

Prepare list of files for upload to FAIRDOMHub with seekr

A. Blejec

Last compiled on 2021-10-21

Introduction

I will organize a batch upload to FAIRDOMHub. For the operation I have prepared the R package **seekr**, available at GitHub. Package operations are based on SEEK API [documentation]{<https://fairdomhub.org/api>}.

```
library(pisar)  
#library(rio)  
library(jsonlite)
```

```
## Warning: package 'jsonlite' was built under R version 4.0.3
```

```
library(httr)  
library(seekr)
```

Prepare pISA environment

Package **seekr** contains demo pISA-tree project. For this demonstration we can use the demo project. It is assumed, that our working directory is a layer of the pISA project. It is recommended that working directory is an assay, so we will start in an assay that is available in the package **seekr**.

Note: If R is already started in an existing assay, the following chunk is not needed, set eval to FALSE.

```
astring <- "_p_Demo/_I_Test/_S_Show/_A_Work-R/"  
oldwd <- setwd(system.file("extdata", astring, package="seekr"))  
oldwd  
dir()
```

First we need to initialize the pISA-tree. Function **pisa** returns information of the Function **pisa** will complain, if the working directory is not a pISA layer.

```
pini <- pisa()
```

For a short orientation, here is the structure of the information about the pISA-tree:

```
str(pini)
```

```
## List of 13
## $ p      :List of 3
## ..$ name: chr "_p_VinskaTrta"
## ..$ root: chr "../.../.../..."
## ..$ meta:Classes 'pISAMeta', 'Dlist' and 'data.frame': 17 obs. of 2 variables:
## ...$ Key : chr [1:17] "project:" "Short Name:" "Title:" "Description:" ...
## ...$ Value: chr [1:17] "_p_VinskaTrta" "VinskaTrta" "Vine related research" "*" ...
## $ I      :List of 3
## ..$ name: chr "_I_EnViRoS"
## ..$ root: chr "../.../.../..."
## ..$ meta:Classes 'pISAMeta', 'Dlist' and 'data.frame': 11 obs. of 2 variables:
## ...$ Key : chr [1:11] "Investigation:" "Short Name:" "Title:" "Description:" ...
## ...$ Value: chr [1:11] "_I_EnViRoS" "EnViRoS" "Integration of data from different platforms" "*" ...
## $ S      :List of 3
## ..$ name: chr "_S_01_Integ"
## ..$ root: chr "../.../.../..."
## ..$ meta:Classes 'pISAMeta', 'Dlist' and 'data.frame': 11 obs. of 2 variables:
## ...$ Key : chr [1:11] "Study:" "Short Name:" "Title:" "Description:" ...
## ...$ Value: chr [1:11] "_S_01_Integ" "01_Integ" "*" "*" ...
## $ A      :List of 3
## ..$ name: chr "_A_02_Upload-R"
## ..$ root: chr "../.../..."
## ..$ meta:Classes 'pISAMeta', 'Dlist' and 'data.frame': 12 obs. of 2 variables:
## ...$ Key : chr [1:12] "Assay:" "Short Name:" "Assay Class:" "Assay Type:" ...
## ...$ Value: chr [1:12] "_A_02_Upload-R" "02_Upload-R" "DRY" "R" ...
## $ oroot   : chr "../.../.../output/PrepareFilesForUpload-render-PrepareFilesForUpload-HTML-C:\\User:
## $ inroot  : chr "../.../.../input"
## $ reprot  : chr "../.../.../reports"
## $ outputFile: chr "../.../.../reports/PrepareFilesForUpload_render-PrepareFilesForUpload-HTML-C:\\User:
## $ args    : chr [1:5] "PrepareFilesForUpload.rmd" "render" "PrepareFilesForUpload" "HTML" ...
## $ pfn     : chr "../phenodata_20201113.txt"
## $ ffn     : chr ""
## $ outfn   : chr "PrepareFilesForUpload"
## $ rnwfn   : chr "PrepareFilesForUpload.rmd"
```

Information can be extracted from the list with information, e.g. assay name:

```
pini$A$name
```

```
## [1] "_A_02_Upload-R"
```

