

cities4me

Div Vats

Which cities should I visit?



Which cities should I visit?

Pacific Ocean

Arctic Ocean

Atlantic
Ocean

Pacific Ocean

Pacific Ocean

Atlantic

Indian
Ocean

Can I search based on my interests?



(all territorial claims are held in abeyance under the 1959 Antarctic Treaty)

Overview of Algorithm

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North America > United States of America > Mid-Atlantic > New York (state) > Metro New York > New York City



New York City is a *huge city* with several *district* articles that contain information about specific sights, restaurants, and accommodation.

One of the world's great cities, **New York City** (also referred to as "New York", "NYC", or "The Big Apple") is a global center for media, entertainment, art, fashion, research, finance, and trade. The bustling, cosmopolitan heart of the 4th largest metropolis in the world and by far the most populous city in the United States, New York has long been a key entry point and a defining city for the nation.

From the Statue of Liberty in the harbor to the Empire State Building towering over the Manhattan skyline, from the tunnels of the subway to the skyscrapers of Wall Street, from the bright signs of Times Square to the naturalistic beauty of Central Park, and from Yankee Stadium in the Bronx to Coney Island in Brooklyn, New York's landmarks are quintessential American landmarks. The city's neighborhoods and streets are so iconic they have become ingrained into the American consciousness. Here the power, wealth and culture of the United States is on full display in one of the largest and most iconic skylines in the world, in the food and music to be found around every corner, and in the diverse population of immigrants who come from every corner of the globe to take part in what this city has to offer.

Lying at the mouth of the Hudson River in the southernmost part of the state of the same name and at the center of the Mid-Atlantic region, New York City has a population of approximately 8.2 million people. The New York Metropolitan Area, which spans lower New York, northern New Jersey, and southwestern Connecticut, has a population of 18.9 million, making it the largest



Manhattan skyline

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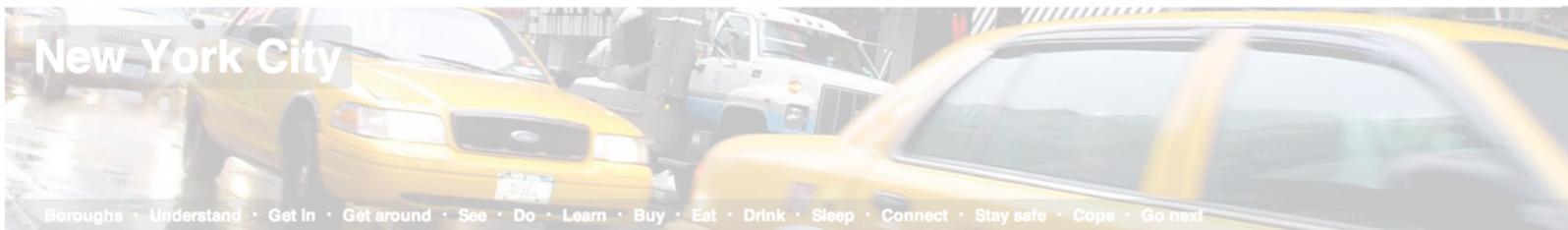
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Extracted data from 8294 guide books from cities all over the world

