



What's With THAT Name?!

Baby Name Popularity Predictor

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Why a name popularity predictor?



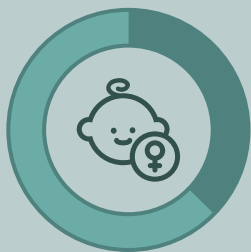
STRENGTHS

- People with easier-to-pronounce names often have higher status positions at work (NYU, 2011)
- People with common names are more likely to be hired (Marquette University)
- Women with gender-neutral names are more likely to succeed in male-dominated fields like STEM and law (Atlantic, 2014)
- Men with shorter first names are overrepresented in the c-suite (LinkedIn, 2011)

WEAKNESSES

- Uncommon names are associated with juvenile delinquency (Shippensburg U, 2009)
- Boys with “girl’s names” are more likely to be suspended from school (UoF, 2005)
- Roughly 11 percent of parents experience baby name remorse (BabyCenter) –one reason? It got too popular

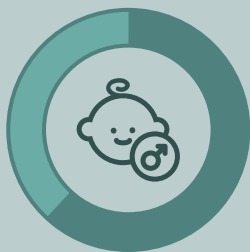
The DATA – US Social Security



68905

1880-2020

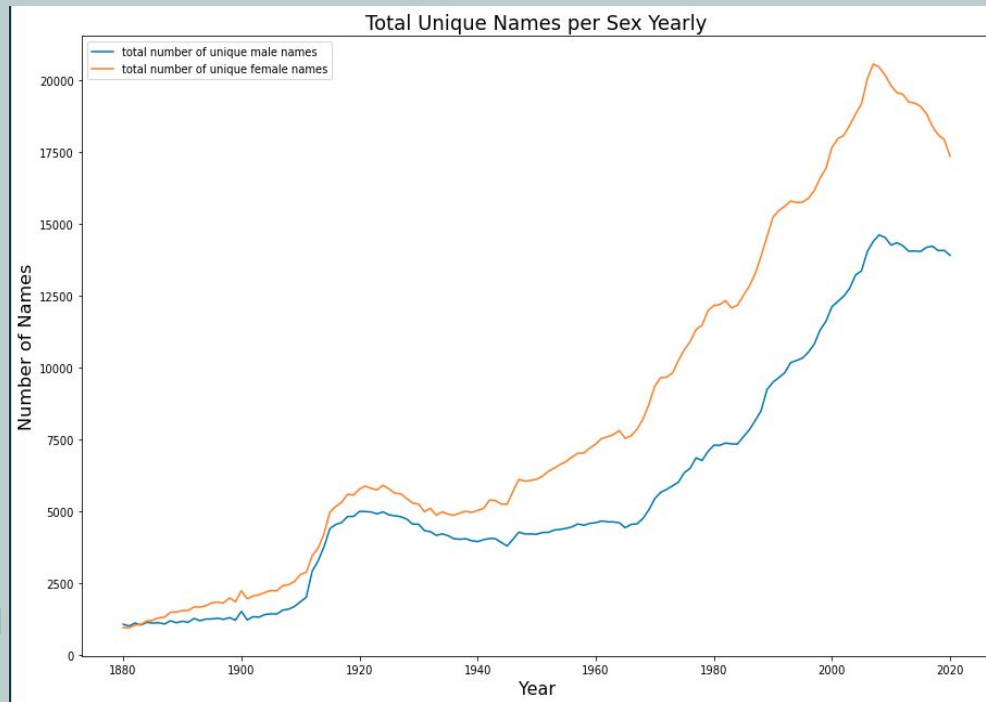
At least 5 registered
in a year



42567

1880-2020

At least 5 registered
in a year



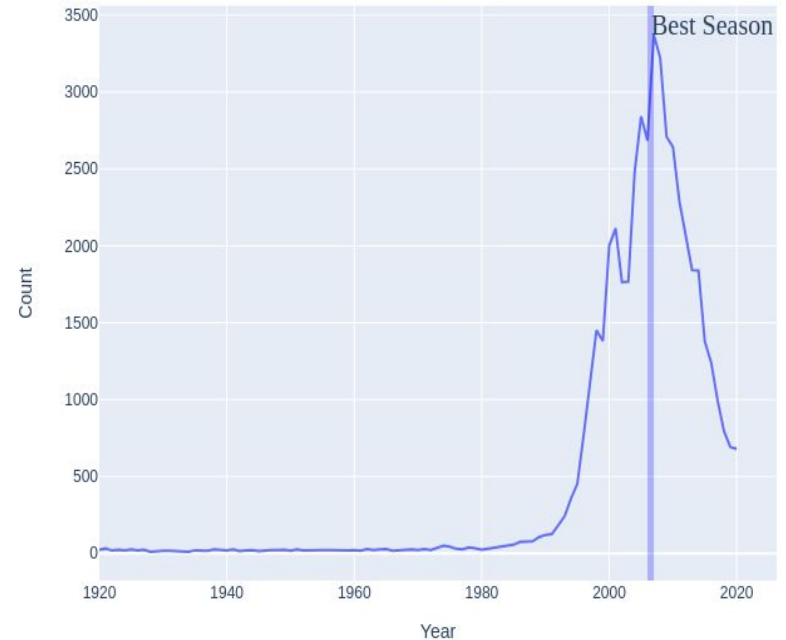
Pop Culture Effects?



Could he have caused the spike?



Trends for the Name Peyton



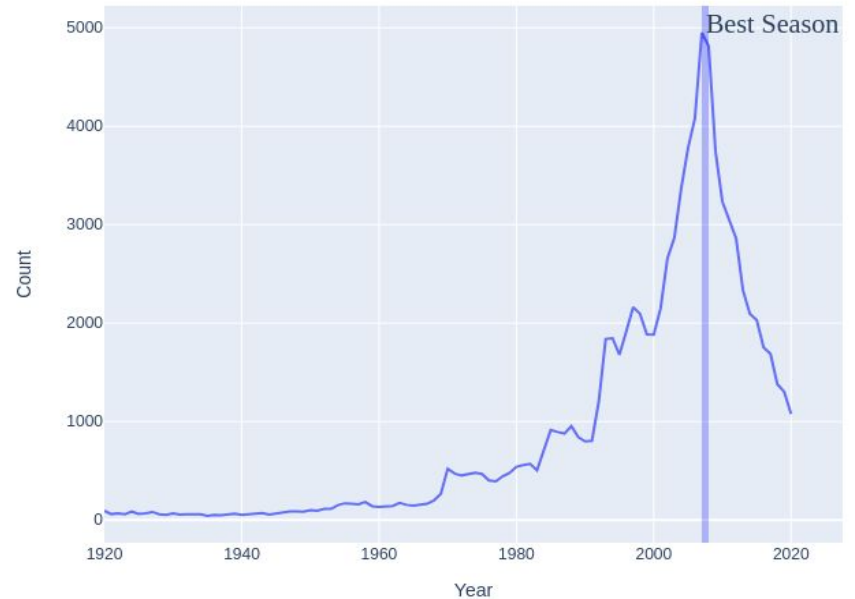
Pop Culture Effects?

And then there's this guy...

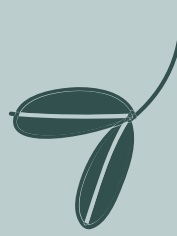


<https://www.wfla.com/sports/buccaneers/tom-brady-giving-bucs-fan-who-retired-60-0th-td-a-bitcoin/>

Trends for the Name Brady



Pop Culture Effects?



Not to be outdone by the fellas...



<https://www.forbes.com/profile/serena-williams/?sh=2830d0f44e48>

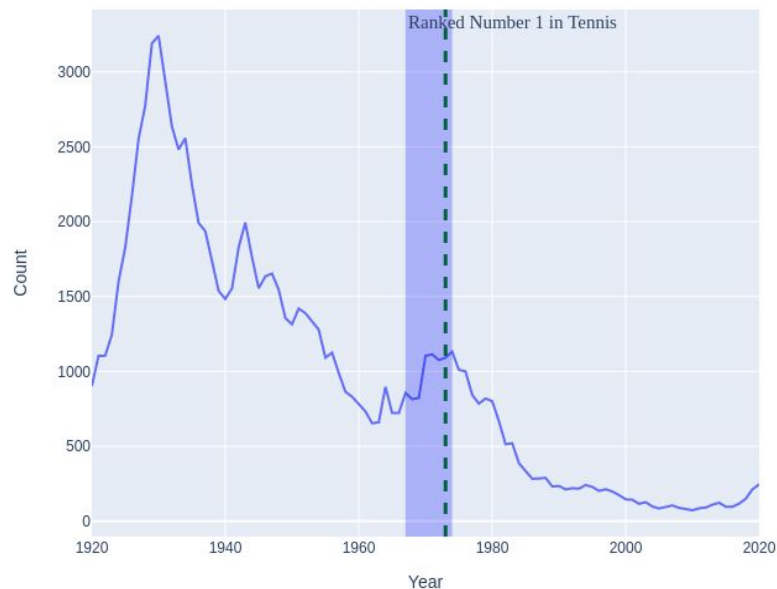
'Trends for the Name Serena



Pop Culture Effects?



