream 2 Script.html  
scripts/Scream 3 Script.html  
scripts/Se7en Script.html  
scripts/Searchers, The Script.html  
scripts/Semi-Pro Script.html  
scripts/Sense and Sensibility Script.html  
scripts/Serenity Script.html  
scripts/Serial Mom Script.html  
scripts/Sessions, The Script.html  
scripts/Seventh Seal, The Script.html  
scripts/Sex and the City Script.html  
scripts/Sex, Lies and Videotape Script.html  
scripts/Sexual Life Script.html  
scripts/Shadow of the Vampire Script.html  
scripts/Shakespeare in Love Script.html  
scripts/Shallow Grave Script.html  
scripts/Shame Script.html  
scripts/Shampoo Script.html  
scripts/Shawshank Redemption, The Script.html  
scripts/She's Out of My League Script.html  
scripts/Sherlock Holmes Script.html  
scripts/Shifty Script.html  
scripts/Shining, The Script.html

scripts/Shipping News, The Script.html  
scripts/Shivers Script.html  
scripts/Shrek Script.html  
scripts/Shrek the Third Script.html  
scripts/Sideways Script.html  
scripts/Siege, The Script.html  
scripts/Signs Script.html  
scripts/Silence of the Lambs Script.html  
scripts/Silver Bullet Script.html  
scripts/Silver Linings Playbook Script.html  
scripts/Simone Script.html  
scripts/Single White Female Script.html  
scripts/Sister Act Script.html  
scripts/Six Degrees of Separation Script.html  
scripts/Sixth Sense, The Script.html  
scripts/Sleepless in Seattle Script.html  
scripts/Sleepy Hollow Script.html  
scripts/Sling Blade Script.html  
scripts/Slither Script.html  
scripts/Slumdog Millionaire Script.html  
scripts/Smashed Script.html  
scripts/Smokin' Aces Script.html  
scripts/Snatch Script.html  
scripts/Sneakers Script.html  
scripts/Snow Falling On Cedars Script.html  
scripts/Snow White and the Huntsman Script.html  
scripts/So I Married an Axe Murderer Script.html  
scripts/Social Network, The Script.html  
scripts/Solaris Script.html  
scripts/Soldier Script.html  
scripts/Someone To Watch Over Me Script.html  
scripts/Something's Gotta Give Script.html  
scripts/Source Code Script.html  
scripts/South Park Script.html  
scripts/Spanglish Script.html  
scripts/Spare Me Script.html  
scripts/Spartan Script.html  
scripts/Speed Script.html  
scripts/Speed Racer Script.html  
scripts/Sphere Script.html  
scripts/Spider-Man Script.html  
scripts/St. Elmo's Fire Script.html  
scripts/Star Trek Script.html  
scripts/Star Trek II: The Wrath of Khan Script.html  
scripts/Star Trek: First Contact Script.html  
scripts/Star Trek: Generations Script.html  
scripts/Star Trek: Nemesis Script.html  
scripts/Star Trek: The Motion Picture Script.html

scripts/Star Wars: A New Hope Script.html  
scripts/Star Wars: Attack of the Clones Script.html  
scripts/Star Wars: Return of the Jedi Script.html  
scripts/Star Wars: Revenge of the Sith Script.html  
scripts/Star Wars: The Empire Strikes Back Script.html  
scripts/Star Wars: The Force Awakens Script.html  
scripts/Star Wars: The Phantom Menace Script.html  
scripts/Starman Script.html  
scripts/Starship Troopers Script.html  
scripts/State and Main Script.html  
scripts/Station West Script.html  
scripts/Stepmom Script.html  
scripts/Sting, The Script.html  
scripts/Stir of Echoes Script.html  
scripts/Storytelling Script.html  
scripts/Strange Days Script.html  
scripts/Strangers on a Train Script.html  
scripts/Stuntman, The Script.html  
scripts/Sugar Script.html  
scripts/Sugar and Spice Script.html  
scripts/Sunset Blvd. Script.html  
scripts/Sunshine Cleaning Script.html  
scripts/Super 8 Script.html  
scripts/Superbad Script.html  
scripts/Superfights Script.html  
scripts/Supergirl Script.html  
scripts/Surfer King, The Script.html  
scripts/Surrogates Script.html  
scripts/Suspect Zero Script.html  
scripts/Sweeney Todd: The Demon Barber of Fleet Street Script.html  
scripts/Sweet Hereafter, The Script.html  
scripts/Sweet Smell of Success Script.html  
scripts/Swingers Script.html  
scripts/Swordfish Script.html  
scripts/Synecdoche, New York Script.html  
scripts/Syriana Script.html  
scripts/Take Shelter Script.html  
scripts/Taking Lives Script.html  
scripts/Taking of Pelham One Two Three, The Script.html  
scripts/Taking Sides Script.html  
scripts/Talented Mr. Ripley, The Script.html  
scripts/Tall in the Saddle Script.html  
scripts/Tamara Drewe Script.html  
scripts/Taxi Driver Script.html  
scripts/Ted Script.html  
scripts/Terminator Script.html  
scripts/Terminator 2: Judgement Day Script.html  
scripts/Terminator Salvation Script.html

