

Text Analysis

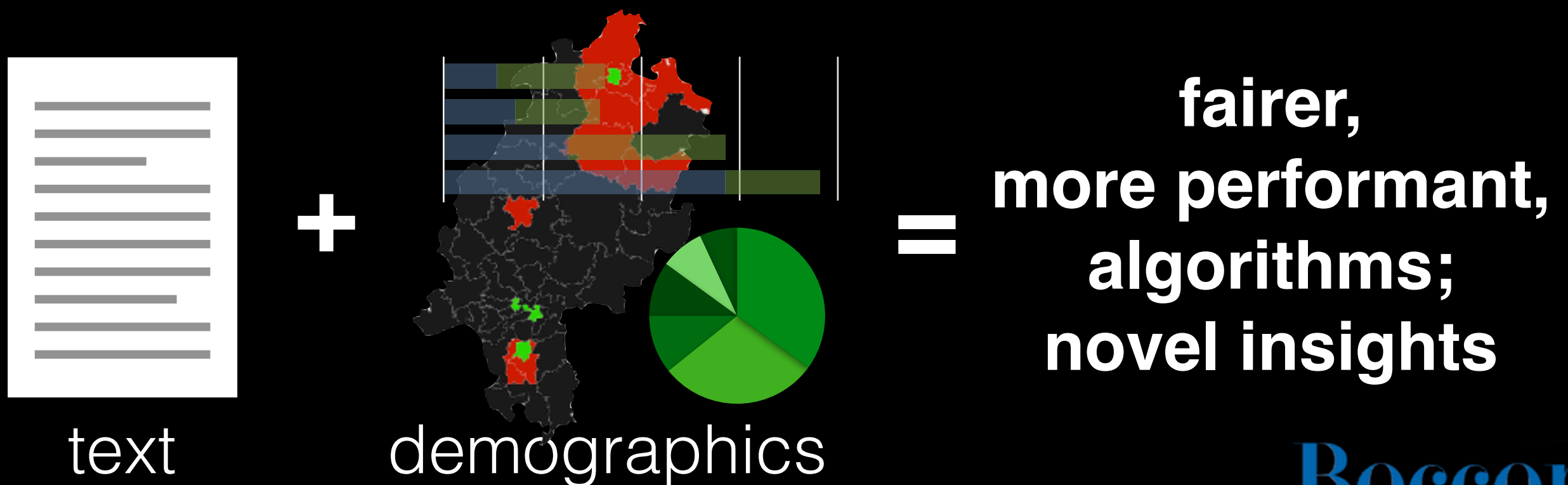
Spring 2020

Dirk Hovy

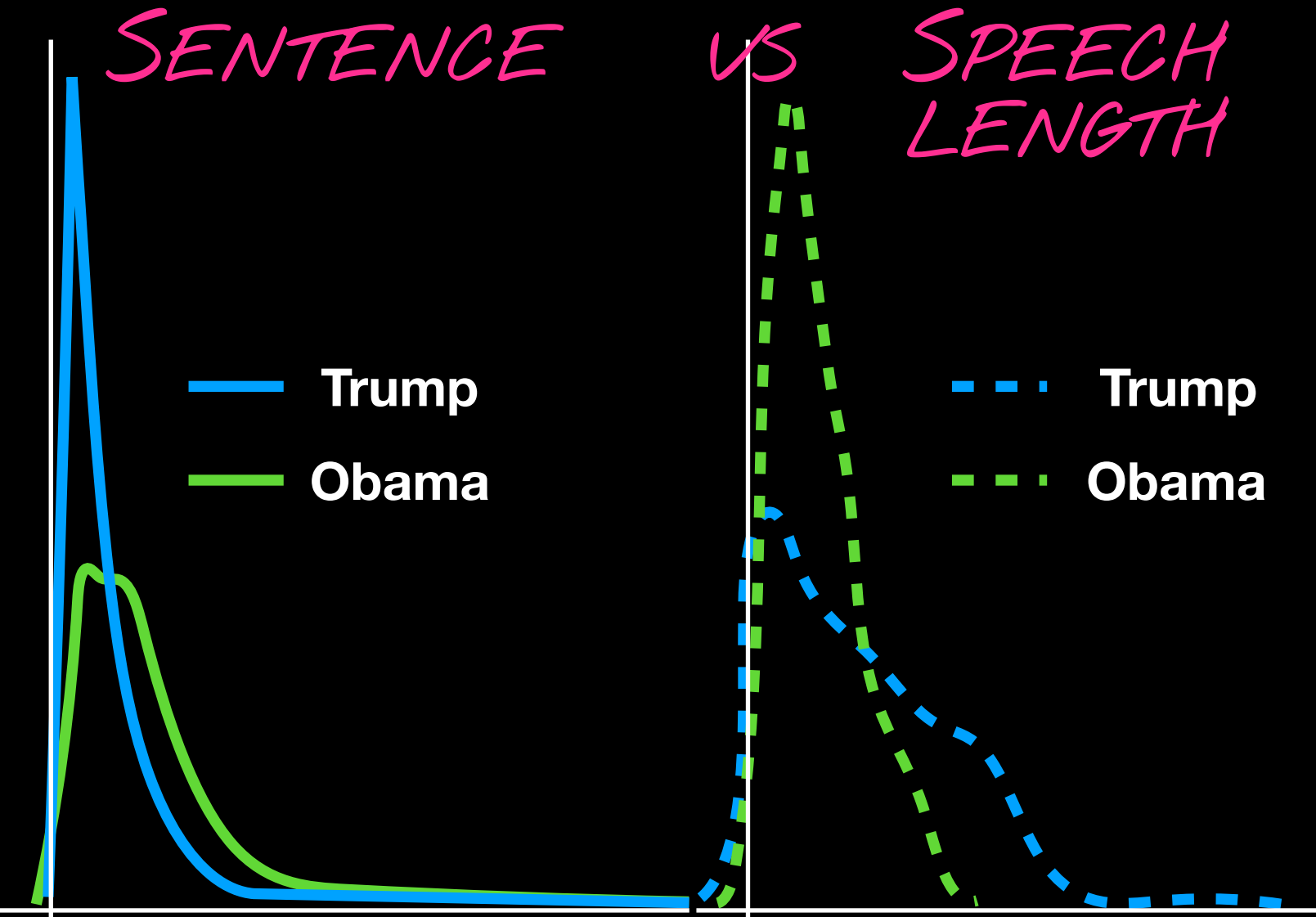
New Course, Who dis?