Trends for the Name Billie



Worldwide TV Audience of over 90 Million

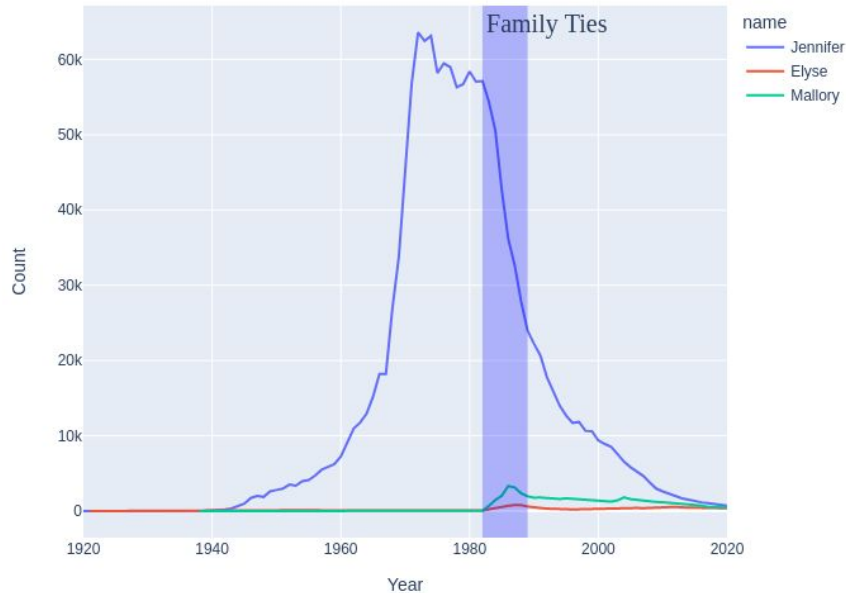


Pop Culture Effects?

One third of all households watched the show....



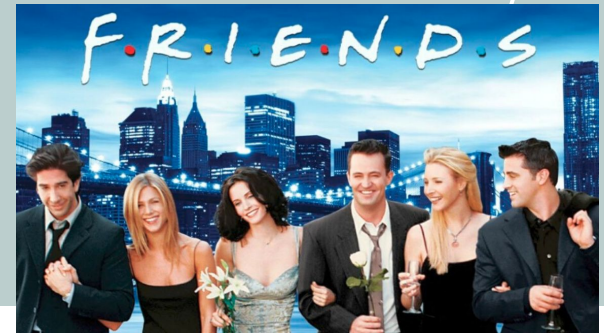
'Trends for the Female Names in 'Family Ties'



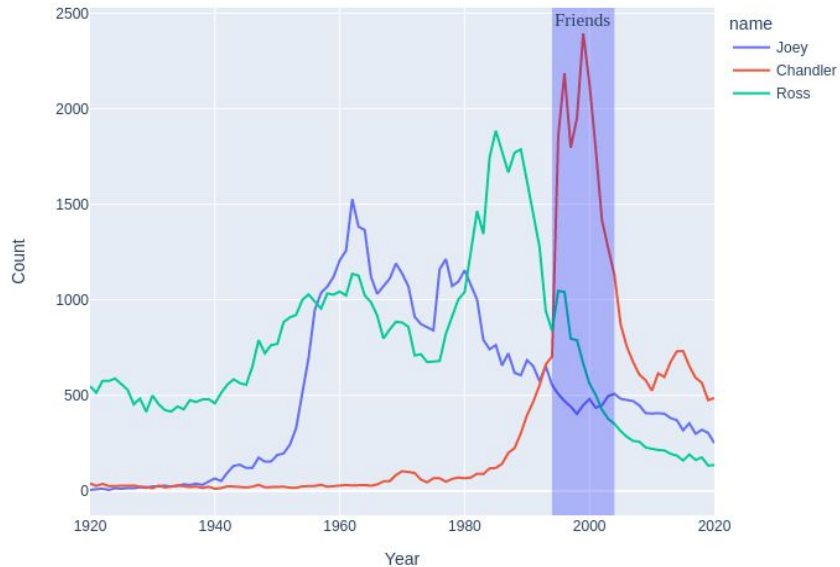
'Trends for the Male Names in 'Family Ties'



Pop Culture Effects?



