Data processing with Pandas & Data plotting with Matplotlib

Report of Contributions

Contribution ID: **1** Type: **not specified**

Welcome and Introduction (Pandas)

Wednesday 12 June 2024 10:00 (30 minutes)

Contribution ID: **2** Type: **not specified**

The Series Datatype

Wednesday 12 June 2024 10:30 (30 minutes)

Learn about the fundamental data type used for labelled sequential data.

Session Classification: Introduction to Pandas

Contribution ID: **3** Type: **not specified**

Introduction to DataFrames

Wednesday 12 June 2024 11:00 (30 minutes)

Get to know a more advanced data type to deal with multi-dimensional data.

Session Classification: Introduction to Pandas

Contribution ID: 4 Type: **not specified**

Accessing Data

Wednesday 12 June 2024 12:30 (30 minutes)

Learn about multiple ways to access subsections of a Series or a DataFrame and singular elements in it.

Session Classification: Introduction to Pandas

Contribution ID: 5 Type: **not specified**

Filtering Data

Wednesday 12 June 2024 13:00 (30 minutes)

Learn how to create filter masks to separate out the interesting data.

Session Classification: Introduction to Pandas

Contribution ID: 6   Type: **not specified**

Modifying Data

Wednesday 12 June 2024 13:30 (30 minutes)

Learn how to add and manipulate existing data in a DataFrame or Series.

Session Classification: Introduction to Pandas

Contribution ID: 7   Type: **not specified**

Hands-on Exercise (Pandas) Loading Data

Wednesday 12 June 2024 14:30 (1h 30m)

Try out your newly learned skills on a real-live data set.
In this section, you will learn how to load a complex data set and re-shape it into a usable form based on the provided metadata. The instructors are available to give advice and feedback.

Session Classification: Introduction to Pandas

Contribution ID: **8**   Type: **not specified**

Welcome and Introduction (Matplotlib)

Thursday 13 June 2024 10:00 (30 minutes)

Contribution ID: **9** Type: **not specified**

Introduction to Pyplot

Thursday 13 June 2024 10:30 (30 minutes)

Pyplot is a collection of shortcuts for common tasks. Learn how to use it to create basic plots.

Session Classification: Introduction to Matplotlib

Contribution ID: **10**   Type: **not specified**

Multiple Plots

Thursday 13 June 2024 11:00 (30 minutes)

Learn how to create multiple plots and arrange them in a single figure.

Session Classification: Introduction to Matplotlib

Contribution ID: **11** Type: **not specified**

Object-oriented Style

Thursday 13 June 2024 12:30 (45 minutes)

Learn about an alternative approach to setting up plots.

Session Classification: Introduction to Matplotlib

Contribution ID: **12** Type: **not specified**

Matplotlib + Pandas

Thursday 13 June 2024 13:15 (45 minutes)

Learn how you can combine Pandas and Matplotlib for quick plotting.

Session Classification: Introduction to Matplotlib

Contribution ID: **13** Type: **not specified**

Hands-on Exercise (Matplotlib)

Friday 14 June 2024 12:30 (1h 30m)

Try out your newly learned skills on a set of real-live use cases. The instructors are available to give advice and feedback.

Session Classification: Introduction to Matplotlib

Contribution ID: 14   Type: **not specified**

Hands-on Exercise (Pandas) Cleaning Data

Thursday 13 June 2024 14:30 (1h 30m)

The loaded data set still has quite a few inconsistencies, missing values and formatting peculiarities that need to be dealt with before it is ready for analysis.

Session Classification: Introduction to Pandas

Contribution ID: **15** Type: **not specified**

Hands-on Exercise (Pandas) Analyzing Data

Friday 14 June 2024 10:00 (1h 30m)

Analyze the now cleaned data set to extract new knowledge about the climatic conditions at the chosen location.

Session Classification: Introduction to Pandas