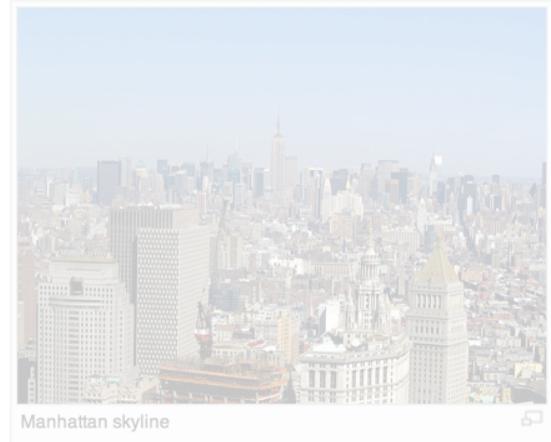


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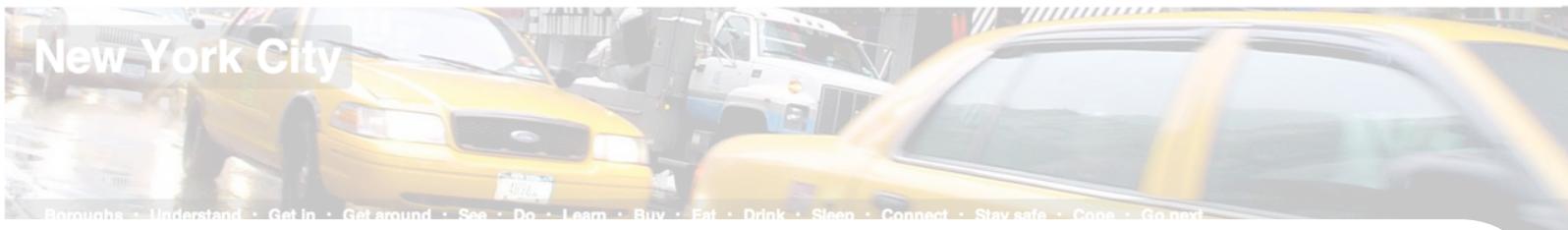
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[New York City with children](#)

Related sites

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from cities all over the world



“beach”



“beach” and
“related words”



Ranked list
of cities

center of the Mid-Atlantic region, New York City has a population of approximately 8.2 million people. The New York Metropolitan Area, which spans lower New York, northern New Jersey, and southwestern Connecticut, has a population of 18.9 million, making it the largest

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“beach”



“beach” and
“related words”



Ranked list
of cities

nontrivial

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Topic Modeling: Latent Dirichlet Allocation (LDA)



LDA



guide books

Topic Modeling: Latent Dirichlet Allocation (LDA)