- Master in **linguistics** (Marburg)
- PhD in **Computer Science** (USC)
- Assoc. Prof **Marketing Dept.**; Scientific coordinator **Data and Marketing Insights** research unit (DMI)

Work on NLP, computational social science. **Including demographic information** (Hovy 2015, Benton et al. 2017), **ethics** and fairness (Hovy and Spruit, 2016)



Some Projects



TALK SIMILARITY

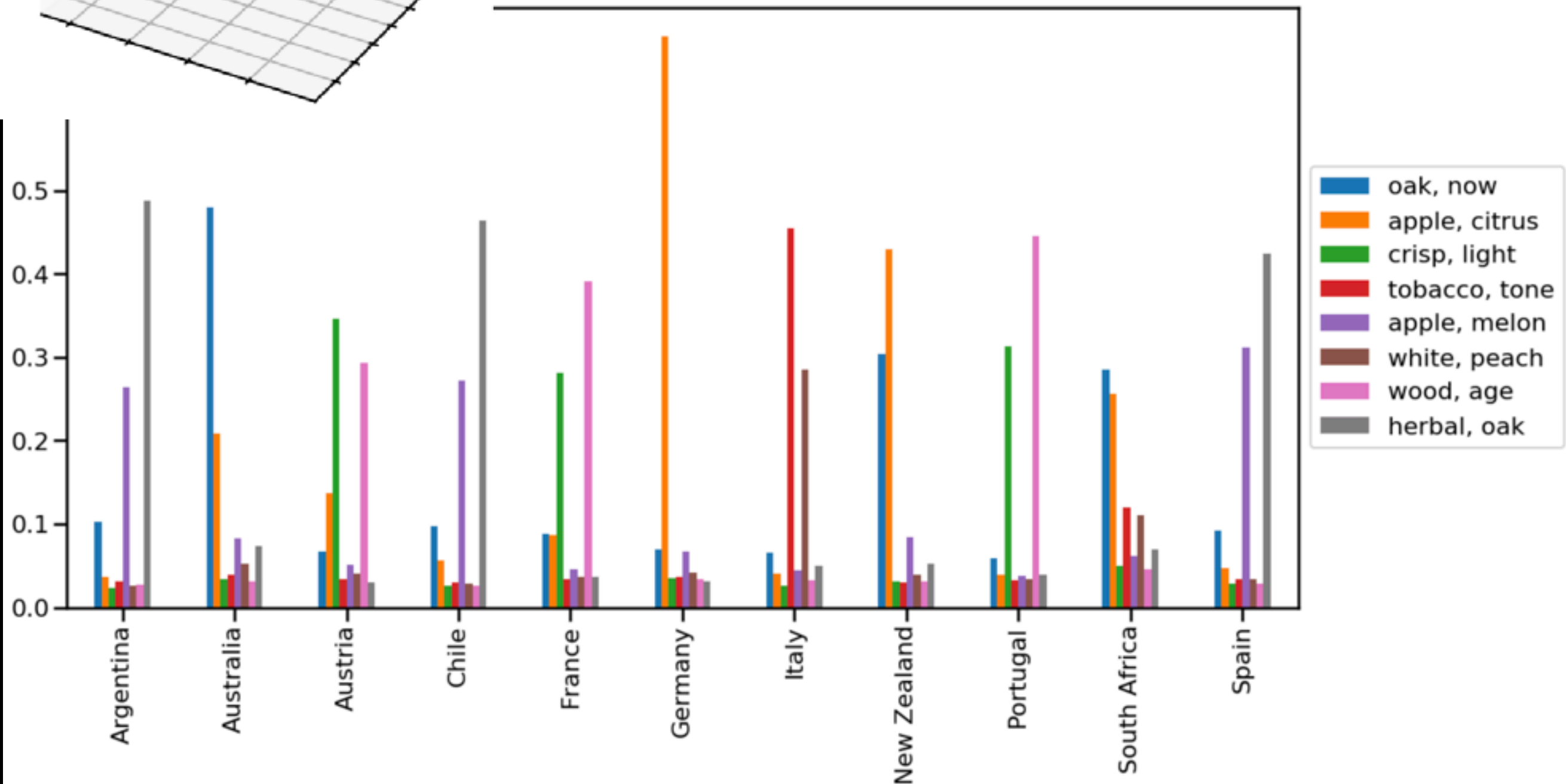
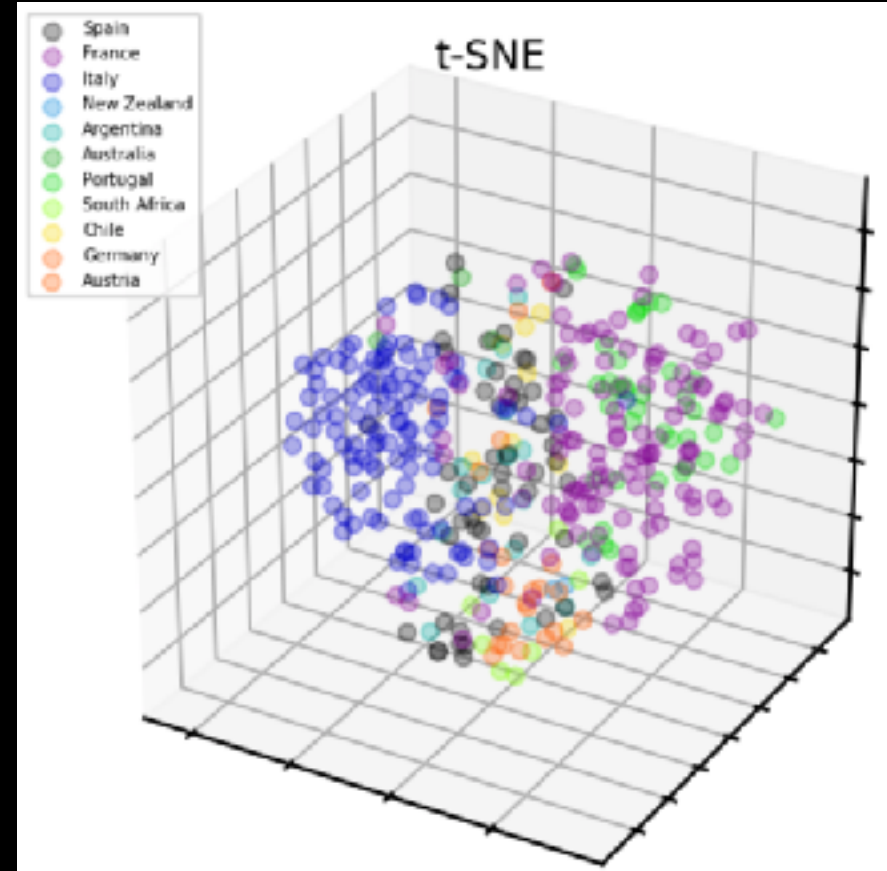
*CANDIDATE LMS FINISH
A SENTENCE STARTING
WITH "AMERICA"*

"America first — America first ..."

"America was actually on track to top
\$ 1 trillion in spending over the coming
decade -- because the freedom and
dignity --"

Some Projects

WINES FROM
DIFFERENT COUNTRIES



Course Structure

Part	Content
I. Python Basics	Variables, lists, sets, dictionaries, if-constructs, and for-loops
II. Text Analysis and Machine Learning	Handling and cleaning data, SQL, classifiers

The Bad News

- This might be your hardest class yet
- You won't learn programming by just sitting in class...

The Good News



- You have all the right skills to learn programming
- Practice **does** make perfect
- Successfully running code is immensely satisfying
- Programming literacy is a core qualification for ever more jobs

How do I succeed?

- Follow along: lessons build on each other
- Use the class **notebooks** and bring your **laptop** to class
- **Practice** as we go: do the **exercises**
- **Study** the notebooks: there is more material than just the slides

What If I Get Stuck?

1. **Don't panic:** this happens to everyone
2. Talk to your class mates
3. Google it: `stackoverflow.com` is your friend
4. Come to my office hours (make an appointment ahead of time online)

Grading

Component	Time	Evaluation
Coding Test*	in class, Friday, March 6	50%/100%
Text Classification	online, 1 week	50%/100%

Happy Coding!