Many parts are present in dot-variables, for assay we have .a????:

```
.aname # pini$A$name
```

```
## [1] "_A_02_Upload-R"
```

```
.aroot # pini$A$root
```

```
## [1] "../.../..."
```

```
.ameta # pini$A$meta
```

```
## Key Value
## ---
## Assay: _A_02_Upload-R
## Short Name: 02_Upload-R
## Assay Class: DRY
## Assay Type: R
## Title: Test upload to FH
## Description: *
## pISA Assay creation date: 2021-10-21
## pISA Assay creator: Andrej Blejec
## Analyst: *
## Phenodata: ../../Phenodata_20201109.xlsx
## Featuredata:
## Data:
```

For other layers, shorter dot-variables are set `.s????`, `.i????` and `.p????`. Compare `pini` structure to construct other dot-names:

```
pini$inroot
```

```
## [1] "../../../input"
```

```
.inroot
```

```
## [1] "../../../input"
```

Prepare list of files

The most important task is to prepare the list of files to be uploaded. Typically one will upload files in one investigation, usually with all related branches (studies and assays). The metadata key “Upload to FAIRDOMHub” (Yes/No) controls if the layer (together with all subordinated layers) should be included or ignored by the upload process. In addition, specific files or paths can be declared as ignored by the upload process. File `seekignore.txt` in the investigation layer contains file names, directory names or name patterns that are used to filter and exclude the list of files to be uploaded. An example of the `seekignore` file is here:

```
seekignore <- readLines(file.path(.iroot, "seekignore.txt"))
seekignore
```

```
## [1] "# File patterns to be ignored by SEEK API upload"
## [2] "#"
## [3] "DoNotUpload/"
## [4] "other/"
## [5] "*.bat"
## [6] "_template.txt"
## [7] "common.ini"
## [8] "*.zip"
## [9] "*.tmp"
## [10] "*.log"
## [11] "_outputFile.R"
```

Lines three and four have slash (/) at the end to ignore directories. Line five and six will prevent upload of batch files and files with specific name (in any directory). One can add other patterns into the seekignore.txt file before running the code below.

Function `skFilesToUpload` will first create a list of files in root directory. Then, it will read the `seekignore.txt` and extend it with patterns of layers that should not be uploaded according to metadata key "Upload to FAIRDOMHub". In addition, `seekignore` list will be appended with the list of empty README.MD files that might clutter the FAIRDOMHub list of files. Then it will filter it according to declarations in the combined `seekignore` pattern list.

```
forUpload <- skFilesToUpload( root = pini$I$root)
```

```
## Ignored pISA layers: 0 / 4
## Ignoring 0 files [ DoNotUpload/ ]
## Ignoring 11283 files [ other/ ]
## Ignoring 14 files [ *\*.bat ]
## Ignoring 2 files [ _template\.txt ]
## Ignoring 2 files [ common\.ini ]
## Ignoring 0 files [ *\*.zip ]
## Ignoring 0 files [ *\*.tmp ]
## Ignoring 0 files [ *\*.log ]
## Ignoring 1 files [ _outputFile\.R ]
## Ignoring 1 files [ _S_01_Integ/_A_01_Desc-R/input/README\.MD ]
## Ignoring 0 files [ _S_01_Integ/_A_01_Desc-R/other/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_01_Desc-R/output/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_01_Desc-R/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_01_Desc-R/reports/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_01_Desc-R/scripts/README\.MD ]
## Ignoring 0 files [ _S_01_Integ/_A_01_Desc-R/X-other/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_02_Upload-R/input/README\.MD ]
## Ignoring 0 files [ _S_01_Integ/_A_02_Upload-R/other/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_02_Upload-R/output/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_02_Upload-R/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_02_Upload-R/reports/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/_A_02_Upload-R/scripts/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/README\.MD ]
## Ignoring 1 files [ _S_01_Integ/reports/README\.MD ]
## Ignoring 1 files [ XX/presentations/README\.MD ]
## Ignoring 1 files [ XX/README\.MD ]
## Ignoring 1 files [ XX/reports/README\.MD ]
## Files to upload: 242 / 11559
```