LDA

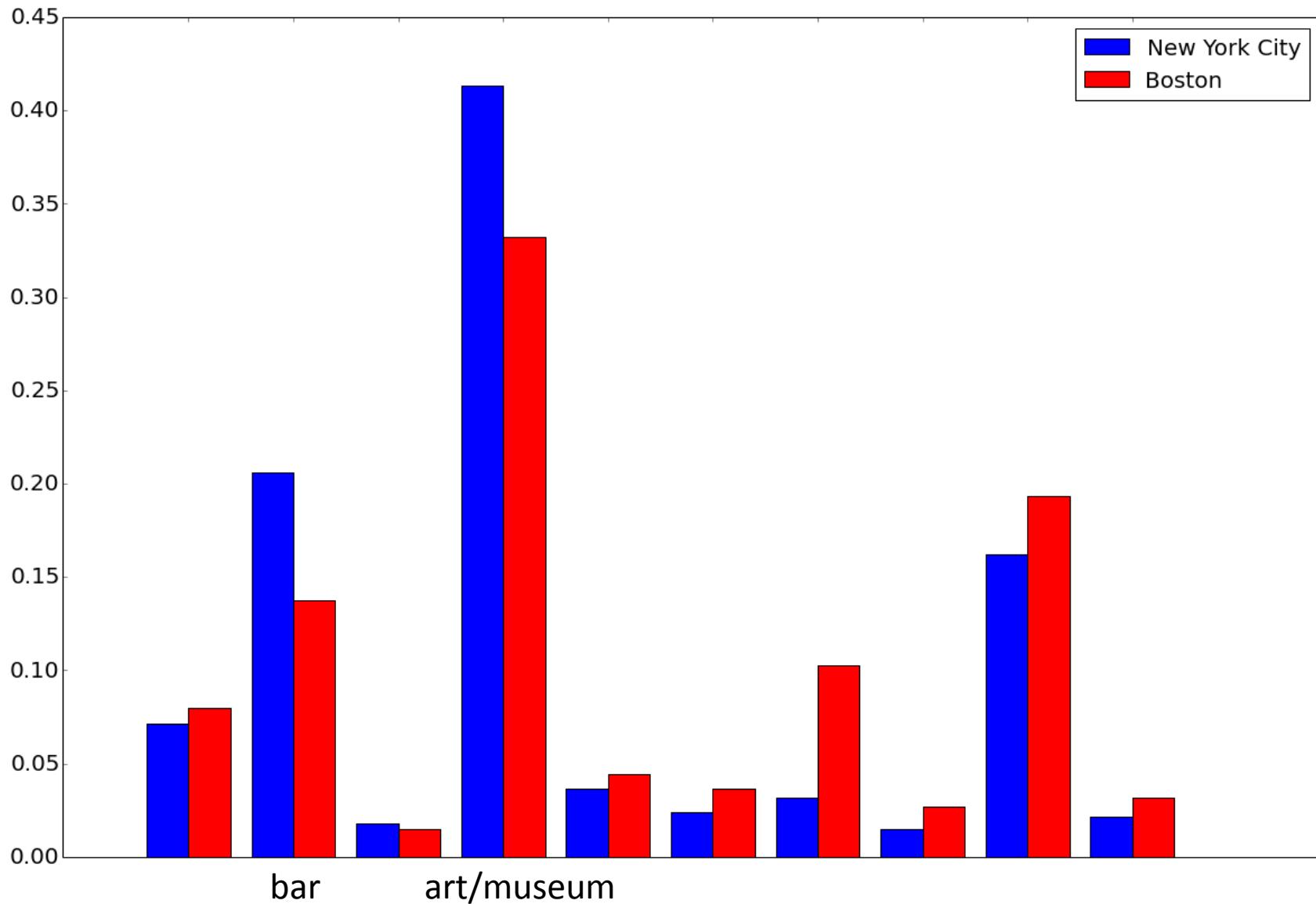


guide books

- 1 beach island boat sea water dive
- 2 town centre pub walk house open
- 3 park golf state center trail open
- 4 temple place park large famous
- 5 art museum park center building
- 6 bar night beer music club drink
- 7 local walk tour good small hour
- 8 church museum century building
- 9 museum town place open wine
- 10 lake mountain river trail hike town

$$P(\text{word}) = \sum_{k=1}^K P(\text{word}|T_k)P(T_k)$$

LDA allows us to compare cities!



Main Algorithm

“beach”

