

WHAT TO VISIT NEXT?

AN EXPLORATION IN THE UNIVERSE OF TED TALKS

YOUR PILOT: MAN LIANG

THE "TED" UNIVERSE

Technology, **E**ntertainment and **D**esign

+ Business, Science, Global Issues, etc.

"Ideas worth spreading"



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Related tags

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THE "TED" UNIVERSE

Technology, Entertainment and Design

+ Business, Science, Global Issues, etc.

"Ideas worth spreading"

Topics

A-B

C

D-E

F-H

I-L

M-N

O-R

S

T-Z

Activism	Animation	Augmented reality	Biosphere
Addiction	Antarctica	Autism spectrum disorder	Biotech
Adventure	Anthropocene	Bacteria	Birds
Advertising	Anthropology	Beauty	Blindness
Africa	Ants	Bees	Blockchain
Aging	Apes	Behavioral economics	Body language
Agriculture	Archaeology	Big bang	Book
AI	Architecture	Big problems	Books
AIDS	Art	Biodiversity	Botany
Aircraft	Arts	Bioethics	Brain
Algorithm	Asia	Biology	Brand
Alternative energy	Asteroid	Biomechanics	Brazil
Alzheimer's	Astrobiology	Biomimicry	Buddhism
Ancient world	Astronomy		Bullying
Animals	Atheism		Business