scripts/The Rage: Carrie 2 Script.html  
scripts/Thelma & Louise Script.html  
scripts/There's Something About Mary Script.html  
scripts/They Script.html  
scripts/Thing, The Script.html  
scripts/Things My Father Never Taught Me, The Script.html  
scripts/Thirteen Days Script.html  
scripts/This Boy's Life Script.html  
scripts/This is 40 Script.html  
scripts/Thor Script.html  
scripts/Three Kings Script.html  
scripts/Three Kings (Spoils of War) Script.html  
scripts/Three Men and a Baby Script.html  
scripts/Three Musketeers, The Script.html  
scripts/Thunderbirds Script.html  
scripts/Thunderheart Script.html  
scripts/Ticker Script.html  
scripts/Timber Falls Script.html  
scripts/Time Machine, The Script.html  
scripts/Tin Cup Script.html  
scripts/Tin Men Script.html  
scripts/Tinker Tailor Soldier Spy Script.html  
scripts/Titanic Script.html  
scripts/TMNT Script.html  
scripts/To Sleep with Anger Script.html  
scripts/Tombstone Script.html  
scripts/Tomorrow Never Dies Script.html  
scripts/Top Gun Script.html  
scripts/Total Recall Script.html  
scripts/Tourist, The Script.html  
scripts/Toy Story Script.html  
scripts/Traffic Script.html  
scripts/Training Day Script.html  
scripts/Trainspotting Script.html  
scripts/Transformers: The Movie Script.html  
scripts/Tremors Script.html  
scripts/Tristan and Isolde Script.html  
scripts/TRON Script.html  
scripts/TRON: Legacy Script.html  
scripts/Tropic Thunder Script.html  
scripts/True Grit Script.html  
scripts/True Lies Script.html  
scripts/True Romance Script.html  
scripts/Truman Show, The Script.html  
scripts/Twilight Script.html  
scripts/Twilight: New Moon Script.html  
scripts/Twin Peaks Script.html  
scripts/Twins Script.html



scripts/Two For The Money Script.html  
scripts/U Turn Script.html  
scripts/Ugly Truth, The Script.html  
scripts/Un Singe en Hiver Script.html  
scripts/Unbreakable Script.html  
scripts/Under Fire Script.html  
scripts/Unknown Script.html  
scripts/Up Script.html  
scripts/Up in the Air Script.html  
scripts/Usual Suspects, The Script.html  
scripts/V for Vendetta Script.html  
scripts/Valkyrie Script.html  
scripts/Vanilla Sky Script.html  
scripts/Verdict, The Script.html  
scripts/Vertigo Script.html  
scripts/Very Bad Things Script.html  
scripts/Village, The Script.html  
scripts/Virtuosity Script.html  
scripts/Visitor, The Script.html  
scripts/Wag the Dog Script.html  
scripts/Walk to Remember, A Script.html  
scripts/Walking Tall Script.html  
scripts/Wall Street Script.html  
scripts/Wall Street: Money Never Sleeps Script.html  
scripts/Wall-E Script.html  
scripts/Wanted Script.html  
scripts/War Horse Script.html  
scripts/War of the Worlds Script.html  
scripts/Warm Springs Script.html  
scripts/Warrior Script.html  
scripts/Watchmen Script.html  
scripts/Water for Elephants Script.html  
scripts/Way Back, The Script.html  
scripts/We Own the Night Script.html  
scripts/What About Bob? Script.html  
scripts/What Lies Beneath Script.html  
scripts/When a Stranger Calls Script.html  
scripts/When Harry Met Sally Script.html  
scripts/While She Was Out Script.html  
scripts/Whistleblower, The Script.html  
scripts/White Christmas Script.html  
scripts/White Jazz Script.html  
scripts/White Ribbon, The Script.html  
scripts/White Squall Script.html  
scripts/Whiteout Script.html  
scripts/Who Framed Roger Rabbit? Script.html  
scripts/Who's Your Daddy Script.html  
scripts/Wild At Heart Script.html

```

scripts/Wild Bunch, The Script.html
scripts/Wild Hogs Script.html
scripts/Wild Things Script.html
scripts/Wild Things: Diamonds in the Rough Script.html
scripts/Wild Wild West Script.html
scripts/Willow Script.html
scripts/Win Win Script.html
scripts/Wind Chill Script.html
scripts/Withnail and I Script.html
scripts/Witness Script.html
scripts/Wizard of Oz, The Script.html
scripts/Wolf of Wall Street, The Script.html
scripts/Wonder Boys Script.html
scripts/Woodsman, The Script.html
scripts/World is not Enough, The Script.html
scripts/Wrestler, The Script.html
scripts/X-Files: Fight the Future, The Script.html
scripts/X-Men Script.html
scripts/X-Men Origins: Wolverine Script.html
scripts/xXx Script.html
scripts/Year One Script.html
scripts/Yes Man Script.html
scripts/You Can Count On Me Script.html
scripts/You've Got Mail Script.html
scripts/Youth in Revolt Script.html
scripts/Zero Dark Thirty Script.html
scripts/Zerophilia Script.html

```

```
In [9]: all_scripts.keys()
```

```
Out[9]: dict_keys(['10 Things I Hate About You', '12', '12 and Holding', '12 Monkeys', '12 Year
```

```
In [10]: len(all_scripts.keys())
```

```
Out[10]: 1121
```

### 0.3 Graphing Function

Below is the code we used to create our graphing helper function. This is needed in order to find eigenvector centrality and Gini coefficients at the end.

```
In [13]: import numpy as np
import networkx as nx
from lxml import etree
import itertools
```

```

from datascience import *
import matplotlib.pyplot as plt
from nltk.util import ngrams
import re

def make_graph(c_dict):

    # setup graph object
    G = nx.Graph()

    # add nodes with attributes of scenes
    for c in c_dict.keys():
        G.add_node(
            c,
            scenes=c_dict[c]
        )

    # make edges
    for (node1, data1), (node2, data2) in itertools.combinations(G.nodes(data=True), 2):

        # count scenes together by getting union of their sets
        scenes_together = len(set(data1['scenes']) & set(data2['scenes']))

        if scenes_together:
            # add more weight for more scenes together
            G.add_edge(node1, node2, weight=scenes_together)

    return G

