

Coding tasks for 04.02.2021

Topic: Introduction to Conda

I. Introduction:

Conda is a package and environment management system. It was first developed for Python, but also works for other programming languages like R and Java. One nice thing about conda is that it runs on all major operating systems and that environments can easily be shared. It can be used to create customised environments for projects you are working at or to install and run a tool which has very specific dependencies.

The goal for this tasks is that you get a basic knowledge of how to create and manage environments with Conda.

II. Tasks:

1. Install Miniconda on your working device.
2. Try to update your Conda installation.
3. Create a Conda environment with python 3.9.
4. Write an environment.yml with the dependencies numpy, pandas and python 3.6.
5. Activate the environment.
6. View all installed packages.
7. Install scipy directly in the environment.
8. Check if scipy was installed.
9. Try to update scipy.

10. Remove scipy from your environment.
11. Export the environment into an environment.yml-file.
12. Remove the environment.

III. Useful links for the tasks:

All tasks can be solved via reading the user guide for Conda:
<https://docs.conda.io/projects/conda/en/latest/index.html>