Trends for the Male Names In Friends



Trends for the Female Names In Friends

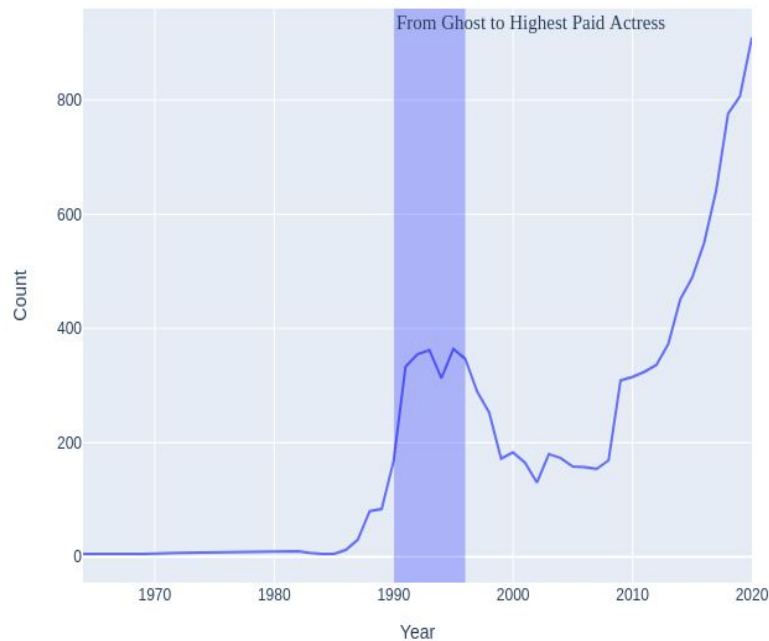


Pop Culture Effects?

- Breakthrough role in “Ghost” (Highest Grossing Film of 1990)
- “A Few Good Men” (1992)
- “Indecent Proposal” (1993)
- “Disclosure” (1994)
- “Striptease” (1995)-highest paid actress in film history
- Movie bombs :
 - “The Scarlet Letter” (1995)
 - “The Juror” (1996)
 - “G.I. Jane” (1997)



Trends for the Name Demi



Model Data – Popular Names



1058

1920-2020

At least 825 counts
in one year



649

1920-2020

At least 993 counts
in one year

Set narrowed:

*at least 10 years of popular counts

FINAL SET FOR MODEL



751



484



1235

MODEL PERFORMANCE



**Baseline
Prediction**

Last count of name



50.2 %

Outperformed baseline
in 50.2 percent of
female names



57.6 %

Outperformed baseline
in 57.6 percent of male
names

Recommendations

We were limited by processing power and data storage limitations:

- Grab larger set of names to examine and model
- Include cultural/ethnic/locational data
- Include exogenous trends and events to assist model





Name Popularity Predictor App



<https://share.streamlit.io/nasimmosley/capstone-submission/finalbabyapp.py>



THANKS!