Related tags

TEDx

Choice

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Decision-Making

Illusion

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Psychology

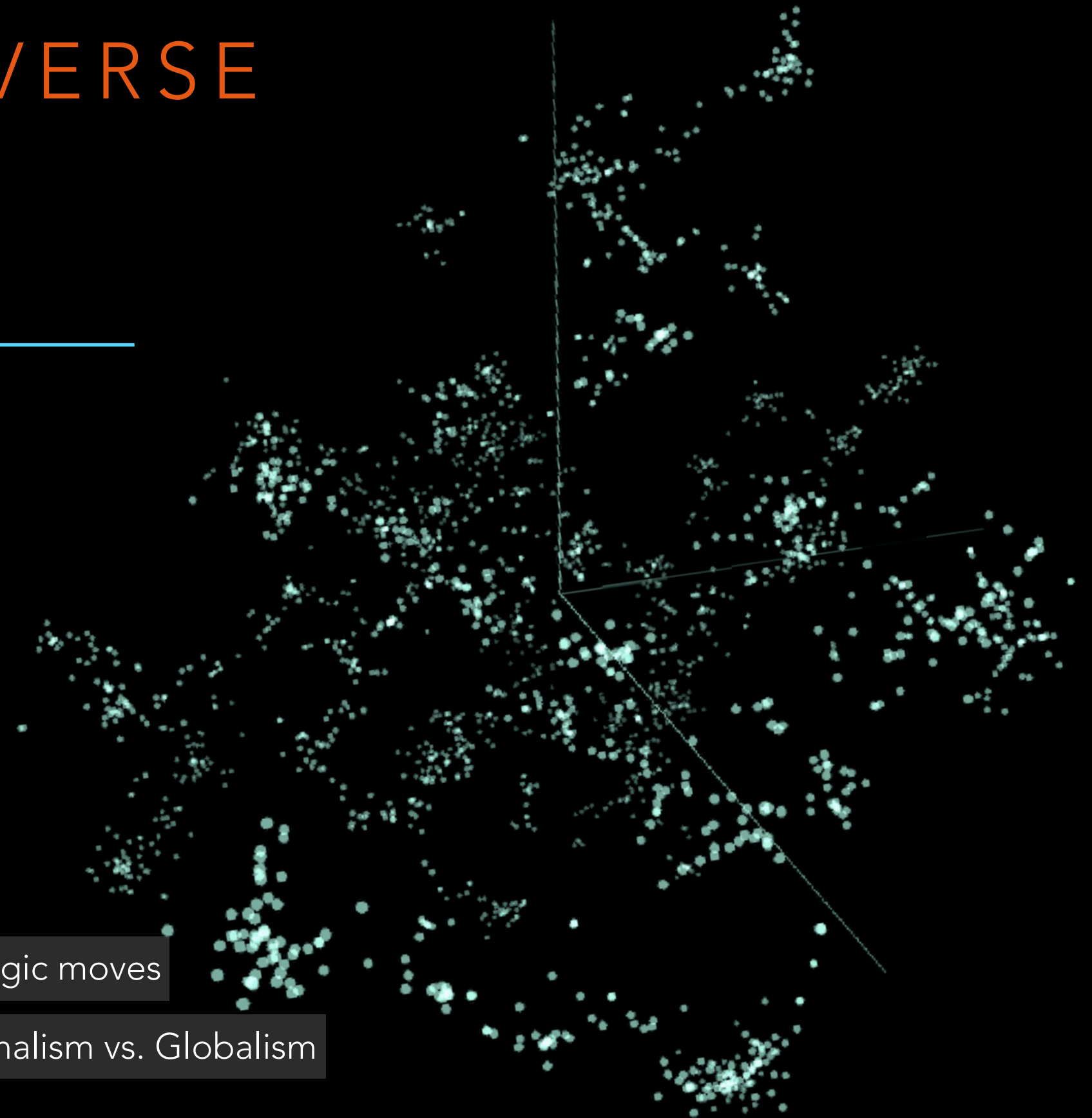
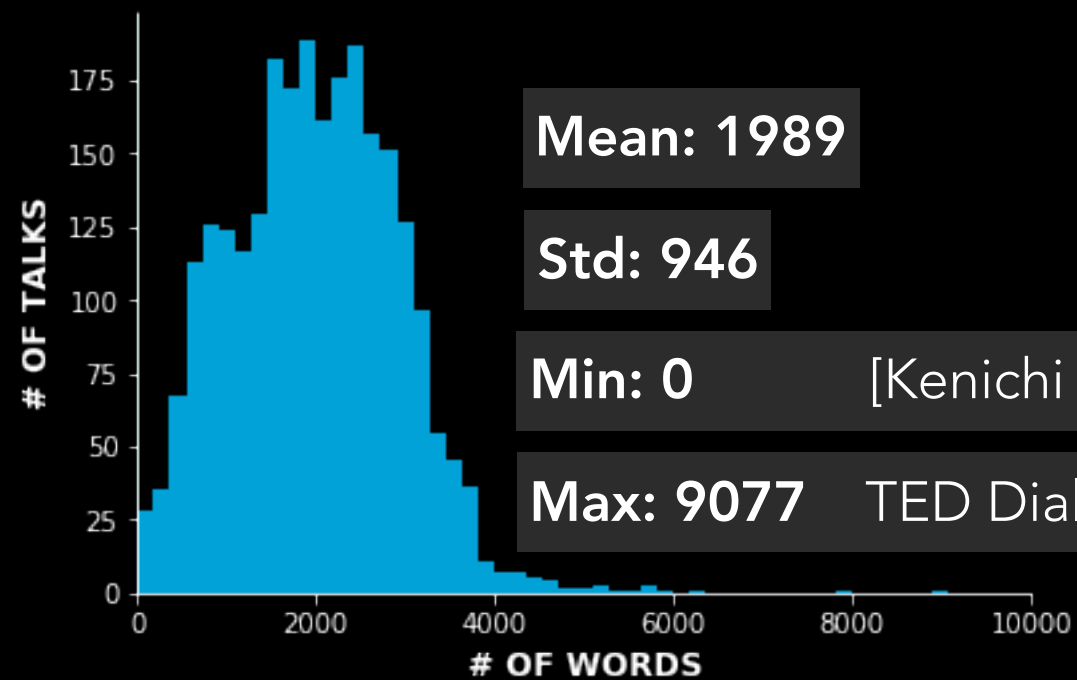
Self

A MAP OF THE GALAXIES?

THE "TED" UNIVERSE

2524 FULL TRANSCRIPTS
(KAGGLE + TED.COM)

WIDE RANGE OF LENGTH



PREPARATION

CLEAN-UP

Good morning. How are you?
(Laughter)It's been great, hasn't
it? I've been blown away by the
whole thing. In fact, I'm leaving.
(Laughter)There have been three
themes running through the
conference which are relevant to
what I want to talk about. One is
the extraordinary evidence of
human creativity in all of the
presentations that we've had and
in all of the people here.
...

LOWERCASE

REMOVE

audience reaction
non-alphabetic characters

ADD

missing spaces

LEMMATIZE

it been great hasnt it. ive been
blown away by the whole thing. in
fact im leaving. there have been
three theme running through the
conference which are relevant to
what i want to talk about. one is
the extraordinary evidence of
human creativity in all of the
presentation that weve had and in
all of the people here.
...

