

Introduction to the Digital Text Analysis Codecamp

Today's Programme

prof. Mike Kestemont & prof. Walter Daelemans

- Introduction to the Ma DTA by Coordinators

Ben Burtenshaw

- Introduction to the codcamp
- Basic set-up check
- Start coding
 - Jupyter notebook
 - Variables in Python

Digital Text Analysis

MA (2020-2021)

University of Antwerp

An unconventional program

Why DTA?

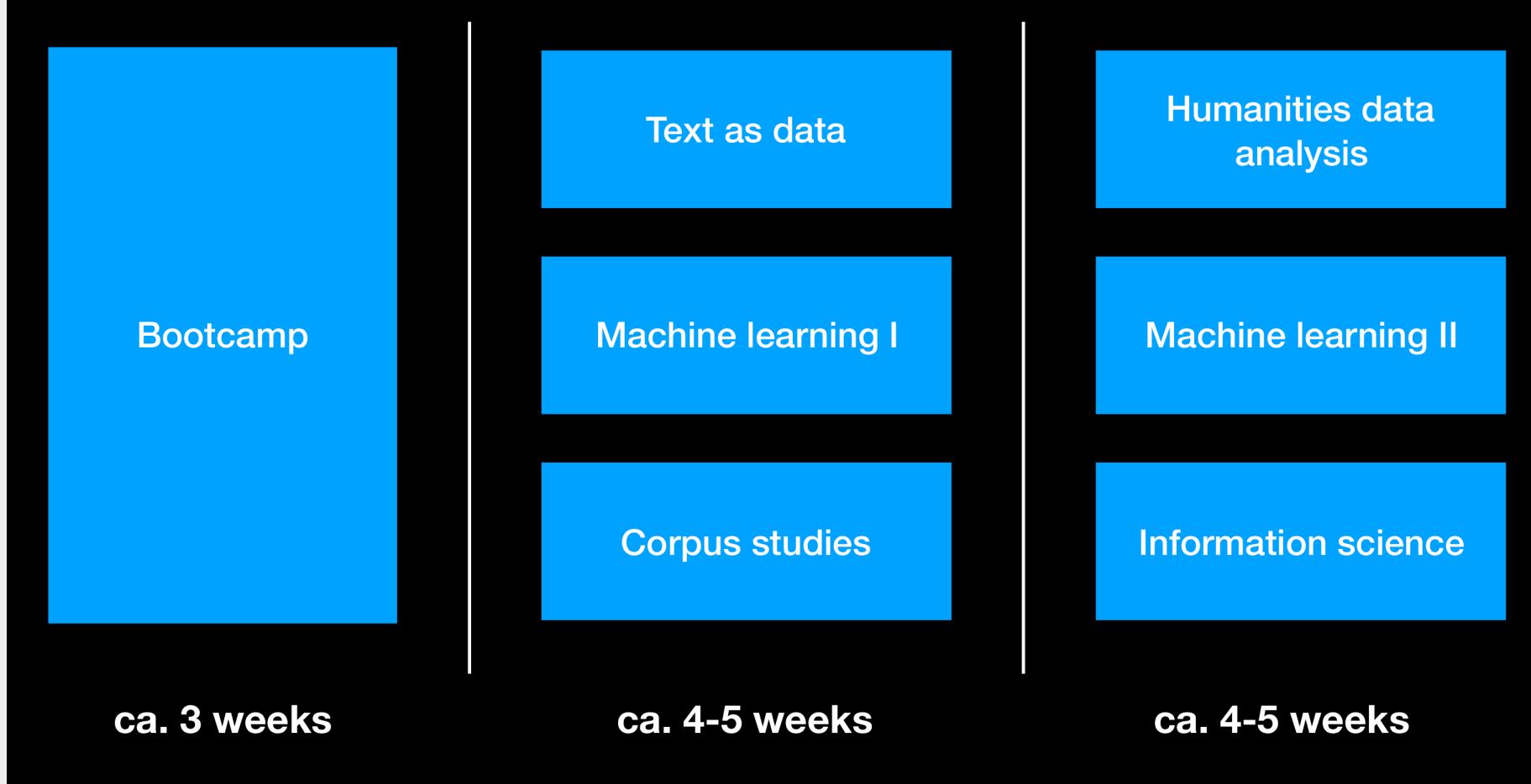
There is a need for people who are skilled in digital text analysis and artificial intelligence for text, **but with a Humanities background.**

- Answers real need in industry and academia
- “Nobody wants a journalist without a focus”

Why you?

