**Storyboard for Module 1.1 – About Python for Computational Linguists (And why study Python?)**

**Last revised: 26th June 2019**

**Roles:**

* Curriculum design:
* Story writer:
* Jupyter notebook code/resource finderr:
* Tester/rewriter:

**Time scale:**

* Target date for completion of Modules 1.1 to 1.4 is end of July 2019

**Working environment:**

* MS Notebooks + Slack ?

**Module 1 theme: Basic Python concepts for corpus processing (3 + 1 weeks in total)**

Objectives of Module 1: (i) Understand the basic concepts of Python programming using Jupyter Notebooks in the Microsoft Azure environment (‘*Azure Notebooks*’). This will include variables, collection types, loops, control structures and functions. Along the way students will learn to (ii) Write efficient regular expressions to solve text-based extraction tasks such as sentence segmentation, part-of-speech tagging and building a simple ELIZA-like chatbot; (iii) Apply the edit distance algorithm to text sequence problems; (iv) Work with corpus data to calculate statistics using loops, dictionaries and counting; (v) Consolidate understanding of commonly used evaluation metrics such as accuracy, precision, recall and F-score.

**Module 1.1 (pre-course) – About Python for Computational Linguists (And why study Python?)**

Number in brackets show estimated time to complete (needs testing). **Text in bold** highlights points of self-assessment or formal assessment. **Text in blue** corresponds to topics covered in the lectures.

Module 1.1 (1 hour)

Welcome

Pre-requisites

The course structure

Textbook

Lecture notes

Assignments

Grading policy

Additional readings and helpful references

Complete the short pre-course survey (<-- send us expectations about what students would like to achieve)

How to work with your first Jupyter notebook