The Persuasive Power of Words

Problem Statement

We are constantly communicating to get our ideas across, at work and at home.

The question is, what words should we use to persuade others to agree with our viewpoints? And what words make someone appear unconvincing.

Persuasive, Inspiring and Unconvincing?

I want to start a mobile school that visits such villages around the year, camps there for a few months & we teach both children & grown ups. Curriculum would include not only basic education but also vocational training, so people can work/earn their living & can fight poverty. Mobile schoolsworkshops

EVALUATE TEXT

This text is

is not
persuasive

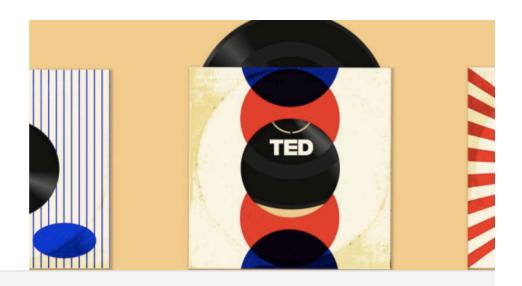
is
inspiring
is not
unconvincing

Dataset

12 great TED Talks you've probably never seen before

We have 3,000+ TED Talks and counting — sometimes things get a little buried. Here are some gems we surfaced just for you.

Learn more





The inside story of the Paris climate agreement



What it's like to have Tourette's -- and how music gives me back control



Stunning buildings made from raw, imperfect materials



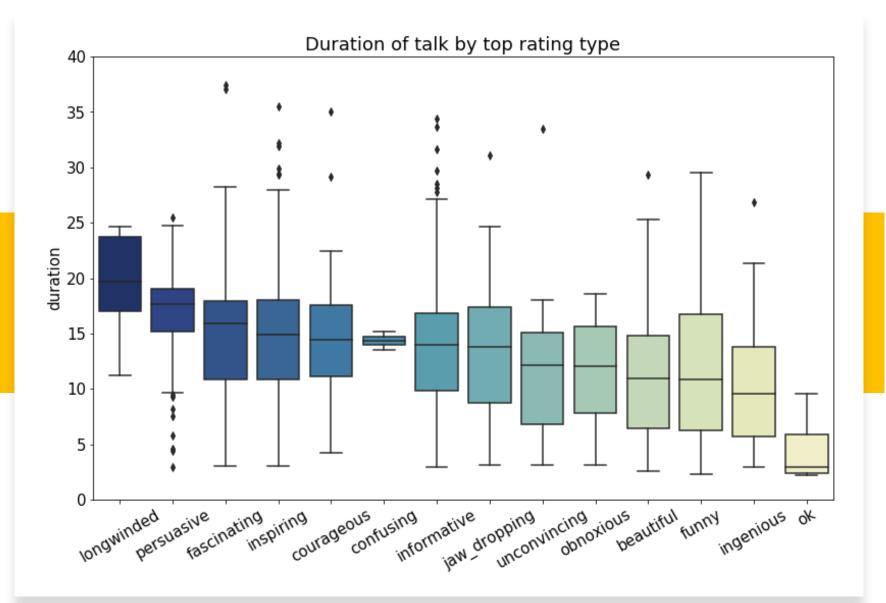
What I learned from spending 31 days underwater



