Analysis of The Office

```
In [2]:
            import pandas as pd
            office data = pd.read csv("the office lines scripts.csv")
 In [3]:
In [15]:
            office data.shape
            (59909, 7)
Out[15]:
 In [5]:
            office_data.head()
 Out[5]:
               id season episode
                                                                                                 deleted
                                      scene
                                                                            line_text
                                                                                       speaker
                                                 All right Jim. Your quarterlies look very
            0
                                           1
                                                                                       Michael
                                                                                                   False
                                                                              good...
                                                  Oh, I told you. I couldn't close it. So...
                                                                                           Jim
                                                                                                   False
                                                      So you've come to the master for
            2
                3
                         1
                                   1
                                           1
                                                                                       Michael
                                                                                                   False
                                                                       guidance? Is ...
                                               Actually, you called me in here, but yeah.
                                                                                                   False
                                                                                           Jim
                                                 All right. Well, let me show you how it's
            4
                5
                                                                                       Michael
                                                                                                   False
```

How many characters are there? What are their names?

```
In [84]: total_number_of_line = len(office_data.speaker)
    character_names = list(office_data.speaker.apply(lambda x: x.lower().capital
    num_of_characters = len(character_names)
    print(f"There are {num_of_characters} characters, whose names are {character}
```

There are 778 characters, whose names are ['Michael', 'Jim', 'Pam', 'Dwigh t', 'Jan', 'Michel', 'Todd packer', 'Phyllis', 'Stanley', 'Oscar', 'Angela', 'Kevin', 'Ryan', 'Man', 'Roy', 'Documentary crew member', 'Mr. brown', 'Tob y', 'Kelly', 'Meredith', 'Travel agent', 'Man on phone', 'Everybody', 'Lonn , 'Darryl', 'Teammates', 'Michael and dwight', 'Warehouse worker', 'Madg e', 'Worker', 'Packer', 'Katy', 'Guy at bar', 'Other guy at bar', 'Pam and j im', 'Employee', "Chili's employee", 'Waitress', 'Manager', "Kevin's compute
r", 'Warehouse guy', 'Warehouse guys', 'Video', 'Man in video', 'Actor', 'Re dheaded actress', "Mr. o'malley", 'Albiny', "Pam's mom", 'Carol', 'Bill', 'E veryone', 'Crowd', 'Song', 'Dwight and michael', 'Sherri', 'Creed', 'Devon', 'Children', 'Kid', 'Vance refrigeration worker #1', 'Vance refrigeration wor ker #2', 'Hank the security guard', 'Ira', "Ryan's voicemail", 'Master', 'Al yssa', 'Christian', 'Hostess', 'Michael and christian', 'Sadiq (it guy)', 'M ark', 'Improv teacher', 'Mary-beth', 'Girl acting pregnant', 'Actress', 'Mic hael and jim', 'Kevin & oscar', 'All', 'Liquor store clerk', 'Bob vance', 'P hyllis, meredith, michael, kevin', 'Captain jack', 'Brenda', 'Darryl and kat y', 'Jim and pam', 'Billy merchant', 'Doctor', 'Lab tech', 'Dana', "Hooter's girls", 'Phylis', 'Gil', 'Pam and others', 'Ed', 'Todd', "Jim's voicemail", 'Women', 'Guy', 'Men', 'Group chant', 'All the men', 'Dwight and roy', 'Deli very man', 'Craig', 'Josh', 'David', 'Dan', 'Receptionist', 'Overhead', 'Spe aker', 'Jim and dwight', 'Melissa', 'Sasha', 'Abby', 'Jake', 'The kids', 'Ki ds', 'Miss trudy', 'Edward r. meow', 'Chet', 'Young michael', 'Delivery woma n', 'Delivery boy', 'Office staff', 'Store employee', 'Pam/jim', 'Linda', 'H ank', 'Sheriff', 'I.d. photographer', 'Photographer', 'Anglea', 'Female work er', "Billy's girlfriend", 'Billy', 'Dealer', 'Bob', "Meredith's vet", 'And y', 'Karen', 'Jerome bettis', 'Ted', 'Waiter', 'Jim, josh, and dwight', 'Eva n', 'Alan', 'Ryan and others', 'Hannah', 'Announcer', 'Pretzel guy', 'Cousin mose', 'Tony', 'Server', 'Girls', "Kelly's mom", "Kelly's father", 'Young man', 'Andy and jim', 'Mrs. kapoor', 'Mr. kapoor', 'M ichael', 'Dwight:', 'Mar tin', 'Male voice', 'Michael & dwight', 'Andy & michael', 'Chef', 'Woman at bar', 'Cindy', 'Second cindy', 'Other waitress', 'Andy and michael', 'Both', 'Someone', 'Harvey', 'Buyer', 'Kenny', 'Julius', 'Phone', 'Staples guy', 'La dy', 'Paris', 'Marcy', 'Ben franklin', 'Elizabeth', 'Priest', 'Uncle al', 'R andy', 'Unknown', 'College student', 'Business student #1', 'Business student #2', 'Business student #3', 'Woman', 'Artist', 'Student 1', 'Student 2', 'Student 3', 'Rachel', 'Dan gore', 'Bartender', 'Child', 'Hunter', 'Darry', 'Micheal', 'Larry', 'Chad lite', 'Jamie', 'Barbara', 'School official', 'Bar bara allen', 'Spanish teacher', 'Denise', 'Group', 'It tech guy', 'Nurse', 'Intern', 'Pediatrician', 'Robert dunder', 'Amy', 'Gps', 'Larry myers', 'Exclient', 'Voice of thomas dean', 'Sandy', 'Dunmiff/sys', 'Dwightkschrute', 'Tech guy', 'Angels', 'Pizza guy', 'Voice #1 on phone', 'Voice #2 on phone', 'Micahel', 'Michae', 'Nick', 'Mose', 'Co-worker 1', 'Stanely', 'Micael', 'Vi kram', 'Co-worker 2', 'Co-worker 3', 'Mr. figaro', 'Oscar and stanley', 'Ad guy 1', 'Ad guy 2', 'David wallace', 'Andy, creed, kevin, kelly, darryl', 'A ndy, creed, kevin, kelly', "Michael's ad", 'Rolando', 'Ben', 'Security guar d', 'Lester', 'Diane kelly', 'Diane', 'Deposition reporter', 'Council', "Hun ter's cd", 'Officer 1', 'Officer 2', 'Officer', 'Neighbor', "Wendy's phone o perator", 'Margaret', 'Coffee shop worker', 'Jan [on phone]', 'W.b. jones', 'Paul faust', 'Bill cress', 'Paul', 'Michael/dwight', 'Troy', 'Girl in clu b', 'Tall girl #1', 'All girls', 'Tall girl #2', 'Girl in 2nd club', 'Cleani ng lady', 'Michael and darryl', 'Phil maguire', 'Phil', 'Justin', 'Angela an d dwight', 'Maguire', 'Woman on mic', 'Graphics guy', 'Brad', 'Air force rec ruiter', 'Holly', 'Woman over speakerphone', 'Vance refrigeration guy', 'Hol y', 'Co-workers', 'Ronnie', 'Professor', 'Friend', 'Jim9334 [screen name]', 'Receptionitis15 [screen name]', 'Jim9334', 'Receptionitis15', 'Michael & ho lly', 'Dight', 'Kendall', 'Michael [on phone]', 'Pam [on phone]', 'Hank [the security guard]', 'Guy in audience', 'Michael and holly', 'Michael, holly, a nd darryl', 'Tom', 'Pete', 'Holly & darryl', 'Holly & michael', 'Mother', 'A lex', 'Customer', 'Kevin & andy', 'Stanley & phyllis', 'Stewardess', 'Beth', 'Concierge', 'Marie', 'Guy at table', 'Concierge marie', 'Client', 'Dacvid w alalce', 'David wallcve', 'Dacvid wallace', 'Leo', 'Police officer 1', 'Poli ce officer 2', 'Guy buying doll', 'Rehab nurse', 'Everyone watching', 'Entir e prince family', 'Prince grandfather', 'Entire office', 'Prince', 'Prince g randdaughter', 'Prince grandmother', 'Prince son', 'Phyllis and creed', 'Law