```

## 0.4 Gini Coefficient Function

This function takes in an array and outputs the Gini coefficient. It was taken from: <https://github.com/oliviaguest/gini>

```

In [14]: def gini(array):
    array = np.sort(array) # values must be sorted
    index = np.arange(1, array.shape[0] + 1) # index per array element
    n = array.shape[0] # number of array elements
    return ((np.sum((2 * index - n - 1) * array)) / (n * np.sum(array))) #Gini coeff

```

## 0.5 Getting the Gini's for Every Movie

For each movie, the loop below creates a correctly indexed scene list, gathers the text from every scene, and creates a cast dictionary with a key for every character and values for all the scenes that a certain character is in. It works for 909 of the movies in our corpus (we had trouble getting the code to work for the rest). This loop also keeps track of the names of all the 909 movies we do this for, so later we can make a table with film name and Gini coefficient.

```

In [15]: titles = []
        gini_array = []
        good_movie_array = []
        bad_movie_array = []
        for i in all_scripts.keys():
            try:
                #print(i)
                title = i
                good_movie_array = np.append(good_movie_array, i)
                scene_index_list = []
                count = 0
                for scene in set(all_scripts[i]['scenes']):
                    indices = [m.start() for m in re.finditer(scene, all_scripts[i]['text'])]
                    scene_index_list.extend(indices)
                scene_texts = []
                for n in ngrams(sorted(scene_index_list), 2):
                    scene_texts.append(all_scripts[i]['text'][n[0]:n[1]])
                cast_dict = {}
                for c in all_scripts[i]['cast']:
                    cast_dict[c] = []
                    for i, scene in enumerate(scene_texts):
                        if scene.count(c) > 0:
                            cast_dict[c].append(i)

                G = make_graph(cast_dict)

                network_tab = Table()
                network_tab.append_column(label="Characters", values=[c for c in sorted(cast_dict.keys())])
                dc = [x[1] for x in sorted(nx.degree_centrality(G).items(), key=lambda x: x[1])]
                network_tab.append_column(label="Degree Centrality", values=dc)
                bc = [x[1] for x in sorted(nx.betweenness_centrality(G).items(), key=lambda x: x[1])]
                network_tab.append_column(label="Betweenness Centrality", values=bc)
                ec = [x[1] for x in sorted(nx.eigenvector_centrality(G).items(), key=lambda x: x[1])]
                network_tab.append_column(label="Eigenvector Centrality", values=ec)
                network_tab.append_column(label="Title", values=title)
                gini_array = np.append(gini_array, gini(network_tab.column('Eigenvector Centrality')))
                titles = np.append(titles, title)
            except:
                bad_movie_array = np.append(bad_movie_array, i)
        pass

```

```

/srv/app/venv/lib/python3.6/site-packages/ipykernel_launcher.py:16: DeprecationWarning: generate_new_instance()
app.launch_new_instance()
/srv/app/venv/lib/python3.6/site-packages/ipykernel_launcher.py:5: RuntimeWarning: invalid value encountered in divide
"""

```

```

In [16]: len(gini_array)

```

```
Out[16]: 909
```

```
In [41]: len(titles)
```

```
Out[41]: 909
```

```
In [42]: movie_script_title = []
         for i in titles:
             thing = str(i) + ' Script'
             movie_script_title = np.append(movie_script_title, thing)

         len(movie_script_title)
```

```
Out[42]: 909
```

```
In [43]: gini_table = Table().with_column("Title", movie_script_title).with_column('Gini', gini)
         gini_table.show(5)
```

```
<IPython.core.display.HTML object>
```

Now we have a table with Gini coefficients and movie script names! We want this to be included in our original metadata table, so we join the two tables.

```
In [44]: joined_table = data.join('title', gini_table, "Title")
         joined_table.show(5)
```

```
<IPython.core.display.HTML object>
```

```
In [45]: final_table = joined_table.sort('Gini', descending=True).exclude(np.arange(0,20))
```

Here is a final table with the Gini coefficients sorted in descending order. We can see that the movie Swordfish is the most inequal in terms of character network.

```
In [46]: final_table.show(5)
```

```
<IPython.core.display.HTML object>
```

