The DataPLANT Knowledge Base

Contribution to DataPLANT

DataSteward Circle – December 11th, 2024

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Goal of the Knowledge Base

- Articles about RDM topics, DataPLANT concepts
- Self-guided tutorials
- Addresses: primarily (non-technical) users

DataPLANT Knowledge Base: https://nfdi4plants.org/nfdi4plants.knowledgebase/



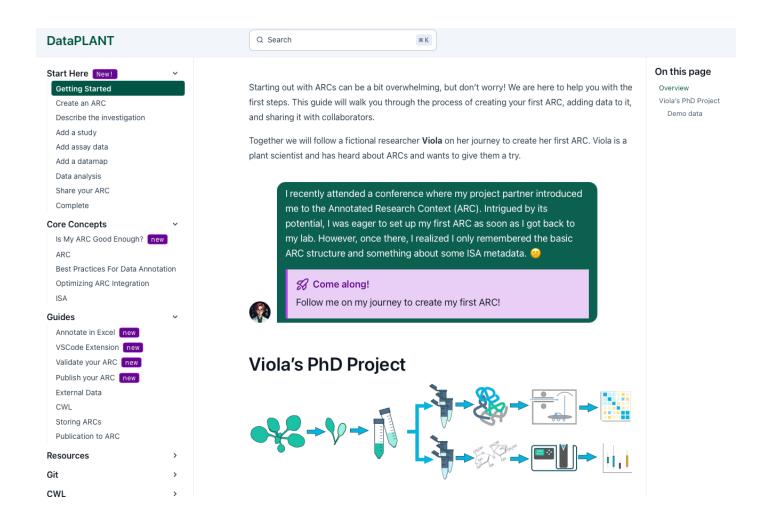




Getting-Started guide

https://nfdi4plants.github.io /nfdi4plants.knowledgebase /start-here/

- ready-to-use for workshops
- includes demo material









Please help improve the Knowledge Base

- Read and use the knowledge base content
- Raise issues
- Open pull-requests
 - suggest changes
 - create or edit content







Contribution guide

Details in the contribution guide.







Framework

- Knowledge Base is built on astro starlight
- Starlight itself builds on astro
- Please also check their docs for features or installation instructions







Installation

- 0. Sign up for a GitHub account
- 1. Install Node JS
- 2. Clone the Knowledge Base repo via git clone

https://github.com/nfdi4plants/nfdi4plants.knowledgebase







Create content and watch locally

- 1. Install (latest) package dependencies via npm install
- 2. Start the knowledge base in watch mode via npm run dev
- 3. Open the page in your browser http://localhost:4321/nfdi4plants.knowledgebase







Check for dead links

You can test-build the site via npm run build to validate all links.

Also tested on every pull-request







Markdown

All articles are written in markdown (.md or .mdx).

See https://starlight.astro.build/guides/authoring-content/ for a short introduction.







VSCode

We recommend working with Visual Studio Code to generate content

Recommended VSCode extensions:

- Astro Build: https://marketplace.visualstudio.com/items?itemName=astro-build.astrovscode
- MDX: https://marketplace.visualstudio.com/items?itemName=unifiedjs.vscode-mdx
- Other extensions, e.g. for
 - Markdown
 - GitHub
- The mdx files cannot be previewed in VSCode. Please use npm run dev as described above.







Sections – Where to place your content?

Start here

- Current best practice for ARC newcomers
- Includes demo material

Guides

- specific topic or task
- do not place specific tools documentation here

Core concepts

DataPLANT and ARC core concepts

<specific-tool>

- tools to work with ARCs have their own section
- e.g. ARCitect, ARC Commander,
 DataHUB

Fundamentals

- Basic RDM topics
- not necessary ARC-related, but "towards" ARC







Content metadata (yaml header)

```
• MUST start and end with ---
• MUST contain a title:

    MAY contain ...

      lastUpdated:
      authors:
    o draft:
      pagefind:
      sidebar:
        order:
          badge
```

Check the Astro Starlight Docs for more options.

```
title: Metadata
lastUpdated: 2024-12-11
authors:
    - dominik-brilhaus
draft: true
pagefind: false
sidebar:
    order: 2
    badge:
        text: new
        variant: tip
```







Authorship

Every author is listed via a file in src/content/authors .

For example src/content/authors/kevin-frey.yml:

```
name: Kevin Frey
image: "@images/authors/kevin-frey.jpg"
socials:
   - icon: simple-icons:github
    href: https://github.com/Freymaurer
   - icon: simple-icons:orcid
    href: https://orcid.org/0000-0002-8510-6810
affiliation: DataPLANT
```

The author easily be mentioned via yaml metadata

```
authors:
    - kevin-frey
```







Style Guide

- All files and folders must always be kebap-case.
- This means all lower case and as word separator, e.g.

src/assets/images/arc-commander/access-2.png







Composition

- Always follow DRY (Don't Repeat Yourself) principle
- If you have the same content in multiple places, consider creating a reusable component, e.g.
 - "How to register for DataPLANT"
 - "How to create an access token"
 - 0 ...
- Use cross-references (links) to existing content
- In _mdx you can also directly insert other content in the current file







Components

- Components help to style your content
- They are only available in .mdx files
- Starlight comes with built-in components
- Custom components are available in src/components/mdx directory

- Steps
- Cards
- Tabs
- Mermaid
- FileTree
- ViolaSays
- ...

a







Component example

```
<Steps>
1. Click on the plus icon next to `assays` to add a new assay.
2. Enter a name for the 'New Assay'.
    <ViolaSays>
        SugarMeasurement
    </ViolaSays>
3. Click 'New Assay'.
4. ARCitect adds the assay `SugarMeasurement` including the folders `dataset` and `protocols` as well as a `README.md` and the
`isa.assay.xlsx` workbook. You can display the file structure created
by ARCitect by clicking on `SugarMeasurement` as shown below.
    <FileTree>
    assavs
         - **SugarMeasurement**

    dataset

             protocols
             isa.assay.xlsx
             - README.md
    </FileTree>
    :::note
    The `isa.assay.xlsx` is not displayed inside ARCitect.
. . .
```

- 1 Click on the plus icon next to assays to add a new assay.
- 2 Enter a name for the New Assay .



- 3 Click New Assay .
- ARCitect adds the assay SugarMeasurement including the folders dataset and protocols as well as a README.md and the isa.assay.xlsx workbook. You can display the file structure created by ARCitect by clicking on SugarMeasurement as shown below.





The isa.assay.xlsx is not displayed inside ARCitect.







Images

- Try to use svg files for icons, graphics and logos
- Use any other file format for screenshots or tutorial images
- Images should be stored in the src/assets/images directory. If your image has an obvious context, you SHOULD create a subdirectory for it.

```
src
|-- assets
|-- images
|-- arc-commander
|-- access-1.png
|-- access-2.png
|-- access-3.png
```







Adding images in .md / .mdx

In markdown you can use the following syntax:

```
![](@images/path/to/image.png)
```

For html in _mdx you can use the following syntax:

```
import MacOSSecurity from "@images/arcitect/macos-security.png"
<img src={MacOSSecurity.src} style="width:50%;display: block; margin: 20px" />
```













Training material

https://github.com/nfdi4plants/training-material

Feel free to share your slide decks







Acknowledgement