yer', 'Cpr trainer', 'Rose', 'Jessica alba', 'Lily', 'Sam', 'Warehouse micha el', 'Julia', 'A.j.', 'Phone salesman', 'Jim, pam, michael and dwight', 'Blo od drive worker', 'Blood girl', 'Lynn', 'Blonde', 'Eric', 'Girl', 'Charles', 'Stephanie', 'Employees', 'Isaac', 'Angela and kelly', 'Supervisor', 'Micha l', 'Nana', 'Chares', 'Old woman', 'Erin', 'Dwight and erin', 'Dwight and an dy', 'Michael, pam & ryan', 'Secretary', 'Automated phone voice', 'Mr. schof ield', 'Financial guy', 'Ty', 'Jessica', 'Vance refrigeration guy 1', 'Vance refrigeration guy 2', 'Vrg 1', 'Vrg 2', 'Rolph', 'Aj', 'Man from buffalo', 'Woman from buffalo', 'Dwight & andy', 'Female intern', 'Maurie', 'Dwight, j im & pam', 'Jim & pam', 'Megan', 'Gwenneth', 'Front desk clerk', 'Mr. halper t', 'Mema', 'Mr. beesly', 'Little girl', 'Penny', 'Isabel', 'Hotel employe e', 'Hotel manager', 'Tom halpert', 'Pete halpert', 'Tom and pete', "Pam's d ad", 'Grotti', 'Andy and dwight', 'Credit card rep', 'Rep', 'Various', 'Keen a gifford', 'Helene', "David wallace's secretary", 'Voice on cd player', 'Li mo driver', 'Laurie', 'Registrar', 'Security', 'Woman in line', 'Man in lin e', 'Shareholder', 'Female shareholder', 'Second shareholder', 'Third shareh older', 'Fourth shareholder', "O'keefe", 'Mikela', 'Students', 'Teacher', 'L efevre', 'Zion', 'Deliveryman', 'Michael and erin', 'Daryl', 'Office', 'Kell y and erin', 'Matt', 'Computron', 'Fake stanley', 'Gabe', 'Andy & erin', 'Ch ristian slater', 'Jo bennett', 'Jo', 'Jerry', 'Teddy wallace', 'Mrs. wallac e', 'Teddy', 'Dwight, jim and michael', 'Policeman', 'Hospital employee', " (pam's mom) heleen", 'Kathy', 'Dale', 'Clark', 'Isabelle', 'D', 'Warehouse g uy 1', 'Warehouse guy 2', 'Reid', 'Night cleaning crew', 'Meredith, creed, o scar and matt', 'Miichael', 'Julie', 'Hide', 'Bar manager', 'Bouncer', 'Girl at table', 'Cookie monster', 'Dwight.', "Hayworth's waiter", "Oscar's voice from the computer", 'Donna', 'Michael and donna', 'Mihael', 'Old lady', 'Gle n', 'Gym instructor', 'Dwight and angela', 'Shane', 'Reporter', 'Realtor', 'Luke', 'Window treatment guy', 'Angel', 'Salesman', 'Usher', 'Shelby', 'Swe eney todd', 'Mexican man', 'Son', 'Nate', 'Employees except dwight', 'Astri d', 'Carroll', 'Carrol', 'Danny', 'Steve', 'Darryl and andy', 'Church congre gation', 'Pastor', 'Female church member', 'Male church member', 'Female chu rch member [to michael]', 'Doug [church member]', 'Doug', 'Mee-maw', 'Meema w', 'Carla', "Jim's dad", 'Bus driver', 'Michael and andy', 'Another guy', 'Radio', 'Cece', 'Tv', 'Meridith', 'Robotic voice', 'Ryan and michael', 'Phy liss', 'Dwight & nate', 'Passer-by', 'Bass player', 'Justine', 'Jada', 'Robe rt', 'Darrly', 'Member', 'Video michael', 'Bookstore employee', 'Dj', 'David brent', 'Older guy', 'Phyllis, stanley, dwight', 'Younger guy', 'Older woma n', 'Professor powell', 'Ryan and kelly', 'Helen', 'Attendant', 'Hot dog gu y', 'Cell phone sales person', 'Boom box', 'Andy and erin', "Holly's mom", "Holly's dad", 'Deangelo', 'Deangelo/michael', 'Denagelo', "Darryl's siste r", 'Audience', 'Together', 'Erin and kelly', 'Abe', 'Rory', 'Deagnelo', 'Jo rdan', 'Dwight [on phone]', 'Mose [on phone]', 'All but oscar', 'Darryl and angela', 'Fred henry', 'Fred', 'Warren buffett', 'Warren', 'Robert californi a', 'Merv bronte', 'Merv', 'Nellie bertram', 'Nellie', 'Finger lakes guy', 'Pam as fourth-biggest client', 'Pam as ninth-biggest client', 'Darryl & osc ar', 'Tattoo artist', 'Female applicant', 'Male applicant 1', 'Male applican t 2', 'Gideon', 'Bruce', 'Dwight, erin, jim & kevin', 'Walter', 'Ellen', 'Wa lter jr', 'Andy & walter', 'Walter & walter jr', "Erin's cell phone", 'Ber t', 'Gabe/kelly/toby', 'Andy/pam', 'Andy/stanley', 'Val', 'Warehouse crew', 'Cathy', 'Offscreen', 'Curtis', 'Drummer', 'Pam and kelly', 'Old man', 'Andy and darryl', 'Darryl and kevin', 'Park ranger', 'Chelsea', 'Archivist', 'Nar rator', 'Soldier', 'Amanda', 'Susan', 'Andy/oscar', "Bob's secretary", 'Mrs. california', 'Host', 'Queerenstein bears', "Oscar's friend", 'Stu', 'Stonewa ll host', 'Meredith & kelly', 'Einsteins', 'Senator lipton', 'Ernesto', 'Off icer foley', 'Andy, darryl & officer foley', 'Saleswoman', 'Emergency operat or', 'Paramedic', 'Donna muraski', 'Wally amos', 'Angela/pam', 'Brandon', 'B logger', 'Blogger 2', 'Lady blogger', 'Patty', 'Others', 'Elderly woman', 'I rene', 'Alonzo', 'Glenn', 'Erin and irene', 'Kevin & meredith', 'Lauren', 'P arty guests', 'Magician', 'Ravi', 'Robert & creed', 'Wrangler', 'Senator', 'Vet', 'Harry', 'Mr. ramish', 'Calvin', 'Off-camera', 'Rafe', 'Fake jim', 'V oicemail', 'Nellie and pam', 'Group: dunder mifflin!\nandy: andy bernard pre sents: summer softball epic fails! [kevin swings bat on screen, fart noise f ollows] fail. [repeats] fail', '[repeats]\nandy: fail', "[clark and pete are shown on screen]\nvideo andy: hey, i'm pete, puberty is such a drag, man. an

d i'm clark! i like to eat toilet paper. [clark and pete wave at camera] we fail! [video shows memorial of jerry", 'Phyllis, kevin & stanley', 'Hct', 'H ct member #1', 'Hct member #2', 'Broccoli rob', 'Businessman #1', 'Businessm an #2', 'Businessman #3', 'Hct member #3', 'White', 'Boat guy', 'Walt jr.', 'Senator liptop', 'Guys in breakroom', 'Business partner', 'Molly', 'Colin', 'Trevor', 'Julius irving', 'New instant message', 'Suit store father', 'Athl ead employee', 'Dennis', 'Wade', 'Suit store son', 'Female athlead employe e', '3rd athlead employee', '4th athlead employee', 'Co-worker', 'Co-worker #2', 'Mr. romanko', 'Dance teacher', 'Ballerinas', 'Parent in audience', 'Pa rent in audience #2', 'Parent in audience #1', 'Investor', 'Lonnie', 'Fast f ood worker', 'Drive thru customer', 'Brian', 'Cameraman', 'Rolf', 'Gabor', 'Zeke', 'Melvina', 'Wolf', 'Sensei ira', 'Pam & dwight', 'Frank', 'Party ann ouncer', 'Party guest', 'Party photographer', 'Party waiter', 'Nail stylist 1', 'Nail stylist 2', 'Nail manager', 'Shirley', 'Athlead coworker', 'Roge r', 'Alice', "Oscar's computer", 'Jeb', 'German minister', 'Fannie', 'Henr y', 'Esther', 'Aunt shirley', 'Cameron', 'Promo voice', 'Ryan howard', 'Mr. ruger', 'Promo announcer', 'Ruger sister 1', 'Salesmen', 'Ruger sister 2', 'Angela & oscar', 'Reporter #1', 'Reporter #2', 'Mrs. davis', 'Phillip', 'Ca rla fern', 'Director', 'Producer', 'Bob vance, vance refrigeration', 'Produc tion assistant', 'Sensei', 'Philip', 'Check-in guy', 'Casey', 'Mark mcgrat h', 'Jim & dwight', 'Camera crew', 'People in line', 'Santigold', 'Aaron rod gers', 'Clay aiken', 'Malcolm', 'Casey dean', 'Bill hader', 'Seth mayers', 'Dakota', 'Stripper', 'Jakey', 'Man 1', 'Woman 1', 'Woman 2', 'Man 2', 'Mode rator', 'Man 3', 'Woman 3', 'Woman 4', 'Joan', 'Minister', 'Carol stills']

For each character, find out who has the most lines across all episodes

Michael has the most lines across all episodes, with 12140 number of lines

What is the average of words per line for each character?

```
In [36]: from collections import defaultdict
    character_to_lines = defaultdict(list)
    office_data.apply(lambda x: character_to_lines[x.speaker].append(x.line_text
    character_to_avg_words_per_line = defaultdict(lambda : 0)
    for character, lines in character_to_lines.items():
        if len(lines) == 0:
            raise "error: lines of len 0"
        # rounded to integer
        character_to_avg_words_per_line[character] = int(sum(map(lambda x: len(x)))
In [37]: list(character_to_avg_words_per_line.items())[:5]
Out[37]: [('Michael', 77), ('Jim', 52), ('Pam', 49), ('Dwight', 65), ('Jan', 55)]
```

What is the most common word per character?

```
In [38]: character_to_word_freq = dict()
punctuations = '''!()-[]{};:'"\,<>./?@#$%^&*_~'''
```

```
for character, lines in character_to_lines.items():
             all_lines = " ".join(lines)
             for punc in punctuations:
                 all lines = all lines.replace(punc, " ")
             word freq = Counter(all lines.split())
             character to word freq[character] = word freq
In [41]: character to most common word = dict()
         for character, word freq in character to word freq.items():
             maximum freq = max(word freq.values())
             most common word = None
             # assume only one most common word
             for word, freq in word_freq.items():
                 if freq == maximum_freq:
                     most common word = word
                     break
             if not most_common_word:
                 raise "error: not found most common word"
```