## 0.6 Working with the Genre

Now we want to test Gini coefficient with genre. So below, we've created an array of all the genres included in the IMsDb. Then, we created a table with the average Gini coefficient for each of these genres.

```
In [47]: genres = make_array('Action', 'Adventure', 'Animation', 'Comedy', 'Crime', 'Drama', 'Fantasy', 'Horror', 'Mystery', 'Romance', 'Sci-Fi', 'Thriller', 'War', 'Western')
```

```

In [48]: genre_ginis = []
        for i in genres:
            table = final_table.where('Genres', are.containing(i))
            ginis = table.column('Gini')
            new_gini = gini(ginis)
            genre_ginis = np.append(genre_ginis, new_gini)

In [49]: genre_gini_averages = []
        for i in genres:
            table = final_table.where('Genres', are.containing(i))
            ginis = table.column('Gini')
            average = np.mean(ginis)
            genre_gini_averages = np.append(genre_gini_averages, average)

In [50]: final_table_two = Table().with_column('Genres', genres).with_column('Variation', genre_gini_averages)

In [51]: final_table_two.show()

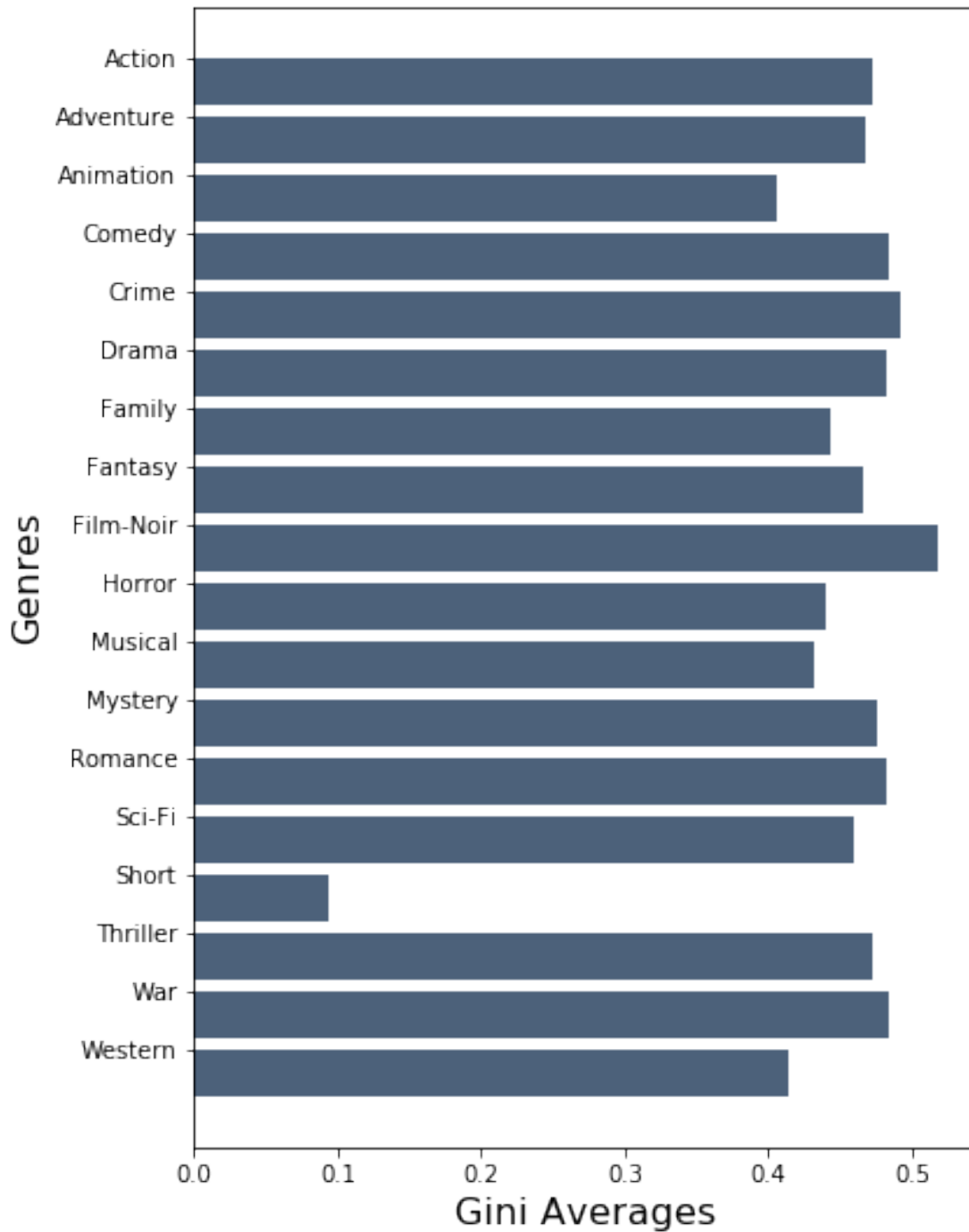
<IPython.core.display.HTML object>

In [52]: import matplotlib.pyplot as plt

        %matplotlib inline

        final_table_two.barh("Genres", "Gini Averages")

```



## 0.7 Gini vs. Time

Next, we wanted to see what the Gini coefficients look like against time. Below is how we edited the given script dates to make them useable, and how we found the average Gini coefficient for each year.

```

In [70]: new_dates = []
         for i in final_table.column('Script Date'):
             if ":" in i:
                 new_dates = np.append(new_dates, i.replace(":", ""))
             else:
                 new_dates = np.append(new_dates, i)

In [71]: new_dates

Out[71]: array(['January 2001', 'nan', 'March 1975', 'nan', 'April 1985',
                'February 1998', 'nan', ' 1997', 'September 2000', 'May 2003',
                'May 1998', 'nan', 'March 1939', 'January 1976', 'nan', 'June 1997',
                'February 1989', 'nan', 'May 2009', 'March 2002', 'nan',
                'March 2000', 'April 2009', 'June 1998', 'nan', 'March 1996', 'nan',
                'nan', 'nan', ' 1986', 'May 2012', 'February 2004', 'nan',
                'April 2010', 'nan', 'May 1949', 'nan', 'nan', 'June 2002',
                'May 1997', 'nan', 'June 1979', 'nan', 'October 2004', 'nan', 'nan',
                'nan', 'nan', 'nan', 'nan', 'November 1986', 'May 2003',
                'March 1999', ' 1982', 'July 1985', 'February 2002', 'nan',
                'November 1998', 'October 1995', 'February 1972', 'December 1975',
                'March 2004', ' 1992', 'nan', 'nan', 'October 1999', 'March 1998',
                'nan', 'March 1988', 'June 2008', 'nan', 'June 1994',
                'December 2001', 'nan', 'nan', 'October 1996', 'June 2007', 'nan',
                'March 1962', 'July 1991', 'nan', 'nan', 'January 1992', ' 1975',
                'nan', 'July 2009', 'March 2004', 'January 1979', 'August 2003',
                'nan', 'January 1992', 'February 1994', 'August 1997', ' 1979',
                'March 2007', 'March 2007', 'July 1991', 'February 2008',
                'October 2008', 'February 2009', 'nan', 'nan', 'nan', 'nan', 'nan',
                'September 2007', ' 1991', 'October 2007', 'nan', 'nan',
                'December 1981', 'December 1976', 'July 1992', 'nan', 'June 1995',
                'April 1991', 'August 2006', 'nan', 'October 1987', 'March 2013',
                'nan', 'September 2004', 'July 1998', 'July 1993', 'December 2001',
                'September 2008', 'nan', 'nan', 'nan', 'nan', 'nan', 'nan',
                'May 1993', 'September 2007', 'June 1998', 'nan', 'September 1997',
                'nan', 'nan', 'June 1990', 'nan', 'January 2004', 'nan',
                'October 2007', 'nan', 'February 1990', 'nan', 'nan', 'nan',
                ' 1969', 'November 1993', 'August 1995', 'February 2003', 'nan',
                'August 2004', 'nan', 'February 1998', 'October 1997',
                'January 2001', 'nan', 'nan', 'November 2007', 'February 1998',
                'September 1990', 'September 2007', 'nan', 'February 1982', 'nan',
                'nan', 'November 2000', 'nan', 'September 2007', 'September 1990',
                ' 1999', 'nan', 'July 2006', 'July 1990', 'July 1996', 'nan',
                'March 1994', 'November 1997', 'nan', 'September 1973', 'nan',
                'September 2010', 'March 2008', 'September 2009', 'August 1988',
                'nan', 'nan', 'nan', 'March 1998', 'August 2001', 'December 2009',
                'July 2007', 'nan', 'nan', 'nan', 'nan', 'April 2008',
                'February 1999', 'January 2008', 'April 2000', 'nan', ' 1997',
                'nan', 'December 2011', 'October 1996', 'February 1951',

