

Recommending Talks based on topic modeling

Yao Wu

How can we provide better user experience for exploring TED resources?

- Problem: 80k+ TEDx talks, 4k+ blog posts.
- Solution: Speech to Text -> Topic Modeling -> Content-based recommendation

IDEAS.TED.COM

Explore ideas worth spreading

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TEDx Talks

80,736 videos

TEDx is an international community that organizes TI everywhere -- celebrating locally-driven ideas ...

CHANNEL

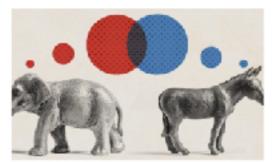
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GALLERY: PORTRAITS FROM THE STANDING ROCK PROTESTS

This fall photographer Camille Seaman travelled. to join the pipeline protects at the Standing Rock Reservation in North Dakota, Here, she brings us up close to some of the many people drawn. there to defend the water and the earth.



PFe humans

YES, THERE'S HOPE FOR AN END TO POLITICAL POLARIZATION IN THE US

Washington - and America - seem irrevocably mired in division and dysfunction, but bipartisanship and compromise could exist again. in the near future. Journalist Michael Tomasky helps point out three tiny rays of hope.

NORE -

Topic Modeling

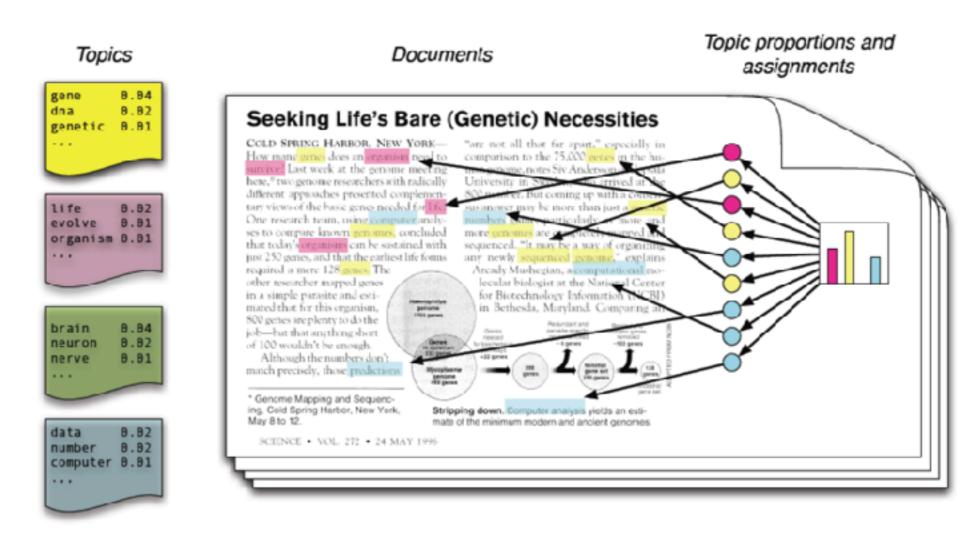


image from [Blei Ng Jordan 2012]

- Non-negative Matrix Factorization (NMF) can extract meaningful topics without any prior knowledge of the underlying data.
- For a topic, NMF calculates the importance of its words.
- NMF summarizes a document by assigning a score to each of the N topics.

EDUCATION: student teacher education classroom learn university college math high skill

GLOBAL ISSUES: people country world community social change government africa state society

ENVIRONMENT: water ocean planet earth animal fish specie sea nature plant

MUSIC: music song musician instrument guitar classical artist piano composer orchestra

ENERGY: energy solar power electricity fuel nuclear renewable climate carbon oil

HEALTH: cancer patient disease cell health doctor drug medicine medical hospital

GENDER: woman man girl gender female sex violence mother feminist equality

URBAN PLANNING: city building community space design neighborhood place art urban architecture

BUSINESS: business company money entrepreneur product dollar job market customer innovation

FOOD: food eat cook produce diet restaurant vegetable garden healthy organic

TECHNOLOGY: technology computer datum design information idea work device internet machine

FAMILY: child parent family mother baby life father home adult teach

SCHOOL: school kid teacher girl education year parent program young community

NEUROSCIENCE: brain neuron memory cell human cortex body activity neuroscience disorder

GAME: game play video sport virtual gamers win character football coach warcraft

Flask App

Ted Talk Recommender

Tedx Talks you may also enjoy

Let's Innovate our Education | Max Louwerse | TEDxTilburgUniversity

The internet has killed education as we know it | Elizabeth Boese | TEDxCU

When Higher Education Meets High Tech: Harvey Stenger at TEDxBinghamtonUniversity

Ted blogs that may inspire you

"We need to change everything on campus"

What's a MOOC - and where are they going next?

Find the Ted Talk that you've enjoyed

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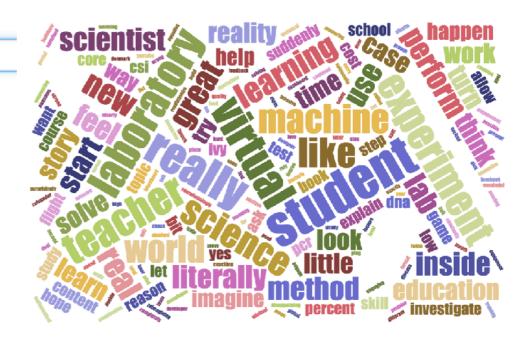
"This virtual lab will revolutionize science class | Michael Bodekaer'

"The birth of virtual reality as an art form | Chris Milk"

"The Future of News? Virtual Reality | Nonny de la Peña | TED Talks"

"Chris Milk: How virtual reality can create the ultimate empathy machine"

"Eric Whitacre: Virtual Choir Live"



Thank you!

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