In [42]: character_to_most_common_word

character to most common word[character] = most common word

```
Out[42]: {'Michael': 'I',
           'Jim': 'I',
           'Pam': 'I',
           'Dwight': 'I',
           'Jan': 'I',
'Michel': 'I',
           'Todd Packer': 'I',
           'Phyllis': 'I',
           'Stanley': 'I',
           'Oscar': 'I',
           'Angela': 'I',
           'Kevin': 'I',
           'Ryan': 'I',
           'Man': 'I',
           'Roy': 'I',
           'Documentary Crew Member': 'you',
           'Mr. Brown': 'you',
           'Toby': 'I',
           'Kelly': 'I',
           'Meredith': 'I',
           'Travel Agent': 'know',
           'Man on Phone': 'the',
           'Everybody': 'Happy',
           'Lonny': 's',
           'Darryl': 'I',
           'Teammates': 'Yeah',
           'Michael and Dwight': 'on',
           'Warehouse worker': 'Roy',
           'Madge': 'Hey',
           'Worker': 'I',
           'Packer': 'I',
           'Warehouse Worker': 'back',
           'Katy': 'I',
           'Guy at bar': 'Sing',
           'Other Guy at Bar': 'We',
           'Guy At Bar': 'Sing',
           'Pam and Jim': 'Dundies',
           'Employee': 'to',
           "Chili's Employee": 'not',
           'Waitress': 'don',
           'Manager': 'on',
           "Kevin's computer": 'monkey',
           'Warehouse Guy': 'No',
           'Warehouse guy': 'Little',
           'Warehouse guys': 'kissing',
           'Video': 'the',
           'Man in Video': 'a',
           'Actor': 'Hey',
           'Redheaded Actress': 'Hey',
           "Mr. O'Malley": 'I',
           'Albiny': 'I',
           "Pam's Mom": 'Oh',
           'Carol': 'I',
           'Bill': 's',
           'Everyone': 'Oh',
           'Crowd': 'clapping',
           'song': 'Everybody',
           'Song': 'Everybody',
           'Dwight and Michael': 'ha',
           'Sherri': 'the',
           'Creed': 'I',
           'Devon': 'you',
           'Children': 'ringing',
           'Kid': 'I',
```

```
'Vance Refrigeration Worker #1': 'a',
'Vance Refrigeration Worker #2': 'ass',
'Hank the Security Guard': 'is',
'Ira': 'a',
"Ryan's Voicemail": 'new',
'Master': 'Dwight',
'Alyssa': 'Hi',
'Christian': 'I',
'Hostess': 'This',
'Michael and Christian': 'baby',
'Sadiq (IT guy)': 'you',
'Mark': 'I',
'Improv Teacher': 'you',
'Mary-Beth': 'I',
'Girl acting Pregnant': 'I',
'Actress': 'Again',
'Michael and Jim': 'we',
'Kevin & Oscar': 'One',
'All': 'the',
'Liquor Store Clerk': 'It',
'JIm': 'Okay',
'Bob Vance': 's',
'Phyllis, Meredith, Michael, Kevin': 'One',
'Captain Jack': 'I',
'Brenda': 'I',
'Darryl and Katy': 'Snorkel',
'Jim and Pam': 'Oh',
'Billy Merchant': 'I',
'Doctor': 'the',
'Lab Tech': 'Stop',
'Dana': 'you',
"Hooter's Girls": 'You',
'Phylis': 'Angela',
'Gil': 's',
'Pam and others': 'mm',
'Ed': 'your',
'Todd': 'I',
"Jim's voicemail": 'You',
'Women': 'of',
'Guy': 'I',
'Men': 'generalized',
'Group chant': 'Michael',
'All the Men': 'Generalized',
'Dwight and Roy': 'at',
'Delivery man': 'you',
'Craig': 'I',
'Josh': 'I',
'David': 'you',
'Dan': 'And',
'Receptionist': 'you',
'Overhead': 'I',
'Speaker': 'Dwight',
'Jim and Dwight': 'in',
'Melissa': 'I',
'Sasha': 'you',
'Abby': 'I',
'Jake': 'I',
'The Kids': 'I',
'Kids': 'Ewwww',
'Miss Trudy': 'TV',
'Edward R. Meow': 'you',
'Chet': 'My',
'Young Michael': 'I',
'Delivery Woman': 'Hi',
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```
'Delivery Boy': 'Uh',
'Office Staff': 'Happy',
'Store Employee': 'Ma',
'Pam/Jim': 'in',
'Linda': 'a',
'Hank': 'I',
'Sheriff': 'you',
'I.D. Photographer': 'Off',
'Photographer': 'you',
'Anglea': 'it',
'Female worker': 'Okay',
"Billy's Girlfriend": 'I',
'Billy': 's',
'Dealer': 'is',
'Bob': 'you',
"Meredith's Vet": 'Hey',
'Andy': 'I',
'Karen': 'I',
'Jerome Bettis': 'All',
'Ted': 'I',
'Waiter': 'you',
'Jim, Josh, and Dwight': 'Hi',
'Evan': 'you',
'Alan': 'to',
'Ryan and others': 's',
'Hannah': 's',
'Announcer': 'the',
'Pretzel guy': 'chocolate',
'Cousin Mose': 'Bye',
'Tony': 'I',
'Server': 'It',
'Girls': 'laugh',
"Kelly's Mom": 'a',
"Kelly's Father": 'you',
'Young Man': 'Is',
'Andy and Jim': 'sing',
'Mrs. Kapoor': 'No',
'Mr. Kapoor': 'nods',
'M ichael': 'Wallace',
'Dwight:': 'closed',
'Martin': 'I',
'Male voice': 'thank',
'Michael & Dwight': 'in',
'Andy & Michael': 'oh',
'Chef': 's',
'Woman at bar': 'I',
'Cindy': 'I',
'Second Cindy': 'I',
'Other waitress': 'about',
'Andy and Michael': 'a',
'Both': 'the',
'Someone': 's'
'Harvey': 'you',
'Buyer': 'I',
'Kenny': 's',
'Julius': 'you',
'Phone': 'you',
'Staples Guy': 'You',
'MIchael': 'me',
'Lady': 'the',
'Paris': 'I',
'Marcy': 's',
'Ben Franklin': 'the',
'Elizabeth': 'I',
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'Priest': 'And',
'Uncle Al': 'I',
'Randy': 'a',
'Unknown': 'She',
'College Student': 'Dude',
'Business Student #1': 'in',
'Business Student #2': 'a',
'Business Student #3': 'How',
'Woman': 'I',
'Artist': 'Thanks',
'Student 1': 'How',
'Student 2': 'question',
'Student 3': 'your',
'Rachel': 'I',
'Dan Gore': 'No',
'Bartender': 'you',
'Child': 'I',
'Hunter': 'Jan',
'Darry': 'It',
'Micheal': 'the',
'Larry': 'please',
'Chad Lite': 'uh',
'Jamie': 'Andy',
'Barbara': 'I',
'School Official': 'with',
'Barbara Allen': 'I',
'Spanish Teacher': 'I',
'Denise': 'you',
'Group': 'Yeah',
'IT Tech Guy': 'to',
'Nurse': 'you',
'Intern': 'a',
'Pediatrician': 'a',
'Robert Dunder': 'I',
'Amy': 'I',
'GPS': 'Proceed',
'Larry Myers': 'I',
'Ex-client': 'I',
'Voice of Thomas Dean': 'I',
'sAndy': 'Okay',
'DunMiff/sys': 'on',
'DwightKSchrute': 'on',
'Tech Guy': 'the',
'Angels': 'Okay',
'Pizza guy': 'that',
'Voice #1 on phone': 'Hey',
'Voice #2 on phone': 'Yeah',
'Micahel': 'this',
'Michae': 't',
'Nick': 'the',
'Mose': 'I',
'Co-Worker 1': 'Or',
'Stanely': 'on',
'Micael': 'No',
'Vikram': 'you',
'Co-Worker 2': 'you',
'Co-Worker 3': 'Really',
'Mr. Figaro': 'Lipophedrine',
'Oscar and Stanley': 'You',
'Ad guy 1': 's',
'Ad guy 2': 'to',
'David Wallace': 'to',
'Andy, Creed, Kevin, Kelly, Darryl': 'Call',
'Andy, Creed, Kevin, Kelly': 'people',
```

```
"Michael's Ad": 'a',
'Rolando': 'on',
'Ben': 't',
'Security quard': 'in',
'Lester': 'you',
'Diane Kelly': 'you',
'Diane': 'that',
'Deposition Reporter': 'to',
'Council': 'he',
"Hunter's CD": 'right',
'Officer 1': 'a',
'Officer 2': 'you',
'Officer': 'Yes',
'Neighbor': 'She',
"Wendy's phone operator": 'Wendy',
'Margaret': 'I',
'Coffee shop worker': 'Michael',
'Jan [on phone]': 'Michael',
'W.B. Jones': 'Let',
'Paul Faust': 'Whose',
'Bill Cress': 'Ohh',
'Paul': 'have',
'Michael/Dwight': 'in',
'Troy': 'I',
'Girl in Club': 'I',
'Tall Girl #1': 'to',
'All Girls': 'Wooo',
'Tall Girl #2': 'We',
'Girl in 2nd club': 'do',
'Cleaning lady': 'Ohh',
'Michael and Darryl': 'simultaneously',
'Phil Maguire': 'you',
'Phil': 'I',
'Justin': 'I',
'Angela and Dwight': 'silently',
'Maguire': 'Good',
'Woman on mic': 'will',
'Graphics guy': 'I',
'Brad': 'I',
'Air Force recruiter': 'Justin',
'Holly': 'I',
'Woman over speakerphone': 'Antigravity',
'Vance Refrigeration guy': 'Hey',
'Holy': 'I',
'Co-workers': 'Toby',
'Ronnie': 'Dunder',
'Professor': 'the',
'Friend': 't',
'JIM9334 [screen name]': 'Let',
'Receptionitis15 [screen name]': 'What',
'JIM9334': '11',
'Receptionitis15': 'Where',
'Michael & Holly': 'Let',
'Dight': 'Michael',
'Kendall': 'the',
'Michael [on phone]': 'Paaam',
'Pam [on phone]': 'I',
'Man on phone': 'the',
'Hank [the security guard]': 'blues',
'Guy in audience': '140',
'Michael and Holly': 'Life',
'Michael, Holly, and Darryl': 'you',
'Tom': 'you',
'Pete': 'I',
```

```
'Holly & Darryl': 'in',
'Holly & Michael': 'both',
'Mother': 'you',
'Alex': 'you',
'Customer': 'I',
'Kevin & Andy': 'Ooooh',
'Stanley & Phyllis': 'continue',
'Stewardess': 'I',
'Beth': 'to',
'Concierge': 'the',
'Marie': 'you',
'Guy at table': 'What',
'Concierge Marie': 'Mmm',
'Client': 'with',
'Dacvid Walalce': 'hey',
'David Wallcve': 'Michael',
'Dacvid Wallace': 'Michael',
'Leo': 'you',
'Vance Refrigeration Guy': 's',
'Police Officer 1': 'a',
'Police Officer 2': 'Sir',
'Guy buying doll': '120',
'Rehab Nurse': 'Can',
'Everyone watching': 'Oh',
'Entire Prince family': 'Hello',
'Prince Grandfather': 'I',
'Entire office': 'Hot',
'Prince': 'Grandfather',
'Prince Granddaughter': 'Grandma',
'Prince Grandmother': 'Don',
'Prince Son': 'No',
'Phyllis and Creed': 'Ahhhh',
'Lawyer': 'a',
'CPR trainer': 'A',
'CPR Trainer': 'It',
'Rose': 'to',
'Jessica Alba': 'movie',
'Lily': 'you',
'Sam': 'I',
'Warehouse Michael': 'Michael',
'Julia': 'I',
'A.J.': 'laughs',
'Phone Salesman': 'I',
'Jim, Pam, Michael and Dwight': 'Ayyyy',
'Blood Drive Worker': 'You',
'Blood Girl': 'I',
'Lynn': 'I',
'Blonde': 'I',
'Eric': 'I',
'Girl': 'to',
'Charles': 'I',
'Stephanie': 'David',
'Employees': 'Michael',
'Isaac': 'the',
'Angela and Kelly': 'He',
'Supervisor': 'Back',
'Michal': 'Vikram',
'Nana': 'I',
'Chares': 'Okay',
'Old Woman': 'We',
'Erin': 'I',
'Dwight and Erin': 'West',
'Dwight and Andy': 'me',
'Michael, Pam & Ryan': 'you',
```

```
'Secretary': 'in',
'Automated phone voice': 'If',
'Mr. Schofield': 'you',
'Financial Guy': 'you',
'Ty': 's',
'Jessica': 'I',
'Vance Refrigeration Guy 1': 'There',
'Vance Refrigeration Guy 2': 'Where',
'VRG 1': 'the',