```



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 'October 1999', 'March 1967', 'nan', 'nan', 'May 2012',  
 'February 1981', 'nan', 'June 2006', ' ' 1993', 'nan', 'nan', 'nan',  
 'nan', 'nan', 'nan', ' ' 1997', 'November 2005', 'August 1994', 'nan',  
 'December 1998', 'February 2007', 'February 1992', 'nan', 'nan',  
 'September 1990', 'March 2009', 'nan', 'nan', 'February 2007',  
 'August 2009', 'May 2009', 'October 2007', 'nan', 'nan', 'nan',  
 ' ' 1998', 'August 2011', 'nan', 'September 2007', 'nan', 'nan',  
 'nan', 'nan', 'March 1995', 'March 2008', 'nan', 'nan', ' ' 1984',  
 'November 2007', 'December 1994', 'May 2004', 'nan',  
 'February 2008', 'nan', 'August 2008', 'nan', 'January 1997',  
 'May 2007', 'nan', 'nan', 'nan', 'July 1990', 'December 1983',  
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 'nan', 'nan', 'nan', 'August 2007', 'November 2007', 'July 2006',  
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 'August 1999', 'nan', 'nan', 'July 2009', 'November 2006',  
 'July 1996', 'nan', 'November 1986', 'nan', 'September 2011',  
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 'nan', 'July 2000', 'February 2010', ' ' 1987', 'October 2005',  
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 'April 2004', 'February 2002', 'May 2001', 'September 2007',  
 'February 2005', ' ' 1987', ' ' 1991', 'December 2006', 'nan',  
 'February 2002', 'nan', 'January 1997', 'March 1997', 'nan',  
 'July 2012', 'June 1991', 'May 2008', 'nan', 'nan', 'February 2007',  
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'nan', '1998', 'June 1997', '1995', 'nan', 'nan', 'July 2006',  
'June 2009', '1991', 'March 1983', 'nan', 'nan', 'nan', 'nan',  
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'December 2000', 'nan', 'January 1991', 'December 2006',  
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'1997', 'June 2006', 'nan', 'nan', 'April 2005', 'nan', 'nan',  
'nan', 'November 1990', 'nan', 'nan', 'October 2009', 'May 1998',  
'nan', 'nan', 'March 1997', 'nan', 'nan', 'nan', 'February 1996',  
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'March 2007', 'nan', 'September 1998', 'nan', 'July 1995',  
'October 1995', 'October 2009', 'nan', '1978', '1997', 'nan',  
'nan', 'nan', 'August 2009', '1996', 'May 2011', 'nan',  
'December 1995', 'March 1993', 'June 1998', 'nan', 'October 2003',  
'October 2009', 'May 1985', 'August 1995', 'January 1999',  
'February 1993', 'nan', 'March 1995', 'June 1947', 'February 1988',  
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'nan', 'February 2009', 'July 1953', 'January 2002', 'October 1990',  
'June 1997', 'December 1992', '1996', 'December 2011', 'May 2011',  
'June 1986', 'September 1995', 'November 1992', 'April 2004', 'nan',  
'nan', 'nan', 'June 2007', 'nan', 'April 2004', 'nan', 'July 2008',  
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'nan', '1981', 'February 1998', 'January 1997', 'March 2000',  
'April 1985', 'nan', 'November 2011', 'November 1990', 'nan',  
'November 2009', 'December 1983', 'April 2009', 'nan', '1997',  
'nan', 'nan', 'nan', 'June 1994', 'June 2008', 'February 2000',  
'March 1987', 'October 1988', 'nan', 'nan', 'June 1990',  
'September 1999', 'June 2008', 'nan', 'nan', 'February 2005',  
'November 1995', 'May 2009', 'October 2007', 'nan', 'nan', 'nan',  
'November 1997', 'nan', 'nan', 'October 2007', 'nan', 'August 1985',  
'May 2012', 'nan', 'nan', 'nan', 'April 1999', 'nan', '1989',  
'March 2008', 'May 2004', 'March 1967', 'July 2009', 'nan',

```

'June 2003', 'November 2009', 'April 1999', 'nan', 'nan',
'September 1991', ' 1997', 'nan', 'March 1997', 'May 2004', 'nan',
'October 1998', 'March 1979', 'January 2010', 'November 2015',
'May 1994', 'nan', 'nan', 'nan', 'nan', 'nan', 'nan',
'September 1998', 'October 2001', 'April 1992', 'February 2003',
'nan', 'October 2007', 'January 2012', 'nan', 'September 1984',
'nan', 'nan', 'August 1991', 'May 1997', 'December 1986', 'nan',
'nan', 'nan', 'nan', 'nan', 'nan', 'October 2000', 'nan', 'nan',
'December 2012', 'September 2007', 'September 1996', 'nan', 'nan',
' 1985', 'March 1994', 'January 2007', 'March 1998',
'February 2006', 'nan', 'nan', 'nan', 'February 1999', 'nan',
'January 1992', 'nan', 'January 1996', 'nan', 'October 1994',
'January 1999', 'March 2004', 'nan', 'April 2009', 'nan', 'nan',
'nan', 'December 1994', 'nan', ' 1981', 'nan', 'nan', 'nan', 'nan',
'January 2001', 'April 1991', 'January 1989', 'January 1991',
'January 1987', 'December 2012', ' 1991', 'nan', 'July 1992', 'nan',
'July 1980', 'nan', 'March 2000', 'November 2002', 'nan',
'June 1977', 'nan', 'March 1981', 'August 2006', 'June 2007',
'October 1997', 'October 2009', 'nan', 'nan', 'nan', 'January 2001',
'August 1991', 'August 1991', 'nan', 'January 2004', 'May 2014',
'September 1987', 'nan', ' 1986', ' 2000', 'April 1981', 'nan',
'May 2003', 'nan', 'June 1974', 'nan', 'nan', 'nan', 'January 1991',
'nan', ' 1996', ' 1991', 'nan', 'May 1988', 'nan', 'nan',
'June 1978', 'nan', ' 1998', 'nan', 'nan'],
dtype='<U32')