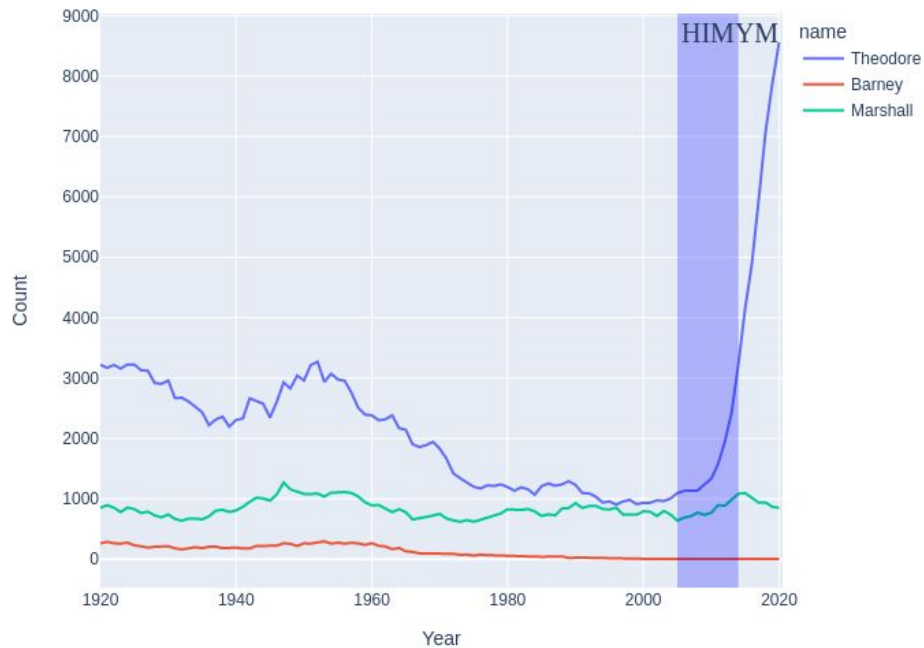
DOES ANYONE HAVE ANY QUESTIONS?

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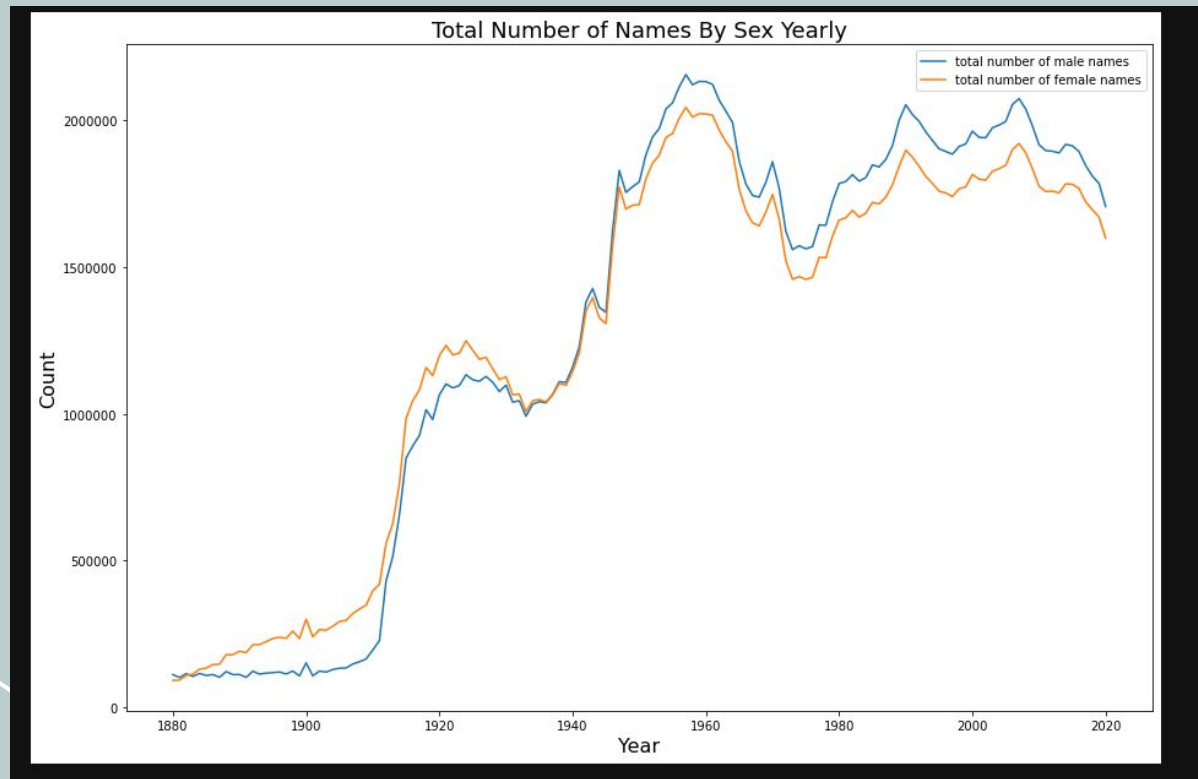


Pop Culture Effects.

'Trends for the Male Names in 'How I Met Your Mother'



Additional Slides



Additional Slides