'VRG 2': 'What',
'Rolph': 's',
'AJ': 'I',
'Man from Buffalo': 'over',
'Woman from Buffalo': 'David',
'Dwight & Andy': 'Parkour',
'Female Intern': 'hands',
'Female intern': 'confused',
'Maurie': 'you',
'Dwight, Jim & Pam': 'stare',
'Jim & Pam': 'look',
'Megan': 's',
'Gwenneth': 'Definitely',
'Front Desk Clerk': 'I',
'Mr. Halpert': 'So',
'Mema': 'I',
'Mr. Beesly': 'you',
'Little Girl': 'the',
'Penny': 'I',
'Isabel': 'I',
'Hotel Employee': 'I',
'Hotel Manager': 'and',
"Pam's mom": 'Oh',
'Tom Halpert': 'Excuse',
'Pete Halpert': 'Sisters'
'Tom and Pete': 'laughing',
"Pam's dad": 'Hey',
'Grotti': 'you',
'Andy and Dwight': 'the',
'Credit card rep': 'Hello',
'Rep': 'you',
'Various': 'out',
'Keena Gifford': 'the',
'Helene': 'I',
"David Wallace's Secretary": 'I',
'Voice on CD player': 'to',
'Limo Driver': 'seats',
'Laurie': 'you',
'Registrar': 'of',
'Security': 'No',
'Woman in line': 'just',
'Man in line': 'Sure',
'Shareholder': 'You',
'Female Shareholder': 'Limousine',
'Second Shareholder': 'You',
'Third Shareholder': 'You',
'Fourth Shareholder': 'How',
"O'Keefe": 'the',
'Mikela': 'I',
'Students': 'What',
'Teacher': 'you',
'Lefevre': 'to',
'Zion': 'I',
'Deliveryman': 'Hi',
'Michael and Erin': 'What',
```

```
'Daryl': 'I',
'Office': 'Aw',
'Kelly and Erin': 'on',
'Matt': 'I',
'Computron': 'to',
'Fake Stanley': 'Hi',
'Gabe': 'I',
'Andy & Erin': 'the',
'Christian Slater': 'Sabre',
'Jo Bennett': 'to',
'Jo': 'I',
'Jerry': 'you',
'Teddy Wallace': 'Huh',
'Mrs. Wallace': 'you',
'Teddy': 'Suck',
'Dwight, Jim and Michael': 'Here',
'Policeman': 'Pull',
'Hospital employee': 'you',
"(Pam's mom) Heleen": 'Hi',
'Kathy': 's',
'Dale': 'Hi',
'Clark': 'I',
'Isabelle': 'I',
'D': 'the',
'Warehouse guy 1': 'We',
'Warehouse guy 2': 'See',
'Reid': 'to',
'Night cleaning crew': 'Sorry',
'Meredith, Creed, Oscar and Matt': 'cheering',
'Miichael': 'Thank',
'Julie': 'I',
'Hide': 'I',
'Bar Manager': 'you',
'Bouncer': 'We',
'Girl at table': 'Hi',
'Cookie Monster': 'Kevin',
'Dwight.': 'Hello',
"Hayworth's waiter": 'Here',
"Oscar's voice from the computer": 'I',
'Donna': 'I',
'Michael and Donna': 'indistinct',
'Mihael': 'What',
'Old lady': 'Look',
'Glen': 'I',
'Gym Instructor': 'me',
'Gym instructor': 're',
'Dwight and Angela': 'Joint',
'Shane': 's',
'Reporter': 'the',
'Realtor': 'phone',
'Luke': 'I',
'Window treatment guy': 'I',
'Angel': 'Please',
'Salesman': 'I',
'Usher': 'Excuse',
'Shelby': 'you',
'Sweeney Todd': 'the',
'Mexican Man': 'speaking',
'Son': 'We',
'Nate': 'I',
'Employees except Dwight': 'No',
'Astrid': 'Mommy',
'Carroll': 'you',
'Carrol': 'I',
```

```
'Danny': 'I',
'Steve': 'Michael',
'Darryl and Andy': 'singing',
'Church congregation': 'singing',
'Pastor': 'to',
'Female church member': 'for',
'Male church member': 'to',
'Female church member [to Michael]': 'Good',
'Doug [church member]': 'I',
'Doug': 'I',
'Mee-Maw': 'I',
'MeeMaw': 'I',
'Carla': 'you',
"Jim's Dad": 'Jim',
'Bus driver': 'stop',
'Michael and Andy': 'Stop',
'Another guy': 'bus',
'Radio': 'Nordquist',
'Cece': 'No',
'TV': 'And',
'Meridith': 'Drama',
'Robotic Voice': 'WUPHF',
'Ryan and Michael': 'WUPHF',
'Phyliss': 'Oh',
'Dwight & Nate': 'Pam',
'Passer-by': 'I',
'Bass Player': 'Hi',
'Justine': 'She',
'Jada': 'Merry',
'Robert': 'I',
'Darrly': 'handing',
'Member': 'It',
'Video Michael': 'I',
'Bookstore employee': 'you',
'DJ': 'you',
'David Brent': 'a',
'Older guy': 'I',
'Phyllis, Stanley, Dwight': 'Oooh',
'Younger Guy': 'like',
'Older Woman': 'I',
'Professor Powell': 'Um',
'Ryan and Kelly': 'I',
'Helen': 's',
'Attendant': 'it',
'Hot Dog Guy': 'I',
'Cell Phone Sales Person': 'Sure',
'Boom Box': 'The',
'Andy and Erin': 'bursting',
"Holly's Mom": 's',
"Holly's Dad": 'on',
'Deangelo': 'I',
'Deangelo/Michael': 'in',
'Denagelo': 'whispering',
"Darryl's sister": 'holds',
'DeAngelo': 'I',
'Audience': 'Speech',
'Together': 'It',
'Erin and Kelly': 'And',
'abe': 'I',
'Rory': 'I',
'DeAgnelo': 'with',
'Jordan': 'I',
'Dwight [on phone]': 'Mose',
'Mose [on phone]': 'Aaaaahhhhh',
```

```
'All but Oscar': 'under',
'Darryl and Angela': 'Yes',
'Fred Henry': 'I',
'Fred': 'I',
'Warren Buffett': 'Can',
'Warren': 'I',
'Robert California': 'the',
'Merv Bronte': 'the',
'Merv': 'I',
'Nellie Bertram': 'First',
'Nellie': 'I',
'Finger Lakes Guy': 'I',
'Pam as fourth-biggest client': 'a',
'Pam as ninth-biggest client': 'paper',
'Darryl & Oscar': 'Let',
'Tattoo Artist': 'you',
'Female Applicant': 'Your',
'Male Applicant 1': 'Wait',
'Male Applicant 2': 'Like',
'Gideon': 'a',
'Bruce': 'Made',
'Dwight, Erin, Jim & Kevin': 'Dwight',
'Walter': 'you',
'Ellen': 'were',
'Walter Jr': 'I',
'Andy & Walter': 'to',
'Walter & Walter Jr': 'you',
"Erin's Cell Phone": 'If',
'Bert': 'a',
'Gabe/Kelly/Toby': 'bones',
'Andy/Pam': 'time',
'Andy/Stanley': 'singing',
'Val': 'I',
'Warehouse Crew': 'First',
'Cathy': 'I',
'Offscreen': 'Good',
'Curtis': 'Yeah',
'Drummer': 'Go',
'Pam and Kelly': 'With',
'Old Man': 'you',
'Andy and Darryl': 'Oh',
'Darryl and Kevin': 'And',
'Park Ranger': 'that',
'Chelsea': 'taps',
'Archivist': 'you',
'Narrator': 'the',
'Soldier': 'I',
'Amanda': 'the',
'Susan': 'I',
'Andy/Oscar': 'it',
"Bob's Secretary": 'just',
'Mrs. California': 'This',
'Host': 'the',
'Queerenstein Bears': 'Whoo',
"Oscar's friend": 'Whoo',
'Stu': 'Grab',
'Stonewall Host': 'Kevin',
'Meredith & Kelly': 'One',
'Einsteins': 'Whoo',
'Senator Lipton': 's',
'Ernesto': 'pulls',
'Officer Foley': 'that',
'Andy, Darryl & Officer Foley': 'mill',
'Saleswoman': 'What',
```

```
'Emergency Operator': 'Sir',
 'Paramedic': 'You',
 'Donna Muraski': 'her',
 'Wally Amos': 'aloha',
 'Angela/Pam': 'Unbelievable',
 'Brandon': 'you',
 'Blogger': 'Yeah',
 'Blogger 2': 'This',
 'Lady Blogger': 'Patty',
 'Patty': 'Yes',
 'Old Lady': 'and',
 'Others': 'Yeah',
 'Elderly Woman': 'rises',
 'Irene': 'you',
 'Alonzo': 'Good',
 'Glenn': 's',
 'Erin and Irene': 'screaming',
 'Kevin & Meredith': 'in',
 'Lauren': 'Andy',
 'Party guests': 'it',
 'Magician': 'you',
 'Ravi': 'you',
 'Robert & Creed': 'in',
 'Wrangler': 'around',
 'Senator': 'I',
 'Vet': 'to',
 'Harry': 'you',
 'Mr. Ramish': 'me',
 'Calvin': 't',
 'Off-camera': 'you',
 'Rafe': 'Iceman',
 'Fake Jim': 'I',
 'Voicemail': 'Please',
 'Nellie and Pam': 'giggling',
 'Group: Dunder Mifflin!\nAndy: Andy Bernard presents: Summer Softball Epic
Fails! [Kevin swings bat on screen, fart noise follows] Fail. [repeats] Fai
l': 'Kevin',
 '[repeats]\nAndy: Fail': 'Oscar',
 "[Clark and Pete are shown on screen]\nVideo Andy: Hey, I'm Pete, puberty i
s such a drag, man. And I'm Clark! I like to eat toilet paper. [Clark and Pe
te wave at camera] We fail! [Video shows memorial of Jerry": 'Andy',
 'Phyllis, Kevin & Stanley': 'Pies',
 'HCT': 'singing',
 'HCT Member #1': 'Did',
 'HCT Member #2': 'I',
 'Broccoli Rob': 'I',
 'Businessman #1': 'So',
 'Businessman #2': 'the',
 'Businessman #3': 'You',
 'HCT Member #3': 'I',
 'White': 'Or',
 'Boat Guy': 'you',
 'Walt Jr.': 'I',
 'Senator Liptop': 'I',
 'Guys in breakroom': 'laughter',
 'Business partner': 'on',
 'Molly': 'I',
 'Colin': 'it 000s',
 'Trevor': 'I',
 'Julius Irving': 'I',
 'New Instant Message': 'Stone',
 'Suit Store Father': 'son',
 'Athlead Employee': 'the',
 'Dennis': 'QQQAnd',
```

```
'Wade': 'Okay',
'Suit Store Son': 'you',
'Female Athlead Employee': 'Science',
'3rd Athlead Employee': 'I'
'4th Athlead Employee': 'I 💔 🕅 ',
'Co-worker': 'Jim',
'Co-worker #2': 'Uh',
'Mr. Romanko': 'I',
'Dance Teacher': 'Ladies',
'Ballerinas': 'One',
'Parent in Audience': 'Really'
'Parent in audience #2': 'You@@re',
'Parent in audience #1': 'Yes',
'Investor': 'Listen',
'Lonnie': 'Hey',
'Fast Food Worker': 'And',
'Drive Thru Customer': 'Go',
'Brian': 'you',
'Cameraman': 'Brian',
'Rolf': 'I',
'Gabor': 'I',
'Zeke': 'the',
'Melvina': 'to',
'Wolf': 'I',
'Sensei Ira': 'I
'Pam & Dwight': 'laughs',
'Frank': 'You',
'Party Announcer': 'and',
'Party Guest': 'You',
'Party Photographer': 'to',
'Party Waiter': 'Sean',
'Nail stylist 1': 'Oh',
'Nail stylist 2': 'to',
'Nail manager': 'No',
'Shirley': 's',
'Athlead Coworker': 'Hey',
'Roger': 'No',
'Alice': 'to',
"Oscar's Computer": 'My',
'Jeb': 'a',
'German Minister': 'to',
'Fannie': 'I',
'Henry': 'Dwight',
'Esther': 'the',
'Aunt Shirley': 'you',
'Cameron': 'I',
'Promo Voice': 'The',
'Ryan Howard': 'I',
'Mr. Ruger': 'you',
'Promo Announcer': 'Speaks',
'Ruger Sister 1': 'That',
'Salesmen': 's',
'Ruger Sister 2': 'We',
'Angela & Oscar': 'Hi',
'Reporter #1': 'gay',
'Reporter #2': 'Question',
'Mrs. Davis': 'on',
'Phillip': 'Mama',
'Carla Fern': 'you',
'Director': 'the',
'Producer': 'Yeah',
'Bob Vance, Vance Refrigeration': 'You',
'Production Assistant': 'So',
'Sensei': 'I',
```

```
'Philip': 'Mama',
'Check-in guy': 'the',
'Casey': 'you',
'Mark McGrath': 'you',
'Jim & Dwight': 'Sea',
'Camera Crew': 'Okay',
'People in line': 'Oh',
'Santigold': 'What',
'Aaron Rodgers': 'you@@re',
'Clay Aiken': 'not',
'CameraMan': 'We@@@re',
'Malcolm': 'I',
'Casey Dean': 'You',
'Bill Hader': 'crying',
'Seth Mayers': 'be',
'Dakota': 'Hi',
'Stripper': 'I',
'Jakey': 'or',
'Man 1': 'How',
'Woman 1': 'Jim',
'Woman 2': 'I',
'Man 2': 'Pam',
'Moderator': 'on',
'Man 3': 'you',
'Woman 3': 'I',
'Woman 4': 'how',
'Joan': 'I',
'Minister': 'the',
'Carol Stills': 'Oh'}
```