```

```

In [72]: better_dates = []
for i in new_dates:
    if "January " in i:
        better_dates = np.append(better_dates, i.replace('January ', ""))
    elif "February " in i:
        better_dates = np.append(better_dates, i.replace("February ", ""))
    elif "March " in i:
        better_dates = np.append(better_dates, i.replace("March ", ""))
    elif "April " in i:
        better_dates = np.append(better_dates, i.replace("April ", ""))
    elif "May " in i:
        better_dates = np.append(better_dates, i.replace("May ", ""))
    elif "June " in i:
        better_dates = np.append(better_dates, i.replace("June ", ""))
    elif "July " in i:
        better_dates = np.append(better_dates, i.replace("July ", ""))
    elif "August " in i:
        better_dates = np.append(better_dates, i.replace("August ", ""))
    elif "September " in i:
        better_dates = np.append(better_dates, i.replace("September ", ""))
    elif "October " in i:
        better_dates = np.append(better_dates, i.replace("October ", ""))

```

```

elif "November " in i:
    better_dates = np.append(better_dates, i.replace("November ", ""))
elif "December " in i:
    better_dates = np.append(better_dates, i.replace("December ", ""))
else:
    better_dates = np.append(better_dates, i)

```

```

In [73]: corrected_dates = final_table.with_column("better_dates", better_dates)
almost_finished = corrected_dates.where('better_dates', are.not_containing('nan'))
int_dates = almost_finished.apply(int, 'better_dates')
year_table = almost_finished.with_column('Year', int_dates).select('title', 'Genres',
year_table.show(5)

```

<IPython.core.display.HTML object>

```

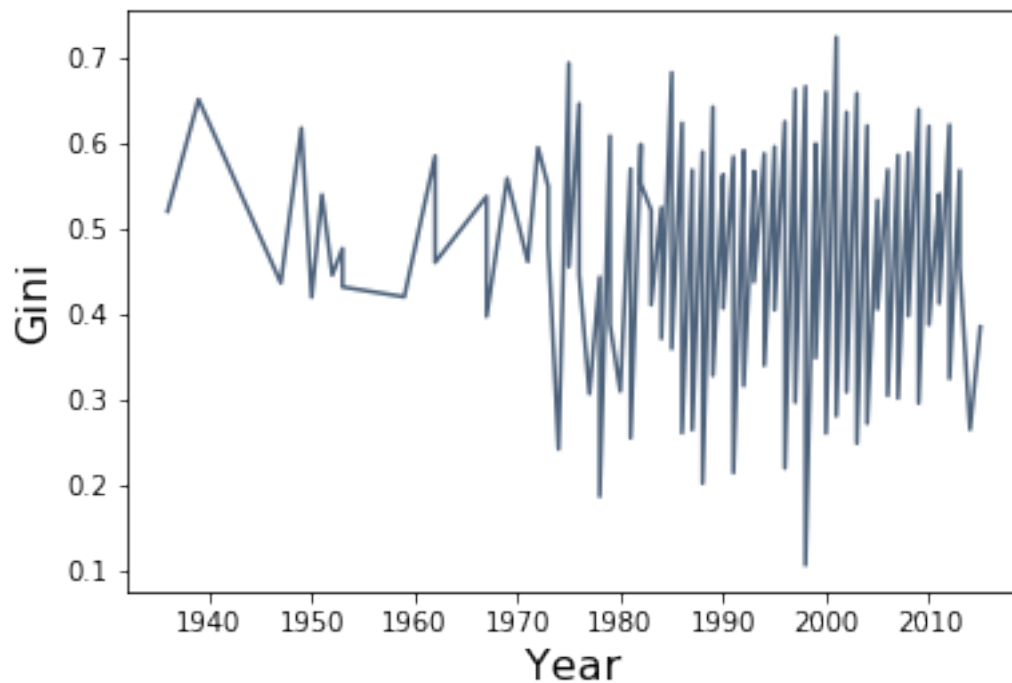
In [74]: better_year = year_table.sort('Year')