How to start a conversation about suicide



How the Panama P journalists broke th biggest leak in hist



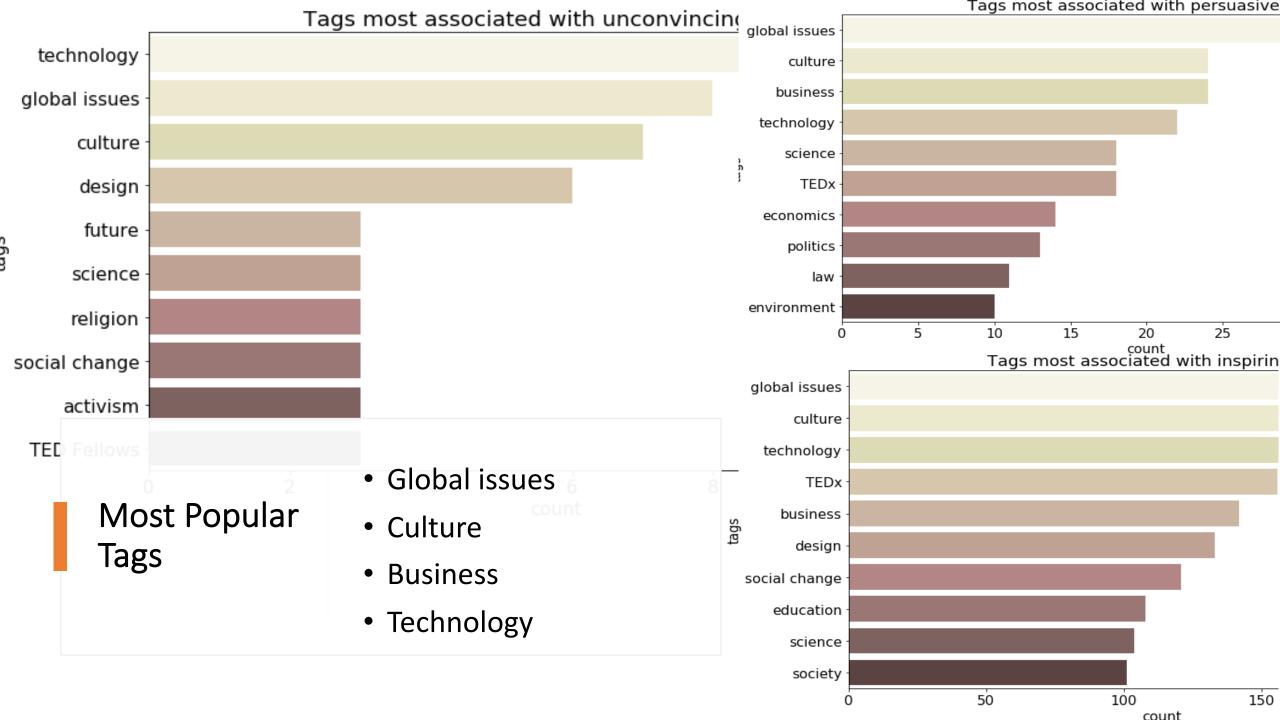
Duration of talks by rating type

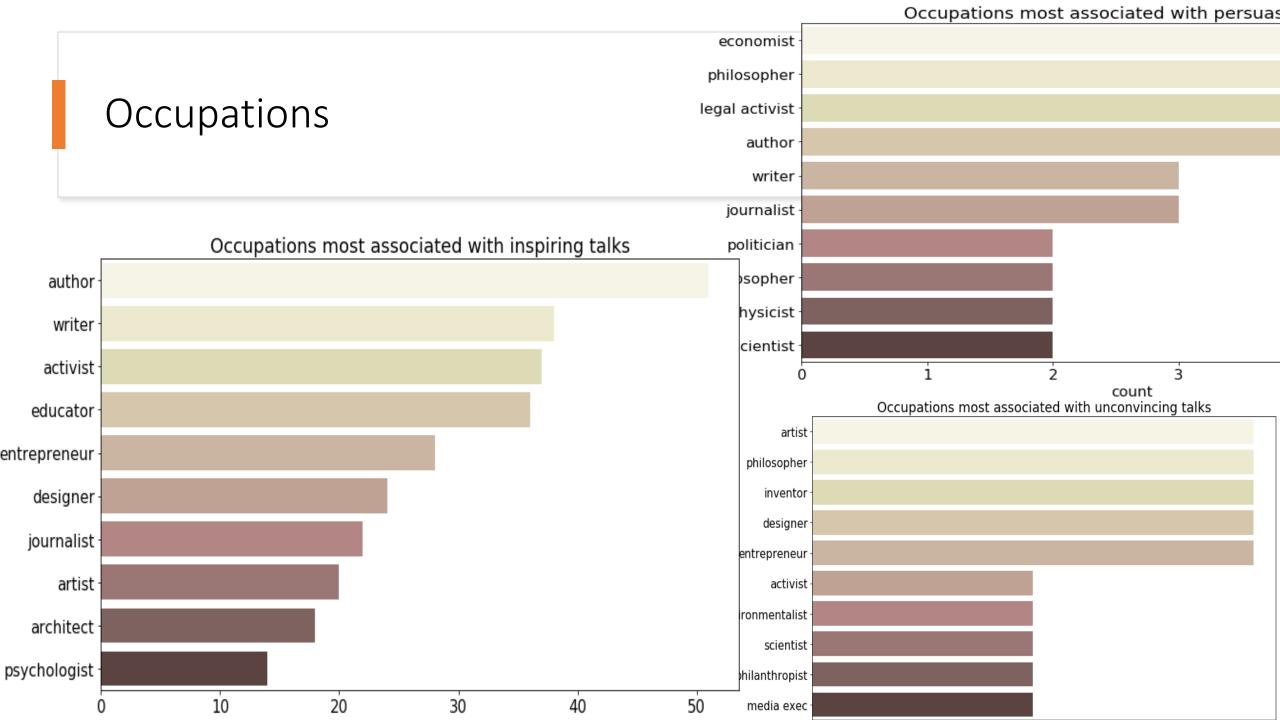
Persuasive and Inspiring Words

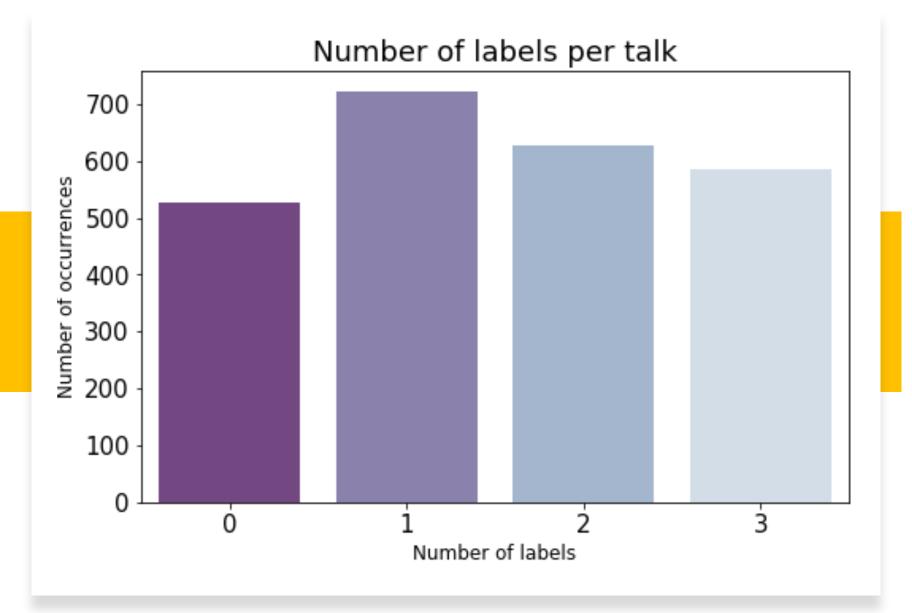


Persuasive Inspiring

Venn Diagram – overlapping words in persuasive and inspiring talks







Number of talks and number of labels per talk

Multilabel Classification Results