Final list of files for upload is

```
forUpload
```

```
## [1] "_INVESTIGATION_METADATA.TXT"
## [2] "_S_01_Integ/_A_01_Desc-R/_Assay_METADATA.TXT"
## [3] "_S_01_Integ/_A_01_Desc-R/50_Expression-water-stress_0.05-r.pdf"
## [4] "_S_01_Integ/_A_01_Desc-R/Definicije tipov - še en poskus.xlsx"
## [5] "_S_01_Integ/_A_01_Desc-R/Definicije tipov.xlsx"
## [6] "_S_01_Integ/_A_01_Desc-R/input/Featuredata-metabolites.txt"
## [7] "_S_01_Integ/_A_01_Desc-R/input/Metabolites 2018 2019.xlsx"
```

```

## [8] "_S_01_Integ/_A_01_Desc-R/input/Metabolites_2018-Nor2W_ISTD.txt"
## [9] "_S_01_Integ/_A_01_Desc-R/input/Metabolites_2018_2019-Nor2W_ISTD.xlsx"
## [10] "_S_01_Integ/_A_01_Desc-R/input/Metabolites_2018_raw_data.txt"
## [11] "_S_01_Integ/_A_01_Desc-R/input/Metabolites_2019-Nor2W_ISTD.txt"
## [12] "_S_01_Integ/_A_01_Desc-R/input/Metabolites_2019_raw_data.txt"
## [13] "_S_01_Integ/_A_01_Desc-R/input/Phenodata.xlsx"
## [14] "_S_01_Integ/_A_01_Desc-R/input/Stem water potential 2018 2019.txt"
## [15] "_S_01_Integ/_A_01_Desc-R/input/Stem water potential 2018 2019.xlsx"
## [16] "_S_01_Integ/_A_01_Desc-R/input/Transcripts 2018.txt"
## [17] "_S_01_Integ/_A_01_Desc-R/input/Transcripts 2018.xlsx"
## [18] "_S_01_Integ/_A_01_Desc-R/input/Transcripts 2019.txt"
## [19] "_S_01_Integ/_A_01_Desc-R/input/Transcripts 2019.xlsx"
## [20] "_S_01_Integ/_A_01_Desc-R/output/30_Expression-18-67-1-0.05-0.1-n/selectedGenesF67WS.txt"
## [21] "_S_01_Integ/_A_01_Desc-R/output/30_Expression-18-67-1-0.05-0.1/selectedGenesF67WS.txt"
## [22] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05-r-100/lm-fit-statistics.txt"
## [23] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05-r-100/TopTable.txt"
## [24] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05-r/lm-fit-statistics.txt"
## [25] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05-r/TopTable.txt"
## [26] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05/lm-fit-statistics.txt"
## [27] "_S_01_Integ/_A_01_Desc-R/output/40_Expression-water-stress-0.05/TopTable.txt"
## [28] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-2/lm-fit-means-swpXvariety-statistics.txt"
## [29] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-2/lm-fit-swpXvariety-statistics.txt"
## [30] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-2/swp-interpolated.txt"
## [31] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-2/TopTable.txt"
## [32] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-3/lm-fit-means-swpXvariety-statistics.txt"
## [33] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-3/lm-fit-swpXvariety-statistics.txt"
## [34] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-3/swp-interpolated.txt"
## [35] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1-3/TopTable.txt"
## [36] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1/lm-fit-means-swpXvariety-statistics.txt"
## [37] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1/lm-fit-swpXvariety-statistics.txt"
## [38] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1/swp-interpolated.txt"
## [39] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-1.5-0.5-1-1/TopTable.txt"
## [40] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1-2/lm-fit-means-swpXvariety-statistics.txt"
## [41] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1-2/lm-fit-swpXvariety-statistics.txt"
## [42] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1-2/swp-interpolated.txt"
## [43] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1-2/TopTable.txt"
## [44] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1/lm-fit-means-swpXvariety-statistics.txt"
## [45] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1/lm-fit-swpXvariety-statistics.txt"
## [46] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1/swp-interpolated.txt"
## [47] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-1.5-0.5-0.5-0.5-1/TopTable.txt"
## [48] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-2-0.5-1-0.5-1/lm-fit-means-swpXvariety-statistics.txt"
## [49] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-2-0.5-1-0.5-1/lm-fit-swpXvariety-statistics.txt"
## [50] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-2-0.5-1-0.5-1/lm-fit-swpXvariety-statistics.txt"
## [51] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-2-0.5-1-0.5-1/swp-interpolated.txt"
## [52] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r-2-2-0.5-1-0.5-1/TopTable.txt"
## [53] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r/lm-fit-means-swpXvariety-statistics.txt"
## [54] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r/lm-fit-swpXvariety-statistics.txt"
## [55] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r/swp-interpolated.txt"
## [56] "_S_01_Integ/_A_01_Desc-R/output/50_Expression-water-stress-0.05-r/TopTable.txt"
## [57] "_S_01_Integ/_A_01_Desc-R/output/55_Metabolites-water-stress-0.05-1.5-0.5-1-1-3/lm-fit-means-swpXvariety-statistics.txt"
## [58] "_S_01_Integ/_A_01_Desc-R/output/55_Metabolites-water-stress-0.05-1.5-0.5-1-1-3/lm-fit-swpXvariety-statistics.txt"
## [59] "_S_01_Integ/_A_01_Desc-R/output/55_Metabolites-water-stress-0.05-1.5-0.5-1-1-3/swp-interpolated.txt"
## [60] "_S_01_Integ/_A_01_Desc-R/output/55_Metabolites-water-stress-0.05-1.5-0.5-1-1-3/TopTable.txt"
## [61] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-1-1-2-3-4-5-6-7/edges_table-0_5_18-1-1-2-3-4-5-6-7"