```

```

In [75]: better_year.plot('Year', "Gini")

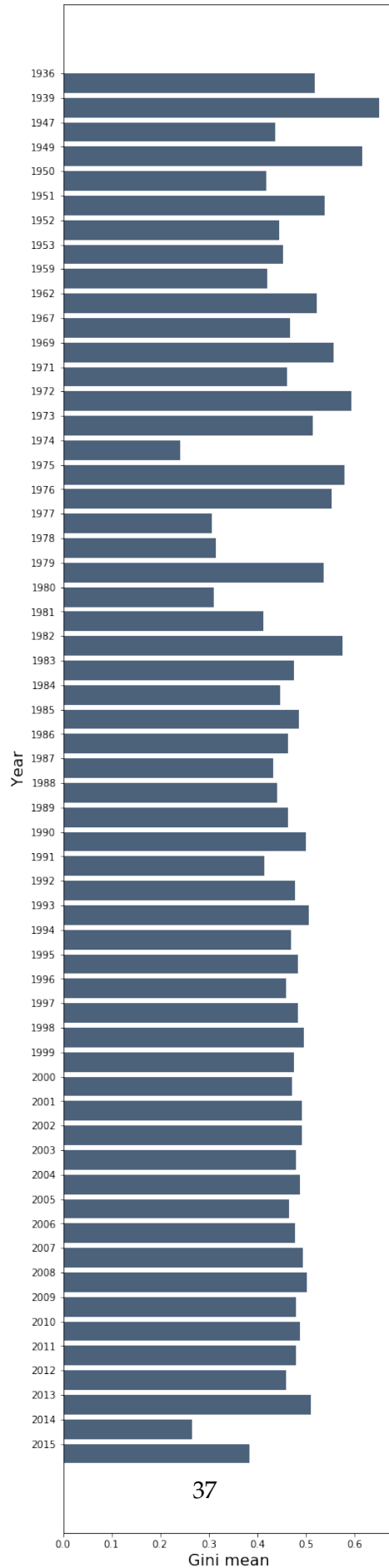
```



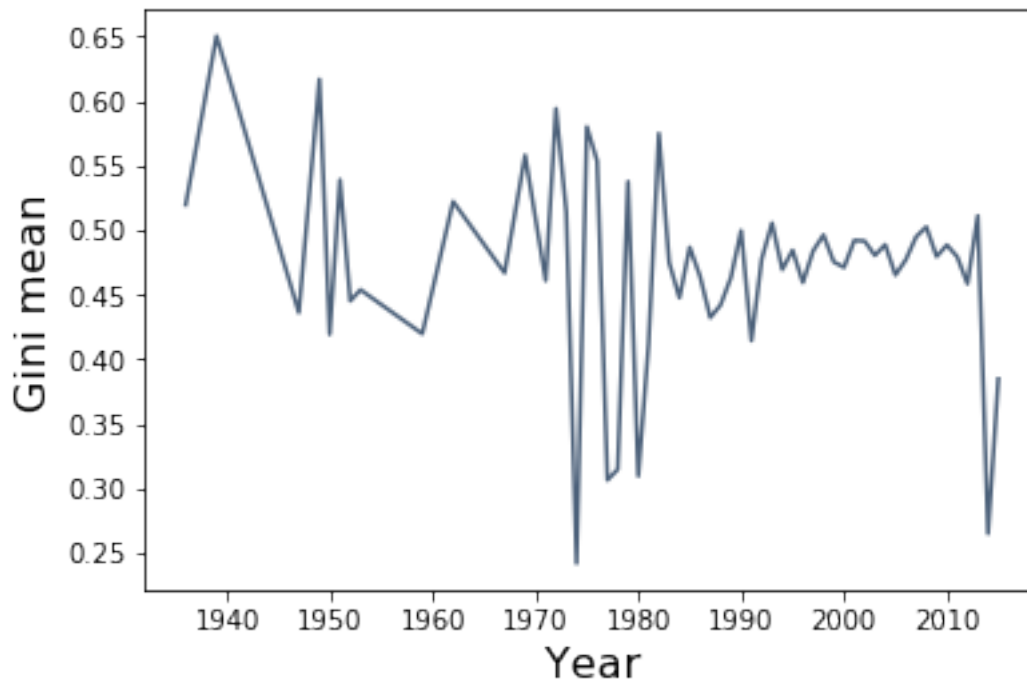
```

In [76]: year_avg_gini = better_year.group("Year", collect=np.mean).select('Year', "Gini mean")
year_avg_gini.barh("Year", "Gini mean")

