Welcome to SICSS-Edinburgh 2005

Tuğrulcan Elmas / Tj

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Objectives

- Finish a Computational Social Science Project together & enjoy it
- Learn how to:
  - Come up with ideas
  - Apply suitable methods
  - Understand the strengths, limitations and risks
- Foster Interdisciplinary Collaborations
- Be part of the CSS community

Program TL;DR:

First Week

- 10:00-13:00 Lecture
- 12:30/13:00-14:00 Lunch
- 14:00-16:00 Lecture 2
- 16:00-17:00~ Research Talk

Friday:

- 12:30 Break
- 13:00 Lunch & Discussion
- 14:00 Group Formation

Second Week

- Monday: 10:00-14:00 Group work 14:00 Talk by Marion 15:00 Q&A
- Tue/Wed/Thursday: Group work until 16:00, Speakers later if any
- Friday: 10:00 Presentations
- Friday: 14:00 Viva

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Courses

Monday: Intro & Data Collection

Tuesday: Data Analysis & Scaling

Wednesday: Network Analysis

Thursday: Text Analysis & Classification

Friday: Ethics, Bias & Fairness

Activities

Monday: Activity at Evening

1st Friday: Discussion Group & Pizza

Saturday: Tour (depends on the weather)

2nd Friday: Group presentations & Eddie's Viva

Communication & Materials

Slack

Github

Me

- B.S. 2017: Bilkent Uni. Computer Engineering, Türkiye
- Ph.D. 2022: EPFL, Switzerland
  - “The Role of Compromised Accounts in Social Media Manipulatio
- Postdoc 2024: Indiana University Bloomington, USA
  - Observatory on Social Media Lab
- Assistant Professor / Lecturer: University of Edinburgh
  - SMASH (Social Media Analysis & Support for Humanity) Lab
  - Text Technologies in Data Science
  - Evidence, Argument & Persuasion in a Digital Age
  - Computational Social Science (next year)

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Organizers & Lecturers

Tuğrulcan Elmas
(Informatics)

Björn Ross
(Informatics)

Uğur Özdemir
(Political Science)

Tod Van Gunten
(Sociology)

Walid Magdy
(Informatics)

Zee Talat
(Informatics)

Artemis Deligianni
(Psychology)

Aybüke Atalay
(Political Science)

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You?