Number of episodes where the character does not have a line, for each character

```
Out[46]: {'Michael': 49,
           'Jim': 1,
           'Pam': 4,
           'Dwight': 0,
           'Jan': 143,
           'Michel': 181,
           'Todd Packer': 175,
           'Phyllis': 17,
           'Stanley': 15,
           'Oscar': 20,
           'Angela': 11,
           'Kevin': 6,
           'Ryan': 45,
           'Man': 168,
           'Roy': 156,
           'Documentary Crew Member': 185,
           'Mr. Brown': 185,
           'Toby': 67,
           'Kelly': 43,
           'Meredith': 44,
           'Travel Agent': 185,
           'Man on Phone': 185,
           'Everybody': 179,
           'Lonny': 183,
           'Darryl': 81,
           'Teammates': 185,
           'Michael and Dwight': 178,
           'Warehouse worker': 185,
           'Madge': 183,
           'Worker': 184,
           'Packer': 180,
           'Warehouse Worker': 185,
           'Katy': 183,
           'Guy at bar': 185,
           'Other Guy at Bar': 185,
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           'Pam and Jim': 184,
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           'Warehouse Guy': 183,
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           'Warehouse guys': 185,
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           'Man in Video': 185,
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           'Redheaded Actress': 185,
           "Mr. O'Malley": 185,
           'Albiny': 185,
           "Pam's Mom": 185,
           'Carol': 180,
           'Bill': 184,
           'Everyone': 155,
           'Crowd': 179,
           'song': 185,
           'Song': 185,
           'Dwight and Michael': 182,
           'Sherri': 185,
           'Creed': 49,
           'Devon': 184,
           'Children': 185,
           'Kid': 182,
```