```



```

## [116] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-19-3-1-2-3-4-5-6-7/network-0_5_18-19-3-1-2-3-4-5-6-7.t"
## [117] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-19-3-1-2-3-4-5-6-7/network-0_5_18-19-3-1-2-3-4-5-6-7.t"
## [118] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-19-3-1-2-3-4-5-6-7/network-0_7_18-19-3-1-2-3-4-5-6-7.t"
## [119] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-19-3-1-2-3-4-5-6-7/network-0_7_18-19-3-1-2-3-4-5-6-7.t"
## [120] "_S_01_Integ/_A_01_Desc-R/output/60_Trans-x-Meta-18-19-3-1-2-3-4-5-6-7/network-M.txt"
## [121] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1-3/lm-fit-means-swpXvariety-statistics.txt"
## [122] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1-3/lm-fit-swpXvariety-statistics.txt"
## [123] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1-3/network-0_8_18-19-1-1-2-3-4-5-6-7.t"
## [124] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1-3/swp-interpolated.txt"
## [125] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1-3/TopTable.txt"
## [126] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1/lm-fit-means-swpXvariety-statistics.txt"
## [127] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1/lm-fit-swpXvariety-statistics.txt"
## [128] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1/swp-interpolated.txt"
## [129] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-1.5-0.5-1-1/TopTable.txt"
## [130] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-100/TopTable.txt"
## [131] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-1.5-0.5-0.5-0.5-1-2/lm-fit-swpXvariety-statistics.txt"
## [132] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-1.5-0.5-0.5-0.5-1-2/swp-interpolated.txt"
## [133] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-1.5-0.5-0.5-0.5-1-2/TopTable.txt"
## [134] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-2-0.5-1-0.5-1/lm-fit-means-swpXvariety-statistics.txt"
## [135] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-2-0.5-1-0.5-1/lm-fit-swpXvariety-statistics.txt"
## [136] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-2-0.5-1-0.5-1/swp-interpolated.txt"
## [137] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r-2-2-0.5-1-0.5-1/TopTable.txt"
## [138] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r/lm-fit-means-swpXvariety-statistics.txt"
## [139] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r/lm-fit-means-swpXvariety-statistics.txt"
## [140] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r/lm-fit-swpXvariety-statistics.txt"
## [141] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r/swp-interpolated.txt"
## [142] "_S_01_Integ/_A_01_Desc-R/output/Interactive-0.05-r/TopTable.txt"
## [143] "_S_01_Integ/_A_01_Desc-R/output/Interactive-1-0.05-0.1-n/selectedGenesF67WS.txt"
## [144] "_S_01_Integ/_A_01_Desc-R/output/Interactive-1-0.05-0.1/selectedGenesF67WS.txt"
## [145] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/edges-0_5_18-1-1-2-3-4-5-6-7.t"
## [146] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/edges-0_5_18-1-1-2-3-4-5-6-7.t"
## [147] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/edges-0_8_18-1-1-2-3-4-5-6-7.t"
## [148] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/loadings-metabolite-18-1-1-2-3-4-5-6-7.t"
## [149] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/network-0_5_18-1-1-2-3-4-5-6-7.t"
## [150] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-1-2-3-4-5-6-7/network-0_8_18-1-1-2-3-4-5-6-7.t"
## [151] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2-3-4-5-6-7-8/loadings-metabolite-18-1-2-3-4-5-6-7-8.t"
## [152] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2-3/loadings-metabolite.txt"
## [153] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2-3/loadings-transcripts.txt"
## [154] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2-3/network-0_5_18-1-2-3.pdf"
## [155] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2-3/network-M.txt"
## [156] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1-2/net.gml"
## [157] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/edges-0_5_18-1-1-2-3-4-5-6-7.t"
## [158] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/edges18-1.txt"
## [159] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/loadings-metabolite-18-1.txt"
## [160] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/network-0_5_18-1.gml"
## [161] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/network-0_5_18-1.pdf"
## [162] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/network-0_8_18-1-1-2-3-4-5-6-7.pdf"
## [163] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-1/network-0_8_18-1.pdf"
## [164] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-1-1-2-3-4-5-6-7/edges_table-0_8_18-19-1-1-2-3-4-5-6-7.t"
## [165] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-1-1-2-3-4-5-6-7/loadings-metabolite-18-19-1-1-2-3-4-5-6-7.t"
## [166] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/cutoff.txt"
## [167] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/edges_table-0_7_18-19-2-1-2-3-4-5-6-7.t"
## [168] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/loadings-genes-18-19-2-1-2-3-4-5-6-7.t"
## [169] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/loadings-metabolite-18-19-2-1-2-3-4-5-6-7.t"