Baseline Accuracy:

• Persuasive: 0.502

• Inspiring: 0.502

• Unconvincing: 0.511

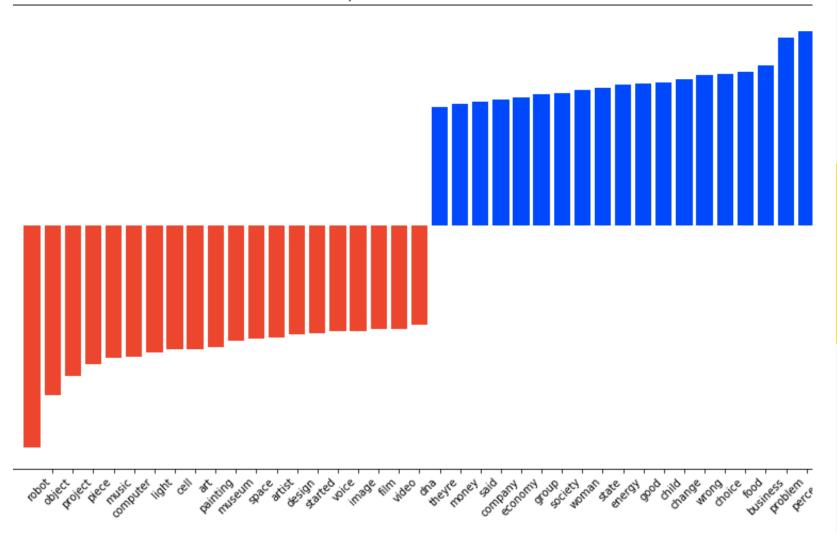
Support Vector Machine

Processing persuasive_label
Train accuracy: 0.9168184578020644
Test accuracy: 0.6933497536945813
Processing inspiring_label
Train accuracy: 0.9222829386763813
Test accuracy: 0.6564039408866995
Processing unconvincing_label
Train accuracy: 0.9398907103825137
Test accuracy: 0.6896551724137931