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'Vance Refrigeration Worker #1': 183,
'Vance Refrigeration Worker #2': 184,
'Hank the Security Guard': 184,
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"Ryan's Voicemail": 185,
'Master': 185,
'Alyssa': 185,
'Christian': 185,
'Hostess': 184,
'Michael and Christian': 185,
'Sadiq (IT guy)': 185,
'Mark': 183,
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'Girl acting Pregnant': 185,
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'Michael and Jim': 185,
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'JIm': 185,
'Bob Vance': 177,
'Phyllis, Meredith, Michael, Kevin': 185,
'Captain Jack': 185,
'Brenda': 185,
'Darryl and Katy': 185,
'Jim and Pam': 182,
'Billy Merchant': 185,
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'Lab Tech': 185,
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"Hooter's Girls": 185,
'Phylis': 184,
'Gil': 184,
'Pam and others': 185,
'Ed': 184,
'Todd': 183,
"Jim's voicemail": 185,
'Women': 183,
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'Men': 185,
'Group chant': 185,
'All the Men': 185,
'Dwight and Roy': 185,
'Delivery man': 185,
'Craig': 185,
'Josh': 179,
'David': 158,
'Dan': 185,
'Receptionist': 178,
'Overhead': 184,
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'Jim and Dwight': 185,
'Melissa': 184,
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'Abby': 185,
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'Edward R. Meow': 185,
'Chet': 185,
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'Linda': 184,
'Hank': 173,
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'I.D. Photographer': 185,
'Photographer': 182,
'Anglea': 185,
'Female worker': 185,
"Billy's Girlfriend": 185,
'Billy': 185,
'Dealer': 185,
'Bob': 179,
"Meredith's Vet": 185,
'Andy': 42,
'Karen': 160,
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'Ted': 185,
'Waiter': 178,
'Jim, Josh, and Dwight': 185,
'Evan': 185,
'Alan': 184,
'Ryan and others': 185,
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'Pretzel guy': 185,
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'Tony': 184,
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"Kelly's Father": 185,
'Young Man': 185,
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'Dwight:': 185,
'Martin': 184,
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'Michael & Dwight': 184,
'Andy & Michael': 184,
'Chef': 185,
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'Cindy': 185,
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'Andy and Michael': 185,
'Both': 178,
'Someone': 183,
'Harvey': 185,
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'Lady': 182,
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'Randy': 185,
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'Co-Worker 3': 185,
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'Andy, Creed, Kevin, Kelly': 185,
```

```
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'Officer 1': 185,
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'Officer': 185,
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'Margaret': 185,
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'Bill Cress': 185,
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'Cleaning lady': 185,
'Michael and Darryl': 185,
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'Woman on mic': 185,
'Graphics guy': 185,
'Brad': 185,
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'Holly': 169,
'Woman over speakerphone': 185,
'Vance Refrigeration guy': 184,
'Holy': 184,
'Co-workers': 185,
'Ronnie': 185,
'Professor': 185,
'Friend': 185,
'JIM9334 [screen name]': 185,
'Receptionitis15 [screen name]': 185,
'JIM9334': 185,
'Receptionitis15': 185,
'Michael & Holly': 184,
'Dight': 185,
'Kendall': 184,
'Michael [on phone]': 185,
'Pam [on phone]': 185,
'Man on phone': 184,
'Hank [the security guard]': 185,
'Guy in audience': 185,
'Michael and Holly': 185,
'Michael, Holly, and Darryl': 185,
'Tom': 183,
'Pete': 164,
```

```
'Holly & Darryl': 185,
'Holly & Michael': 185,
'Mother': 185,
'Alex': 185,
'Customer': 183,
'Kevin & Andy': 185,
'Stanley & Phyllis': 185,
'Stewardess': 185,
'Beth': 185,
'Concierge': 185,
'Marie': 185,
'Guy at table': 185,
'Concierge Marie': 185,
'Client': 183,
'Dacvid Walalce': 185,
'David Wallcve': 185,
'Dacvid Wallace': 185,
'Leo': 185,
'Vance Refrigeration Guy': 185,
'Police Officer 1': 185,
'Police Officer 2': 185,
'Guy buying doll': 185,
'Rehab Nurse': 185,
'Everyone watching': 185,
'Entire Prince family': 185,
'Prince Grandfather': 185,
'Entire office': 185,
'Prince': 185,
'Prince Granddaughter': 185,
'Prince Grandmother': 185,
'Prince Son': 185,
'Phyllis and Creed': 185,
'Lawyer': 184,
'CPR trainer': 185,
'CPR Trainer': 185,
'Rose': 185,
'Jessica Alba': 185,
'Lily': 185,
'Sam': 185,
'Warehouse Michael': 185,
'Julia': 185,
'A.J.': 185,
'Phone Salesman': 185,
'Jim, Pam, Michael and Dwight': 185,
'Blood Drive Worker': 185,
'Blood Girl': 185,
'Lynn': 183,
'Blonde': 185,
'Eric': 183,
'Girl': 183,
'Charles': 179,
'Stephanie': 183,
'Employees': 185,
'Isaac': 184,
'Angela and Kelly': 185,
'Supervisor': 185,
'Michal': 185,
'Nana': 185,
'Chares': 185,
'Old Woman': 184,
'Erin': 88,
'Dwight and Erin': 184,
'Dwight and Andy': 184,
'Michael, Pam & Ryan': 185,
```

```
'Secretary': 183,
'Automated phone voice': 185,
'Mr. Schofield': 185,
'Financial Guy': 185,
'Ty': 185,
'Jessica': 182,
'Vance Refrigeration Guy 1': 185,
'Vance Refrigeration Guy 2': 185,
'VRG 1': 185,
'VRG 2': 185,
'Rolph': 185,
'AJ': 184,
'Man from Buffalo': 185,
'Woman from Buffalo': 185,
'Dwight & Andy': 185,
'Female Intern': 185,
'Female intern': 185,
'Maurie': 185,
'Dwight, Jim & Pam': 185,
'Jim & Pam': 184,
'Megan': 184,
'Gwenneth': 185,
'Front Desk Clerk': 185,
'Mr. Halpert': 185,
'Mema': 185,
'Mr. Beesly': 185,
'Little Girl': 184,
'Penny': 185,
'Isabel': 184,
'Hotel Employee': 184,
'Hotel Manager': 185,
"Pam's mom": 185,
'Tom Halpert': 185,
'Pete Halpert': 185,
'Tom and Pete': 185,
"Pam's dad": 185,
'Grotti': 185,
'Andy and Dwight': 184,
'Credit card rep': 185,
'Rep': 185,
'Various': 184,
'Keena Gifford': 185,
'Helene': 181,
"David Wallace's Secretary": 185,
'Voice on CD player': 185,
'Limo Driver': 184,
'Laurie': 185,
'Registrar': 185,
'Security': 185,
'Woman in line': 185,
'Man in line': 185,
'Shareholder': 185,
'Female Shareholder': 185,
'Second Shareholder': 185,
'Third Shareholder': 185,
'Fourth Shareholder': 185,
"O'Keefe": 185,
'Mikela': 185,
'Students': 184,
'Teacher': 185,
'Lefevre': 185,
'Zion': 185,
'Deliveryman': 185,
'Michael and Erin': 185,
```

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'Daryl': 180,
'Office': 184,
'Kelly and Erin': 184,
'Matt': 184,
'Computron': 185,
'Fake Stanley': 185,
'Gabe': 139,
'Andy & Erin': 184,
'Christian Slater': 185,
'Jo Bennett': 185,
'Jo': 177,
'Jerry': 185,
'Teddy Wallace': 185,
'Mrs. Wallace': 185,
'Teddy': 185,
'Dwight, Jim and Michael': 185,
'Policeman': 185,
'Hospital employee': 185,
"(Pam's mom) Heleen": 185,
'Kathy': 181,
'Dale': 185,
'Clark': 166,
'Isabelle': 185,
'D': 185,
'Warehouse guy 1': 185,
'Warehouse guy 2': 185,
'Reid': 185,
'Night cleaning crew': 185,
'Meredith, Creed, Oscar and Matt': 185,
'Miichael': 185,
'Julie': 185,
'Hide': 181,
'Bar Manager': 185,
'Bouncer': 185,
'Girl at table': 185,
'Cookie Monster': 185,
'Dwight.': 185,
"Hayworth's waiter": 185,
"Oscar's voice from the computer": 185,
'Donna': 183,
'Michael and Donna': 185,
'Mihael': 185,
'Old lady': 185,
'Glen': 185,
'Gym Instructor': 185,
'Gym instructor': 185,
'Dwight and Angela': 185,
'Shane': 185,
'Reporter': 184,
'Realtor': 185,
'Luke': 185,
'Window treatment guy': 185,
'Angel': 185,
'Salesman': 184,
'Usher': 184,
'Shelby': 185,
'Sweeney Todd': 185,
'Mexican Man': 185,
'Son': 185,
'Nate': 176,
'Employees except Dwight': 185,
'Astrid': 185,
'Carroll': 185,
'Carrol': 185,
```

```
'Danny': 184,
'Steve': 185,
'Darryl and Andy': 185,
'Church congregation': 185,
'Pastor': 184,
'Female church member': 185,
'Male church member': 185,
'Female church member [to Michael]': 185,
'Doug [church member]': 185,
'Doug': 185,
'Mee-Maw': 185,
'MeeMaw': 185,
'Carla': 184,
"Jim's Dad": 185,
'Bus driver': 185,
'Michael and Andy': 185,
'Another guy': 185,
'Radio': 185,
'Cece': 183,
'TV': 185,
'Meridith': 185,
'Robotic Voice': 185,
'Ryan and Michael': 185,
'Phyliss': 185,
'Dwight & Nate': 185,
'Passer-by': 185,
'Bass Player': 185,
'Justine': 184,
'Jada': 184,
'Robert': 165,
'Darrly': 184,
'Member': 185,
'Video Michael': 185,
'Bookstore employee': 185,
'DJ': 185,
'David Brent': 184,
'Older guy': 185,
'Phyllis, Stanley, Dwight': 185,
'Younger Guy': 185,
'Older Woman': 185,
'Professor Powell': 185,
'Ryan and Kelly': 185,
'Helen': 185,
'Attendant': 185,
'Hot Dog Guy': 185,
'Cell Phone Sales Person': 185,
'Boom Box': 185,
'Andy and Erin': 185,
"Holly's Mom": 185,
"Holly's Dad": 185,
'Deangelo': 184,
'Deangelo/Michael': 185,
'Denagelo': 185,
"Darryl's sister": 185,
'DeAngelo': 184,
'Audience': 183,
'Together': 185,
'Erin and Kelly': 185,
'abe': 185,
'Rory': 185,
'DeAgnelo': 185,
'Jordan': 183,
'Dwight [on phone]': 185,
'Mose [on phone]': 185,
```