```



```
In [77]: year_avg_gini.plot('Year')
```



## 0.8 Average Gini for Decade

Below, we broke the average Gini coefficients into decade long chunks, as the year long chunks above weren't very informative.

```
In [78]: int_and_str_years = almost_finished.with_column('Year', int_dates)
         decades = ['193', '194', '195', '196', '197', '198', '199', '200', '201']
         gini_by_decade = []

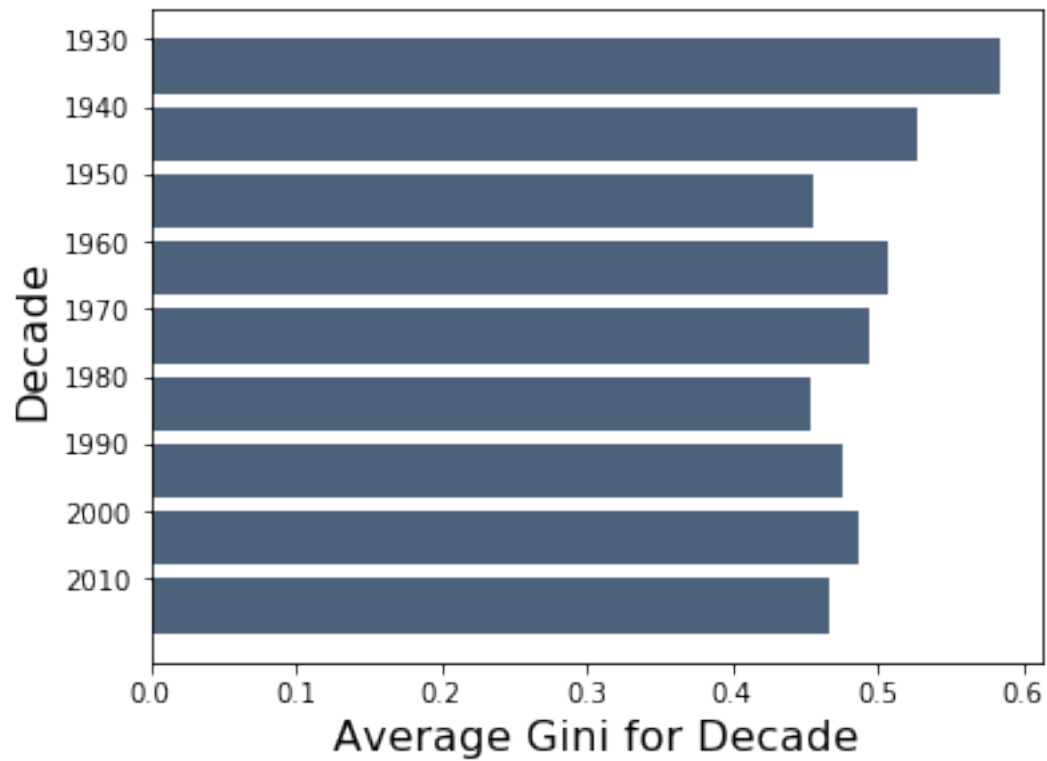
         for i in decades:
             avg_gini = np.mean(int_and_str_years.where('better dates', are.containing(i)).column('Gini mean'))
             gini_by_decade = np.append(gini_by_decade, avg_gini)

In [79]: pretty_decades = [1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010]
         decade_table = Table().with_column("Decade", pretty_decades).with_column("Average Gini", gini_by_decade)
         decade_table
```

```
Out[79]: Decade | Average Gini for Decade
         1930   | 0.58501
         1940   | 0.52655
```

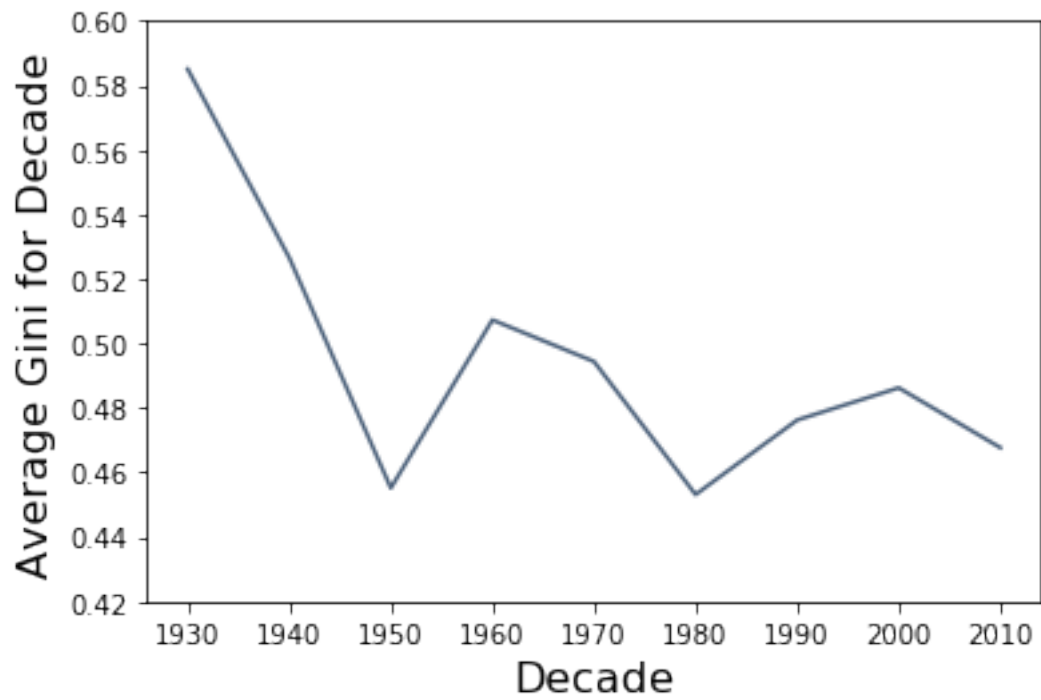
1950		0.455203
1960		0.507279
1970		0.494391
1980		0.453156
1990		0.476261
2000		0.486237
2010		0.467694

```
In [80]: decade_table.barh('Decade')
```



```
In [81]: from pylab import *
         decade_table.plot('Decade')
         ylim([0.42,0.6])
```

```
Out[81]: (0.42, 0.6)
```



This was the final information/visualization we used in our study! Our findings and interpretations can be read in each of our final essays.