YOUR TURN

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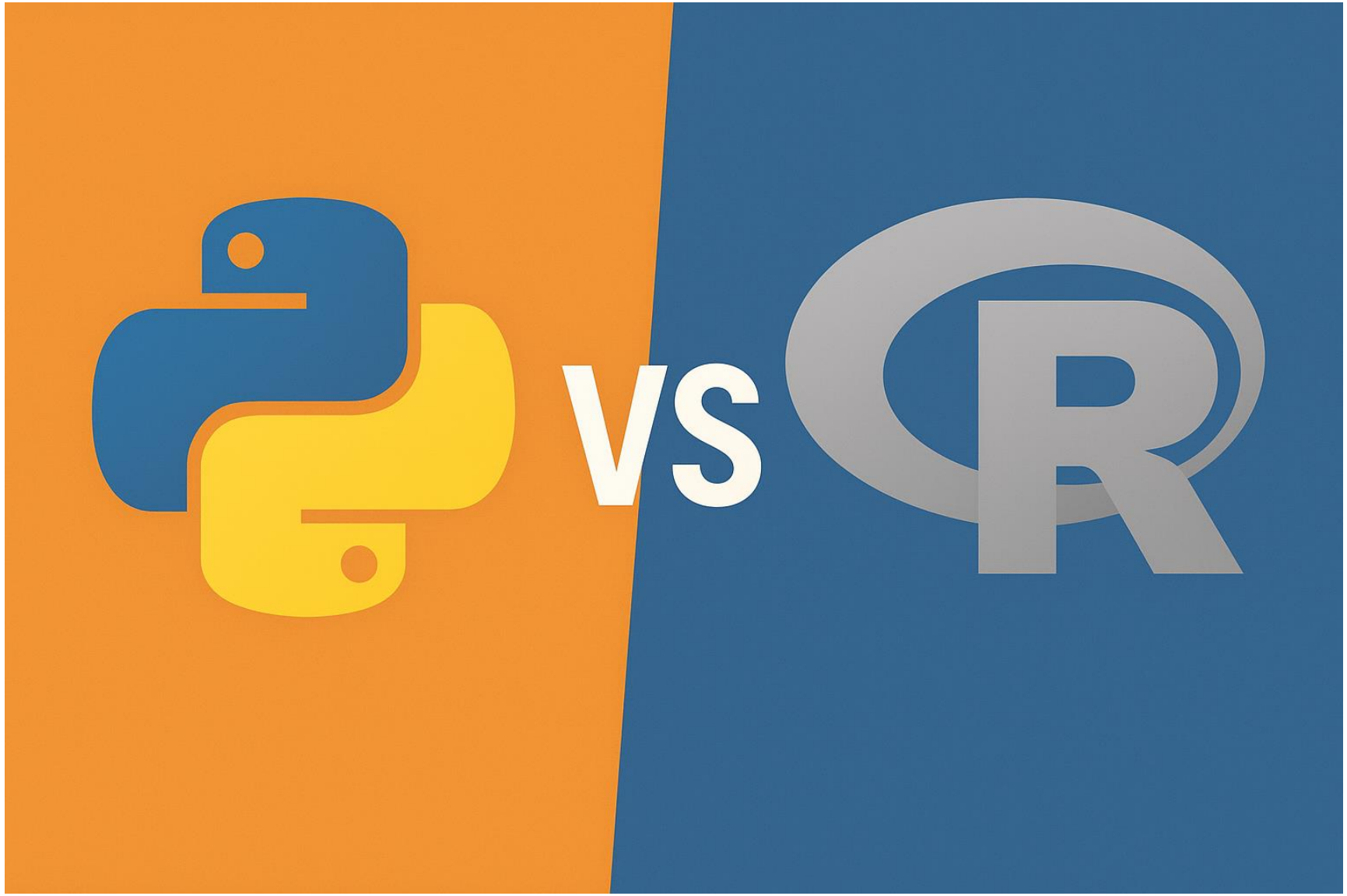
Python vs. R?



Python vs. R?

It will be a mix…

Data Collection: Python

Data Analysis: Python with R Supplement

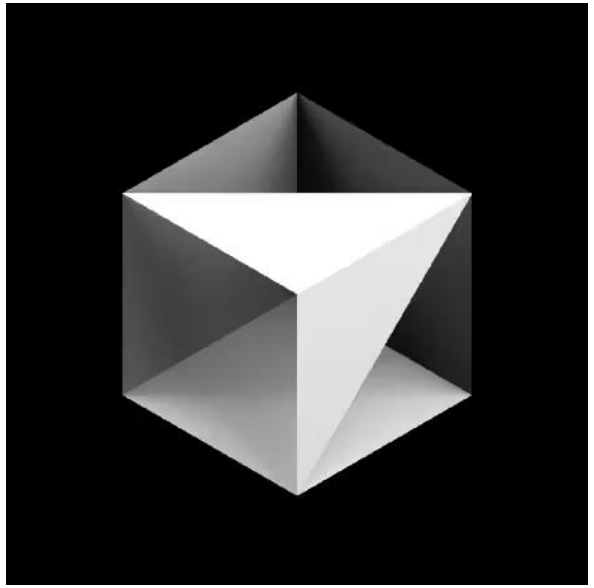
Scaling: R

Network Analysis: R

Text Analysis & Classification: Python

Project: Up To You

Environment



Google colab

R Studio®

Cursor:

+ AI

+ Free for students

- New

- May be hard to install

Colab:

+ No installation

+ AI

- May be slow

- May crash

RStudio:

+ Easy

- No AI ☹

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Questions?

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