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'All but Oscar': 185,
'Darryl and Angela': 185,
'Fred Henry': 185,
'Fred': 185,
'Warren Buffett': 185,
'Warren': 185,
'Robert California': 184,
'Merv Bronte': 185,
'Merv': 185,
'Nellie Bertram': 185,
'Nellie': 153,
'Finger Lakes Guy': 185,
'Pam as fourth-biggest client': 185,
'Pam as ninth-biggest client': 185,
'Darryl & Oscar': 185,
'Tattoo Artist': 185,
'Female Applicant': 185,
'Male Applicant 1': 185,
'Male Applicant 2': 185,
'Gideon': 185,
'Bruce': 185,
'Dwight, Erin, Jim & Kevin': 185,
'Walter': 185,
'Ellen': 185,
'Walter Jr': 185,
'Andy & Walter': 185,
'Walter & Walter Jr': 185,
"Erin's Cell Phone": 185,
'Bert': 185,
'Gabe/Kelly/Toby': 185,
'Andy/Pam': 185,
'Andy/Stanley': 185,
'Val': 175,
'Warehouse Crew': 185,
'Cathy': 179,
'Offscreen': 185,
'Curtis': 185,
'Drummer': 185,
'Pam and Kelly': 185,
'Old Man': 185,
'Andy and Darryl': 185,
'Darryl and Kevin': 185,
'Park Ranger': 185,
'Chelsea': 185,
'Archivist': 185,
'Narrator': 185,
'Soldier': 184,
'Amanda': 185,
'Susan': 185,
'Andy/Oscar': 185,
"Bob's Secretary": 185,
'Mrs. California': 185,
'Host': 185,
'Queerenstein Bears': 185,
"Oscar's friend": 185,
'Stu': 185,
'Stonewall Host': 185,
'Meredith & Kelly': 185,
'Einsteins': 185,
'Senator Lipton': 183,
'Ernesto': 185,
'Officer Foley': 185,
'Andy, Darryl & Officer Foley': 185,
'Saleswoman': 185,
```

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'Emergency Operator': 185,
 'Paramedic': 185,
 'Donna Muraski': 185,
 'Wally Amos': 185,
 'Angela/Pam': 185,
 'Brandon': 184,
 'Blogger': 185,
 'Blogger 2': 185,
 'Lady Blogger': 185,
 'Patty': 185,
 'Old Lady': 185,
 'Others': 184,
 'Elderly Woman': 185,
 'Irene': 184,
 'Alonzo': 185,
 'Glenn': 183,
 'Erin and Irene': 185,
 'Kevin & Meredith': 185,
 'Lauren': 185,
 'Party quests': 185,
 'Magician': 185,
 'Ravi': 183,
 'Robert & Creed': 185,
 'Wrangler': 185,
 'Senator': 183,
 'Vet': 185,
 'Harry': 185,
 'Mr. Ramish': 185,
 'Calvin': 185,
 'Off-camera': 185,
 'Rafe': 185,
 'Fake Jim': 185,
 'Voicemail': 185,
 'Nellie and Pam': 185,
 'Group: Dunder Mifflin!\nAndy: Andy Bernard presents: Summer Softball Epic
Fails! [Kevin swings bat on screen, fart noise follows] Fail. [repeats] Fai
1': 185,
 '[repeats]\nAndy: Fail': 185,
 "[Clark and Pete are shown on screen]\nVideo Andy: Hey, I'm Pete, puberty i
s such a drag, man. And I'm Clark! I like to eat toilet paper. [Clark and Pe
te wave at camera] We fail! [Video shows memorial of Jerry": 185,
 'Phyllis, Kevin & Stanley': 185,
 'HCT': 185,
 'HCT Member #1': 185,
 'HCT Member #2': 185,
 'Broccoli Rob': 185,
 'Businessman #1': 185,
 'Businessman #2': 185,
 'Businessman #3': 185,
 'HCT Member #3': 185,
 'White': 185,
 'Boat Guy': 185,
 'Walt Jr.': 185,
 'Senator Liptop': 185,
 'Guys in breakroom': 185,
 'Business partner': 185,
 'Molly': 185,
 'Colin': 185,
 'Trevor': 184,
 'Julius Irving': 185,
 'New Instant Message': 185,
 'Suit Store Father': 185,
 'Athlead Employee': 184,
 'Dennis': 185,
```

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'Wade': 185,
'Suit Store Son': 185,
'Female Athlead Employee': 185,
'3rd Athlead Employee': 185,
'4th Athlead Employee': 185,
'Co-worker': 185,
'Co-worker #2': 185,
'Mr. Romanko': 185,
'Dance Teacher': 185,
'Ballerinas': 185,
'Parent in Audience': 185,
'Parent in audience #2': 185,
'Parent in audience #1': 185,
'Investor': 185,
'Lonnie': 185,
'Fast Food Worker': 185,
'Drive Thru Customer': 185,
'Brian': 181,
'Cameraman': 185,
'Rolf': 185,
'Gabor': 185,
'Zeke': 183,
'Melvina': 185,
'Wolf': 185,
'Sensei Ira': 185,
'Pam & Dwight': 185,
'Frank': 185,
'Party Announcer': 185,
'Party Guest': 185,
'Party Photographer': 185,
'Party Waiter': 185,
'Nail stylist 1': 185,
'Nail stylist 2': 185,
'Nail manager': 185,
'Shirley': 185,
'Athlead Coworker': 185,
'Roger': 185,
'Alice': 185,
"Oscar's Computer": 185,
'Jeb': 185,
'German Minister': 185,
'Fannie': 185,
'Henry': 185,
'Esther': 181,
'Aunt Shirley': 185,
'Cameron': 185,
'Promo Voice': 185,
'Ryan Howard': 185,
'Mr. Ruger': 185,
'Promo Announcer': 185,
'Ruger Sister 1': 185,
'Salesmen': 185,
'Ruger Sister 2': 185,
'Angela & Oscar': 184,
'Reporter #1': 185,
'Reporter #2': 185,
'Mrs. Davis': 185,
'Phillip': 184,
'Carla Fern': 185,
'Director': 185,
'Producer': 185,
'Bob Vance, Vance Refrigeration': 185,
'Production Assistant': 185,
'Sensei': 185,
```

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'Philip': 185,
'Check-in guy': 185,
'Casey': 185,
'Mark McGrath': 185,
'Jim & Dwight': 185,
'Camera Crew': 185,
'People in line': 185,
'Santigold': 185,
'Aaron Rodgers': 185,
'Clay Aiken': 185,
'CameraMan': 185,
'Malcolm': 185,
'Casey Dean': 185,
'Bill Hader': 185,
'Seth Mayers': 185,
'Dakota': 185,
'Stripper': 185,
'Jakey': 185,
'Man 1': 185,
'Woman 1': 185,
'Woman 2': 185,
'Man 2': 185,
'Moderator': 185,
'Man 3': 185,
'Woman 3': 185,
'Woman 4': 185,
'Joan': 185,
'Minister': 185,
'Carol Stills': 185}
```

Number of times "That's what she said" joke comes up

Include five examples of the joke

```
In [52]:
          target joke = "that's what she said"
           jokes = office data[office data.line text.apply(lambda x: target joke in x.l
           print(f"Number of times {target joke} comes up: {jokes.shape[0]}")
           jokes.sample(5)
           Number of times that's what she said comes up: 37
                                                                                speaker deleted
Out [52]:
                       id season episode scene
                                                                      line_text
                                                   No, no. I need two men on this.
                                        20
           15385 15386
                                                                                 Michael
                                                                                            False
                                                                  That's what ...
                                                    [in New York] That's what she
           24754
                  24755
                                         6
                                               27
                                                                                    Pam
                                                                                            False
                                                              said! That's wha...
                                                    And the best way to start is to
           18959
                   18960
                                         4
                                               45
                                                                                            False
                                                                                 Michael
                                                                 hit start. And...
           16405
                  16406
                                        22
                                               68
                                                            That's what she said!
                                                                                Everyone
                                                                                            False
                                                       [putting his shoes back on,
                                7
           44695 44696
                                        21
                                               51
                                                                                 Michael
                                                                                            False
                                                             talking to the cam...
```