Logistic Regression

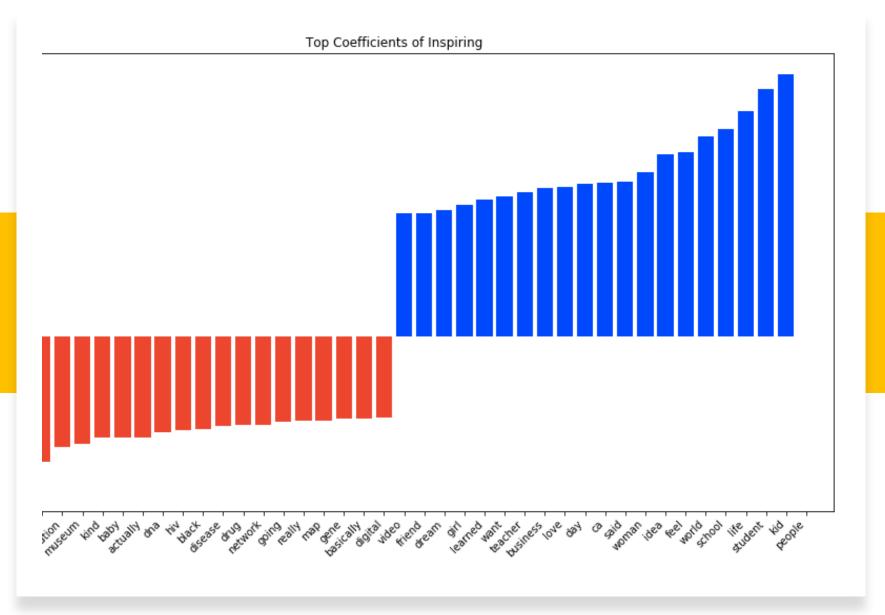
Processing persuasive_label
Train accuracy: 0.8384942319368549
Test accuracy: 0.6490147783251231
Processing inspiring_label
Train accuracy: 0.8324225865209471
Test accuracy: 0.5825123152709359
Processing unconvincing_label
Train accuracy: 0.8907103825136612
Test accuracy: 0.6613300492610837

Top Coefficients of Persuasive



Persuasive Top Coefficients

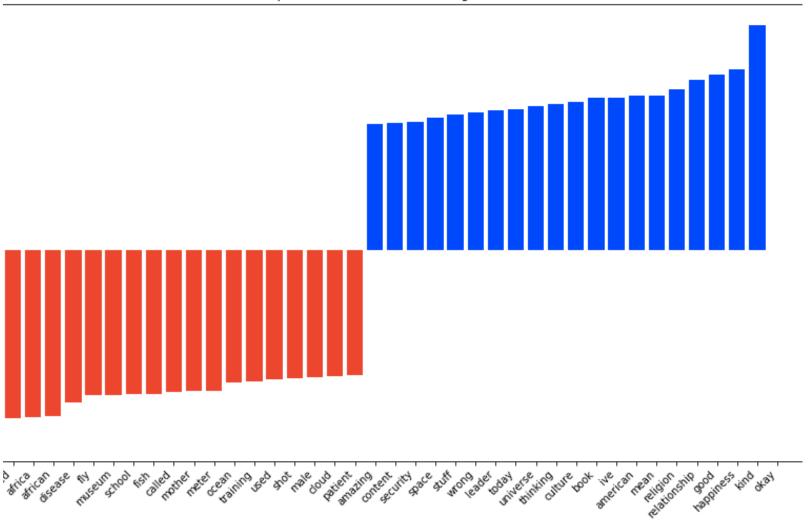
- kid
- percent
- problem
- business
- food



Inspiring Top Coefficients

- people
- kid
- student
- life
- school

Top Coefficients of Unconvincing



Unconvincing Top Coefficients

- okay
- kind
- happiness
- good
- relationship

Limitations





Add more variables e.g. occupation, duration of talk, gender, audience response, body language

Use more business-related data

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persuasively.herokuapp.com

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