PREPARATION

VECTORIZE

• Count Vectorizer → [2524 × 2000]

n_features = 2000 (1000~2000)

max_df = 0.3 (0.1~0.99)

min_df = 5 (1~20)

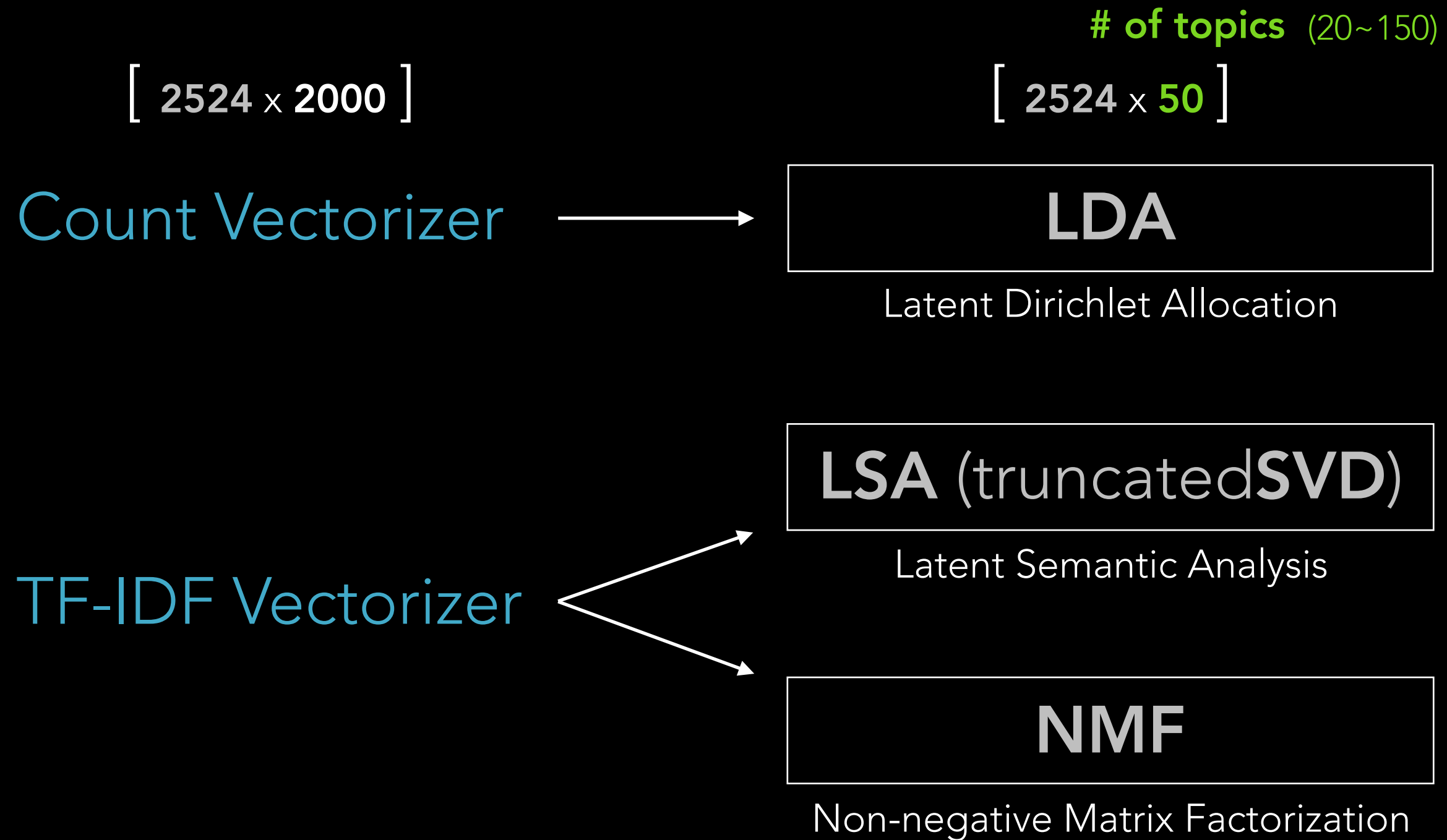
n_gram = 1 (1~3)

+

**customized
stop-word list**

• TF-IDF Vectorizer → [2524 × 2000]

DIMENSION REDUCTION



DIMENSION REDUCTION

TOPIC COHERENCE SCORE



~ mean(pairwise cosine similarity)

WORD2VEC

Score	Topic Example
0.80	girl boy father daughter parent sister mother village brother
0.57	city design cancer patient cell car architecture street neighborhood space
0.46	space refugee project oil song choice water election voice fly

0.60

NMF

0.51

LSA

0.68

LDA

DIMENSION REDUCTION

K-Means



LDA



LSA



NMF

RECOMMENDER

Sample talk: A prosthetic arm that "feels"