The average percent of lines each character contributed each episode per season

In [62]: episode_to_character_line_freq

```
{(1, 1): {'Michael': 0.3592592592592593,
Out[62]:
           'Jim': 0.13703703703703704,
          'Pam': 0.17037037037037037,
           'Dwight': 0.12962962962962,
           'Jan': 0.04444444444444446,
           'Michel': 0.003703703703703704,
           'Todd Packer': 0.011111111111111112,
           'Phyllis': 0.007407407407407408,
           'Stanley': 0.018518518518518517,
           'Oscar': 0.022222222222222,
           'Angela': 0.018518518518518517,
           'Kevin': 0.007407407407407408,
           'Ryan': 0.037037037037037035,
           'Man': 0.003703703703703704,
           'Roy': 0.018518518518518517,
           'Documentary Crew Member': 0.01111111111111112},
          (1, 2): {'Michael': 0.3468013468013468,
           'Mr. Brown': 0.1750841750841751,
           'Jim': 0.11784511784511785,
          'Dwight': 0.13468013468013468,
          'Pam': 0.08754208754208755.
           'Oscar': 0.04377104377104377,
           'Kevin': 0.026936026936026935,
           'Toby': 0.006734006734006734,
           'Kelly': 0.006734006734006734,
          'Stanley': 0.016835016835016835,
           'Ryan': 0.02356902356902357,
           'Angela': 0.013468013468013467},
          (1, 3): {'Michael': 0.21296296296296297,
           'Pam': 0.13580246913580246,
          'Jim': 0.17592592592592593,
           'Dwight': 0.2716049382716049,
           'Stanley': 0.018518518518518517,
           'Oscar': 0.04938271604938271,
           'Kevin': 0.018518518518518517,
           'Angela': 0.015432098765432098,
           'Meredith': 0.009259259259259259,
           'Travel Agent': 0.0030864197530864196,
           'Man on Phone': 0.030864197530864196,
           'Ryan': 0.0030864197530864196},
          'Michael': 0.30833333333333333,
          'Stanley': 0.00555555555555556,
           'Pam': 0.102777777777777,
           'Phyllis': 0.013888888888888888,
           'Angela': 0.025,
           'Jim': 0.175,
           'Toby': 0.01944444444444445,
           'Oscar': 0.0555555555555555,
           'Meredith': 0.04166666666666664,
           (1, 5): {'Michael': 0.42948717948717946,
           'Dwight': 0.14423076923076922,
           'Jim': 0.08653846153846154,
          'Phyllis': 0.01282051282051282,
          'Pam': 0.05448717948717949,
          'Ryan': 0.02564102564102564,
           'Lonny': 0.016025641025641024,
           'Darryl': 0.05448717948717949,
           'Everybody': 0.00641025641025641,
```

```
'Stanley': 0.019230769230769232,
 'Oscar': 0.00641025641025641,
 'Kevin': 0.01282051282051282,
 'Angela': 0.019230769230769232,
 'Roy': 0.04166666666666664,
 'Teammates': 0.003205128205128205,
 'Michael and Dwight': 0.003205128205128205,
 'Warehouse worker': 0.00641025641025641,
 'Madge': 0.009615384615384616,
 'Worker': 0.016025641025641024,
 'Todd Packer': 0.02564102564102564,
 'Packer': 0.003205128205128205,
 'Warehouse Worker': 0.003205128205128205},
(1, 6): {'Jan': 0.018475750577367205,
 'Michael': 0.2956120092378753,
 'Dwight': 0.10161662817551963,
 'Pam': 0.11316397228637413,
 'Katy': 0.16859122401847576,
'Kevin': 0.016166281755196306,
'Ryan': 0.04849884526558892,
'Oscar': 0.0023094688221709007,
 'Toby': 0.03233256351039261,
 'Roy': 0.03233256351039261,
 'Jim': 0.15242494226327943,
'Stanley': 0.006928406466512702,
'Angela': 0.006928406466512702,
 'Kelly': 0.004618937644341801},
(2, 1): {'Michael': 0.345,
 'Jim': 0.105,
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'Dwight': 0.185,
'Stanley': 0.02,
 'Oscar': 0.01,
 'Kelly': 0.0225,
 'Phyllis': 0.0575,
 'Jan': 0.0225,
'Roy': 0.0175,
 'Kevin': 0.01,
 'Darryl': 0.0025,
 'Ryan': 0.005,
 'Angela': 0.01,
 'Guy at bar': 0.0025,
 'Other Guy at Bar': 0.0025,
 'Guy At Bar': 0.005,
 'Pam and Jim': 0.0025,
 'Everybody': 0.0025,
 'Employee': 0.0025,
"Chili's Employee": 0.0025,
 'Toby': 0.015,
'Waitress': 0.0075,
 'Manager': 0.025},
(2, 2): {'Michael': 0.34782608695652173,
 'Jim': 0.06832298136645963,
'Dwight': 0.037267080745341616,
'Todd Packer': 0.062111801242236024,
 'Ryan': 0.003105590062111801,
"Kevin's computer": 0.003105590062111801,
 'Pam': 0.12732919254658384,
'Toby': 0.08074534161490683,
'Darryl': 0.027950310559006212,
 'Roy': 0.043478260869565216,
 'Warehouse Guy': 0.003105590062111801,
 'Warehouse guy': 0.006211180124223602,
 'Warehouse guys': 0.003105590062111801,
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'Kevin': 0.027950310559006212,
 'Angela': 0.012422360248447204,
 'Stanley': 0.003105590062111801,
 'Meredith': 0.003105590062111801,
 'Phyllis': 0.018633540372670808,
 'Video': 0.006211180124223602,
 'Man in Video': 0.003105590062111801,
 'Actor': 0.006211180124223602,
 'Redheaded Actress': 0.003105590062111801,
 'Jan': 0.034161490683229816,
"Mr. O'Malley": 0.003105590062111801,
 'Albiny': 0.006211180124223602,
"Pam's Mom": 0.055900621118012424,
 'Oscar': 0.003105590062111801},
(2, 3): {'Michael': 0.2977667493796526,
 'Ryan': 0.01240694789081886,
 'Dwight': 0.21588089330024815,
 'Jim': 0.17866004962779156,
'Pam': 0.11166253101736973,
 'Kevin': 0.03225806451612903,
 'Oscar': 0.03225806451612903,
 'Angela': 0.019851116625310174,
 'Carol': 0.04466501240694789,
 'Bill': 0.004962779156327543,
 'Stanley': 0.007444168734491315,
 'Phyllis': 0.009925558312655087,
 'Meredith': 0.0024813895781637717,
 'Everyone': 0.0024813895781637717,
 'Crowd': 0.0024813895781637717,
 'Man': 0.01488833746898263,
 'Toby': 0.009925558312655087},
(2, 4): {'Pam': 0.07272727272727272,
 'Jim': 0.17402597402597403,
 'Michael': 0.2051948051948052,
 'Ryan': 0.12987012987012986,
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 'Oscar': 0.01038961038961039,
 'Angela': 0.046753246753246755,
 'Phyllis': 0.015584415584415584,
 'Kelly': 0.01038961038961039,
 'Stanley': 0.01818181818181818,
 'Meredith': 0.01038961038961039,
 'Kevin': 0.023376623376623377,
 'song': 0.0025974025974025974,
 'Song': 0.015584415584415584,
 'Roy': 0.015584415584415584,
 'Dwight and Michael': 0.007792207792207792,
 'Katy': 0.02857142857142857,
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(2, 5): {'Michael': 0.4225352112676056,
 'Pam': 0.07605633802816901,
 'Sherri': 0.030985915492957747,
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 'Jim': 0.08732394366197183,
 'Phyllis': 0.014084507042253521,
 'Oscar': 0.01971830985915493,
 'Angela': 0.03943661971830986,
 'Kevin': 0.005633802816901409,
 'Kelly': 0.008450704225352112,
 'Stanley': 0.014084507042253521,
 'Ryan': 0.0028169014084507044,
 'Creed': 0.07605633802816901,
 'Devon': 0.022535211267605635,
 'Children': 0.0028169014084507044,
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04/08/2022, 10:01 theOfficeAnalysis

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Fails! [Kevin swings bat on screen, fart noise follows] Fail. [repeats] Fai
1': 0.0031645569620253164,
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Additional Questions

Whose name is referred to most frequently in the lines?

```
In [85]: character to num lines referred = defaultdict(lambda: 0)
         def increment if referred(line text):
              for character in character names:
                  if character.lower() in line text.lower().split():
                      character to num lines referred[character] += 1
         def strip punctuations(text):
              punctuations = '''!()-[]{};:'"\,<>./?@#$%^&*_~'''
              for punc in punctuations:
                  text = text.replace(punc, " ")
              return text
         office data.line text.apply(lambda text: strip punctuations(text)).apply(
              lambda x: increment if referred(x),
                  None
Out[85]:
                   None
         2
                  None
         3
                  None
                  None
                   . . .
         59904
                  None
         59905
                  None
         59906
                  None
         59907
                  None
         59908
                  None
         Name: line text, Length: 59909, dtype: object
         sorted([(val, key) for key, val in character to num lines referred.items()])
In [86]:
```

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Draw a word cloud of the lines

```
In [95]:
         from wordcloud import WordCloud, STOPWORDS
          import matplotlib.pyplot as plt
In [90]:
         stopwords = set(STOPWORDS)
         wc = WordCloud(background color="white", max words=2000,
In [91]:
                         stopwords=stopwords, contour width=3, contour color='steelblu
In [92]: all_text = " ".join(office_data.line_text)
         wc.generate(all text)
         <wordcloud.wordcloud.wordCloud at 0x7ffd11faaf40>
Out[92]:
In [103... # show
         plt.imshow(wc, interpolation='bilinear')
         plt.axis("off")
          (-0.5, 399.5, 199.5, -0.5)
Out[103]:
 In [ ]:
```