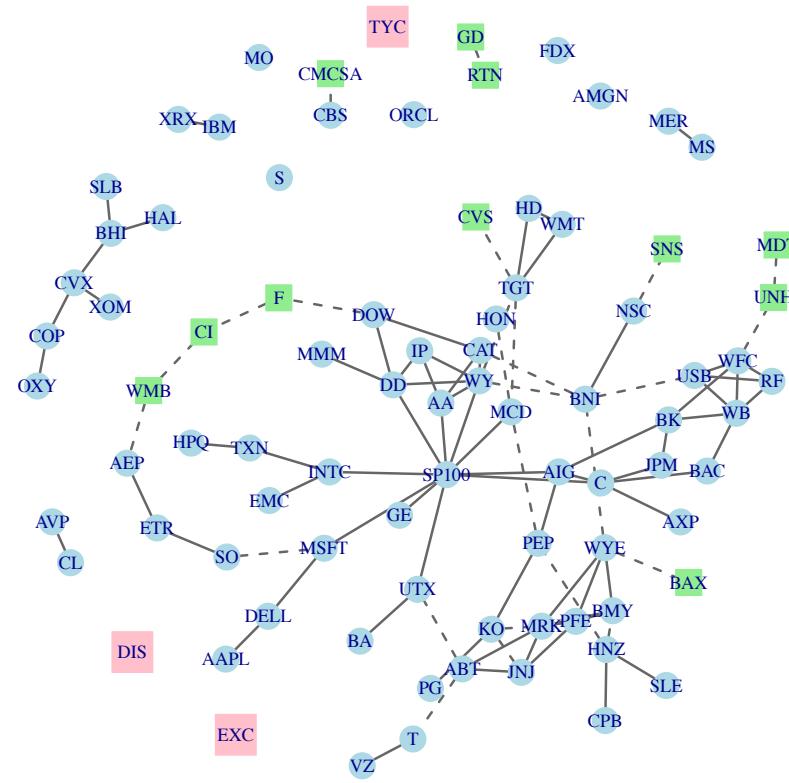
Ranked list
of cities


$$(\#\text{words}) \sum_{k=1}^K P(\text{beach}|T_k)P(T_k) + (\#\text{beach})$$

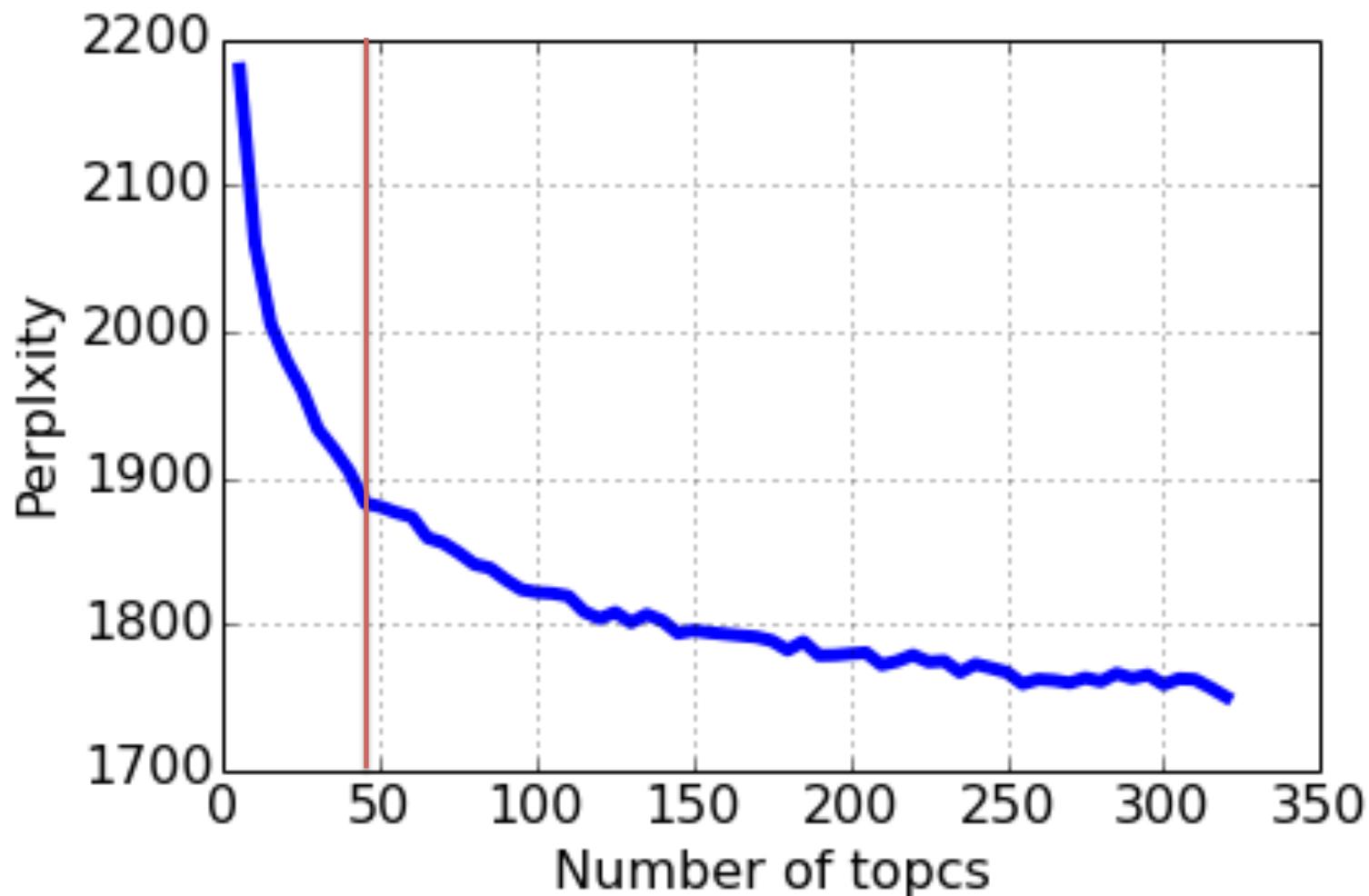
Div Vats

Machine Learning Research @ CMU and Rice

- 1) Graphical models
 - 2) Sparse regression
 - 3) Machine Learning for personalized education



Selecting Number of Topics



Handling Multiple Keywords

City	Rank (beach)	Rank (snorkeling)	Score (combined)	Final Rank
Sydney	1	2	3	1
San Diego	2	3	5	2
San Francisco	3	4	7	4
Mykonos	4	5	9	5
Cozumal	5	1	6	3