TED.COM

LDA

NMF

LSA

RECOMMENDER

Sample talk: A prosthetic arm that "feels"

TED.COM

My 12 pairs of legs

Luke, a new prosthetic arm for soldiers

The potential of regenerative medicine

The mystery of chronic pain

The emotion behind invention

3 clues to understanding your brain

LDA

The new bionics that let us run, climb and dance

The rise of personal robots

My simple invention, designed to keep my grandfather safe

A robot that runs and swims like a salamander

How a fly flies

Simple hacks for life with Parkinson's

NMF

A science award that makes you laugh, then think

The riddle of experience vs. memory

How to get (a new) hip

Strange answers to the psychopath test

On the virtual dissection table

My son was a Columbine shooter. This is my story

LSA

The emotion behind invention

Luke, a new prosthetic arm for soldiers

The sore problem of prosthetic limbs

3 clues to understanding your brain

My wish: Three unusual medical inventions

There are no scraps of men

RECOMMENDER

Sample talk: Averting the climate crisis

TED.COM

New thinking on the climate crisis
The business logic of sustainability
The state of the climate — and what we might do about it
A climate solution where all sides can win
Climate change is happening. Here's how we adapt
Why climate change is a threat to human rights

LDA

How behavioral science can lower your energy bill
Better toilets, better life
What I discovered in New York City trash
No roads? There's a drone for that
The magic washing machine
Transition to a world without oil

NMF

A clean energy proposal -- race to the top!
My solar-powered adventure
High-altitude wind energy from kites!
A critical look at geoengineering against climate change
A climate solution where all sides can win
A small country with big ideas to get rid of fossil fuels

LSA

A climate solution where all sides can win
New thinking on the climate crisis
Why climate change is a threat to human rights
Salvation (and profit) in greentech
Climate change is happening. Here's how we adapt
A critical look at geoengineering against climate change

RECOMMENDER

Sample talk: My year of saying yes to everything

TED.COM

Your elusive creative genius
How to use data to make a hit TV show
Should you live for your résumé ... or your eulogy?
How to find a wonderful idea
Fashion and creativity
Play is more than just fun

LDA

Fiddling in reel time
On tennis, love and motherhood
A hilarious celebration of lifelong female friendship
Please don't take my Air Jordans
An ode to envy
One woman, five characters, and a sex lesson from the future

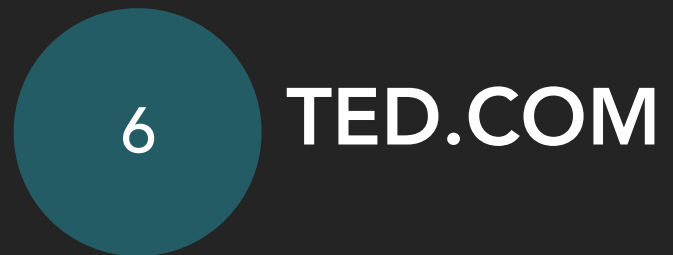
NMF

The art of misdirection
What I learned as a kid in jail
Flow, the secret to happiness
Can you really tell if a kid is lying?
A philosophical quest for our biggest problems
Life's third act

LSA

On tennis, love and motherhood
Play is more than just fun
The joyful tradition of mountain music
A manifesto for play, for Bulgaria and beyond
Fiddling in reel time
Lessons from past presidents

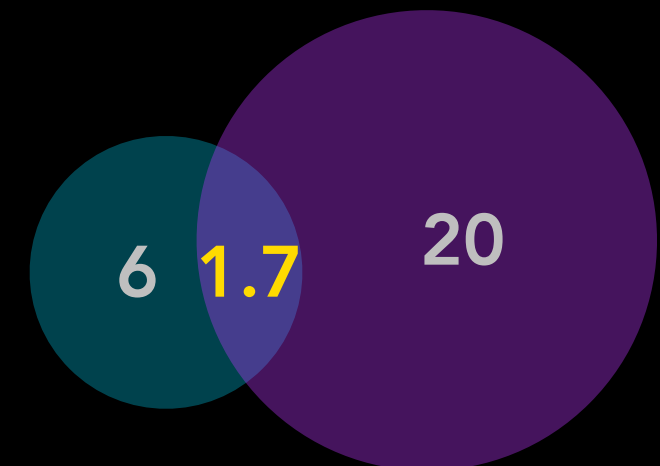
RECOMMENDER



LDA



LSA



NMF

Random chance: 0.05

RECOMMENDER

FROM 50-D TO 3-D

- PCA
- T-SNE

[GO TO DEMO](#)