- Affinity with Humanities (language and text in particular)
- No intention of creating IT people out of you

Unusual first semester : Modular and fast-paced



Why a bootcamp?

Code First

- There's no time to waste
- Establish Python as a *common language*, among others (cf. R, XSLT, JS, ...)
- Like a *language bath* in L2 learning: 3-week long, intensive immersion

Community

- Different backgrounds and exposure to code: partial repetition for some, an introduction for others (thanks for your patience! Help others!)
- Community building during first weeks (new MA)

DTA Course Staff



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Introduction to the Codecamp

Structure

- 2 * 2 hour Sessions per day
- Evening preparation

Assessment

- Practical programming exam
- One to one interview

Content

- Fundamental programming skills
- Intensive introduction to the Python programming language
- Fundamental methodological theory

Class Guidelines

Hybrid Learning

- Regular MA students physical (as long as allowed)
- Additional participants via Bb Collaborate (stable link)
- Recorded Sessions

Blackboard

- Course Material [Slides, notebooks, code, data]
- Recorded sessions

Covid Guidelines

- Follow the university guidelines.
- Stay updated
- If you need to self-isolate, you can follow the course via BB collaborate.

In the class

- Bring a laptop and charger
- The first tutor will not walk around
- The co-tutor will

Assessment

Two part test

- Practical programming test
- One-to-one interview to discuss your code

Practical Exam : 9/10/2020 @ 9:00 am

Interview : 9/10/2020 Afternoon

The purpose of a test

- To validate that students are able to implement and explain what they have learnt.

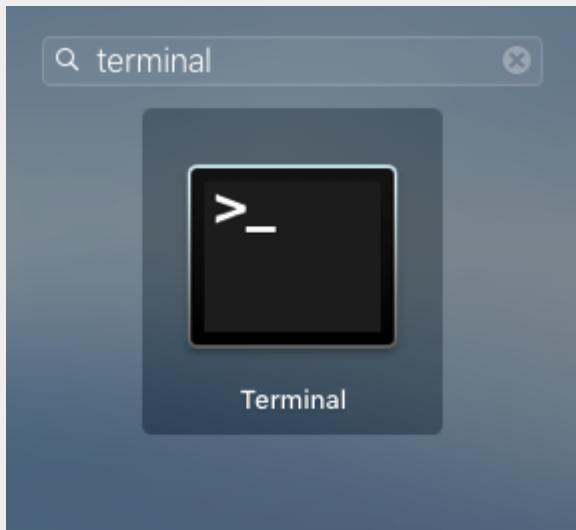
Today's Goals

- Set up a Jupyter Notebook
- Declare a variable

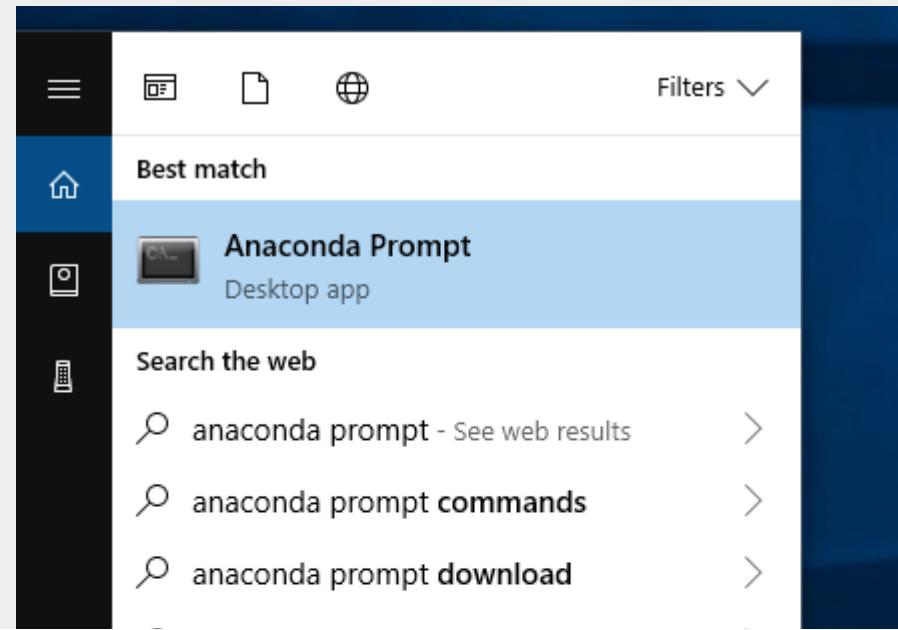
A quick set up check

- Have you installed Conda?
- This should already be complete
- Installation protocol

