Looking Back and What's Next

Problem Solving using Python - Week 15

Today Outline

1. Course Overview
2. Looking Back and Feedback Session
3. Closing Words

Course Overview

Why?

Programming requires multiple steps and it is challenging for novice programmers

What?

Learning to solve programming problems using Python

How?

With *Programming Problem Solving model* and tackling real problems

Learning Objectives

At the end of the course, you will...

1. be able to solve programming problems in a methodical and thoughtful manner based on the "Programming Problem Solving Model".

2. be able to write, read, modify, test and debug programs in written Python.

3. have a Pythonic Mindset.

Our Teaching Philosophy

1. "Problem Solving using Python" is a joint journey
2. Learning is an active, cognitive, and social process
3. Learning should be authentic
4. Motivation, interest, curiosity, and fun matter
5. Building our capacity to solve programming problems takes time and effort
6. Learning is about continual improvement so it requires rapid feedback
7. Teaching should be adaptive and personalized
8. Failure is essential to learning
9. We all have a code of honor
10. We are all human

NOT our Teaching Philosophy

Motivation, interest, curiosity and fun matter

Authorship Detection

Plagiarism Detection

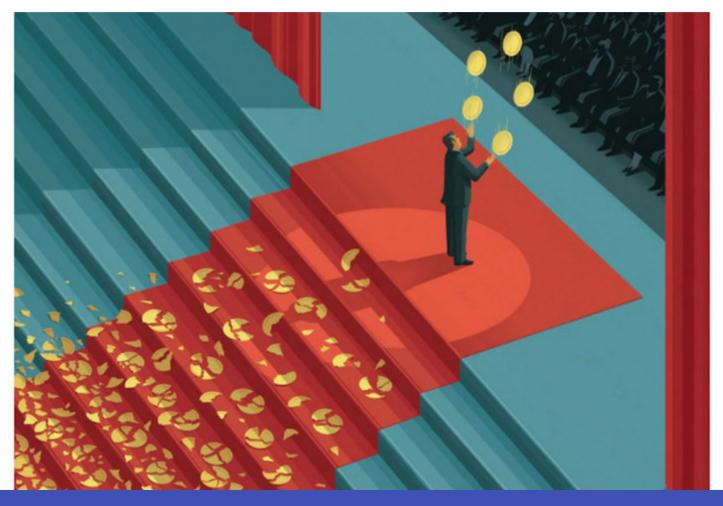**Image Editing Detection**

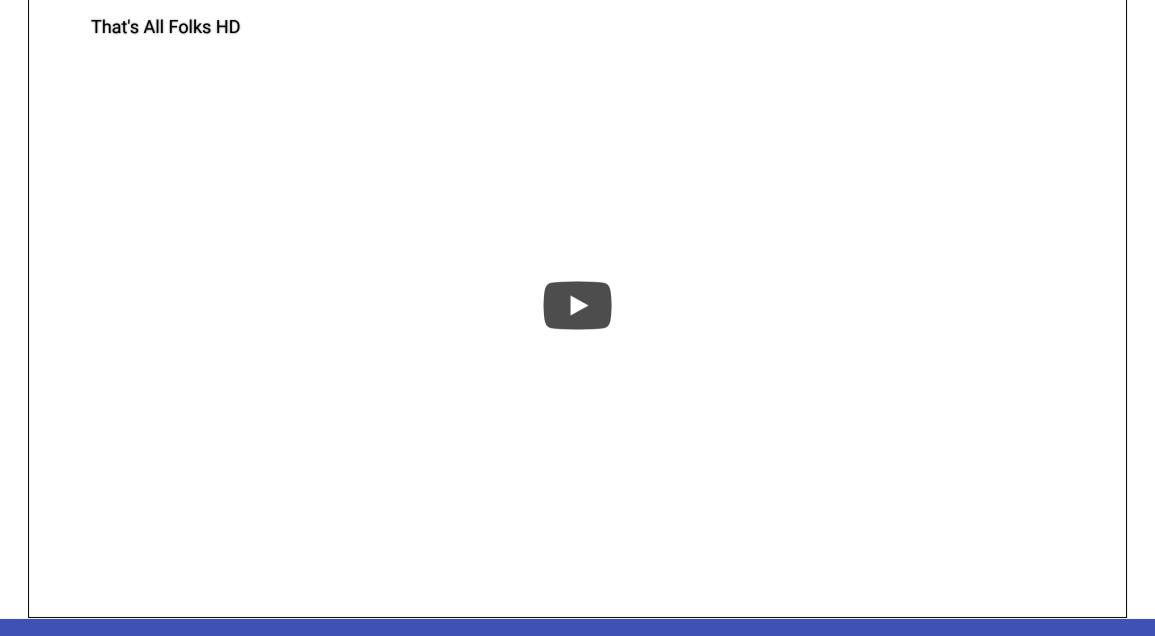**Shortest-Path on a Graph**

String Alignment

Failure is essential to learning

Looking Back and Feedback Session

Closing Words

That's All Folks HD

THE END

... of the course! not of learning programming!

Problem Solving using Python

WS 18/19

University of Potsdam