



CEPLAS

Cluster of Excellence on Plant Sciences

Start Your ARC Workshop Series

Preparation for Session 02 – "Build your ARC"

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Checklist ARC hands-on

💡 Please follow the next slides to register with DataPLANT and install some helper tools on your computer

- ✅ Register at DataPLANT
- ✅ Find your terminal
- ✅ Install ARC Commander and dependencies on your computer

DataPLANT Registration

If you do not have a DataPLANT account, please register at the [DataPLANT website](#).

SIGN UP

Get access to DataPLANT infrastructure and services

Next ▶

The infrastructure, tools, and workflows we offer support you in transforming your results into FAIR Digital Objects and enable seamless collaborations between you and your lab-members or even project partners from multiple labs. Thanks to the versioning feature of Git, every step is traceable at any time, preserving the provenance of each dataset. Do not hesitate and register using our Keycloak Single Sign-On solution.

Role and consortium

Please add your **Project/consortium** (e.g. CEPLAS, SFB, TRR) and choose the role **Guest**

SIGN UP

Affiliation details

Project/consortium

Research interests. Multiple interests need to be separated with a comma.

✓ Choose your Role in DataPLANT

DataSteward

Developer

Member

Guest

The command line

Find the **command-line interface (CLI)** on your system.

- On Windows: Enter `powershell` into the explorer path
- On MacOS: Search `terminal` via spotlight (⌘ + ␣) or navigate to `Applications` -> `Utilities` -> `Terminal`

> Note: In our tutorials we sometimes use "terminal", "command-line interface (CLI)" and "powershell" interchangeably.

ARC Commander Installation

Please install the latest version of the ARC Commander and dependencies for your operating system according to the [manual's setup instructions](#).

Check if the ARC Commander is functional by displaying the ARC Commander version and help menu:

```
arc --version
```

Setup ▾

Installing Dependencies

Configure Git

Installing the ARC Commander

Windows

MacOS

Linux

DataHUB Access

Before we start

Hands-on: Bring your own data

In the hands-on session, we would like to start creating an ARC together.

To do so, please bring some data!

This can be data of your current research project or an already published manuscript with supplemental data. Anything that you feel familiar with.

Resources



CEPLAS Data Science

Website: <https://www.ceplas.eu/en/research/data-science-and-data-management/>



DataPLANT (nfdi4plants)

Website: <https://nfdi4plants.org/>

Knowledge Base: <https://nfdi4plants.org/nfdi4plants.knowledgebase/>

DataHUB: <https://git.nfdi4plants.org>

GitHub: <https://github.com/nfdi4plants>