Mac

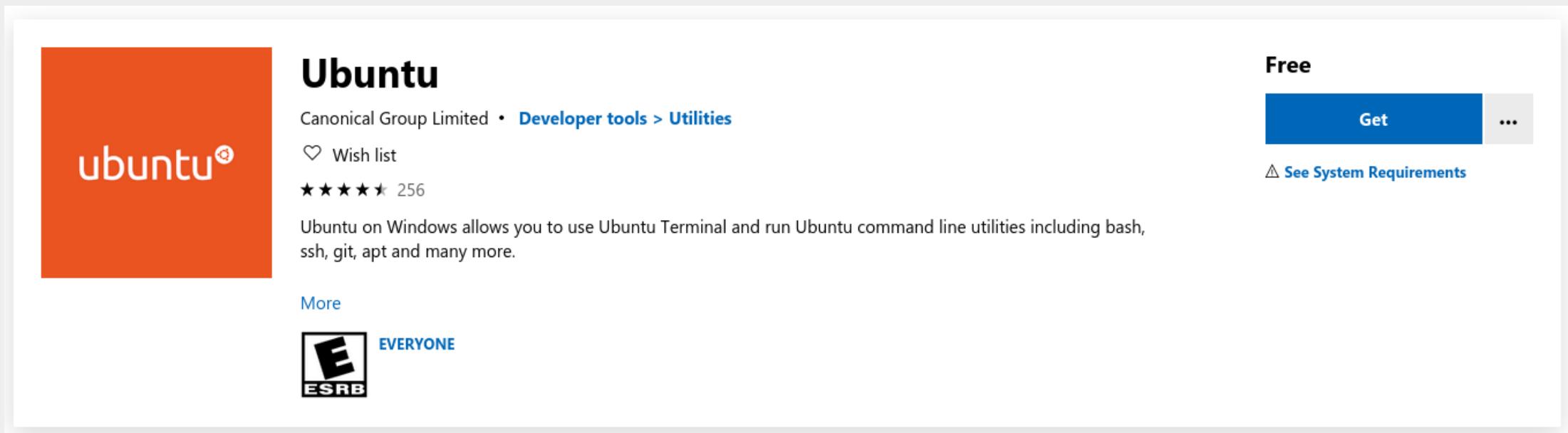


Windows



For Next Time

TODO Windows users should install 'Ubuntu on Windows'



The image shows a screenshot of the Microsoft Store page for the 'Ubuntu' app. The page has a white background with a large orange header featuring the word 'ubuntu' in white. Below the header, the title 'Ubuntu' is displayed in a large, bold, black font. Underneath the title, it says 'Canonical Group Limited • Developer tools > Utilities'. There is a 'Wish list' button with a heart icon and a '256' reviews rating. A descriptive text block states: 'Ubuntu on Windows allows you to use Ubuntu Terminal and run Ubuntu command line utilities including bash, ssh, git, apt and many more.' At the bottom left, there is a 'More' link and an ESRB rating icon showing 'EVERYONE'. On the right side, there is a 'Free' label, a blue 'Get' button, and a grey '...' button. Below the 'Get' button, there is a link to 'See System Requirements'.

» <https://www.microsoft.com/en-us/p/ubuntu/9nblggh4msv6>

Jupyter Notebooks

Open a Jupyter notebook

Type

```
jupyter notebook
```

into the terminal.

Introduction to Programming

Why programming?

...

Why python?

...

» [ix - x, Hammond 2020].

Variables in Python

A variable is a way of assigning a label to something.

Numbers

```
x = 5  
y = 6  
  
x + y
```

```
>> 11
```

Text

```
x = 'Hello'  
y = ' Dave'  
  
x + y
```

```
>> Hello Dave
```

Go to the Jupyter notebook **introduction.ipynb**

Resources

- The Python 3 documentation
- Glossary
- How to think like a computer scientist
- A Byte of Python
- Learnpython
- Python names and values
- PEP8 Style Guide for Python
- Python Tutor
- Stackoverflow