```

```

## [170] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/network-0_5_18-19-2-1-2-3-4-
## [171] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/network-0_7_18-19-2-1-2-3-4-
## [172] "_S_01_Integ/_A_01_Desc-R/output/Interactive-18-19-2-1-2-3-4-5-6-7/network-0_7_18-19-2-1-2-3-4-
## [173] "_S_01_Integ/_A_01_Desc-R/output/topTable18.txt"
## [174] "_S_01_Integ/_A_01_Desc-R/reports/10_DataPreparation_.pdf"
## [175] "_S_01_Integ/_A_01_Desc-R/reports/20_Expression-lm_.pdf"
## [176] "_S_01_Integ/_A_01_Desc-R/reports/30_Expression-18-67_1-0.05-0.1-n.pdf"
## [177] "_S_01_Integ/_A_01_Desc-R/reports/30_Expression-18-67_1-0.05-0.1.pdf"
## [178] "_S_01_Integ/_A_01_Desc-R/reports/30_Expression-18-67_201206.pdf"
## [179] "_S_01_Integ/_A_01_Desc-R/reports/40_Expression-water-stress_0.05-r-100.pdf"
## [180] "_S_01_Integ/_A_01_Desc-R/reports/40_Expression-water-stress_0.05-r.pdf"
## [181] "_S_01_Integ/_A_01_Desc-R/reports/40_Expression-water-stress_0.05.pdf"
## [182] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-1.5-0.5-1-1-2.pdf"
## [183] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-1.5-0.5-1-1-3.pdf"
## [184] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-1.5-0.5-1-1.pdf"
## [185] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-r-2-1.5-0.5-0.5-0.5-1-2.pdf"
## [186] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-r-2-1.5-0.5-0.5-0.5-1.pdf"
## [187] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-r-2-2-0.5-1-0.5-1.pdf"
## [188] "_S_01_Integ/_A_01_Desc-R/reports/50_Expression-water-stress_0.05-r.pdf"
## [189] "_S_01_Integ/_A_01_Desc-R/reports/55_Metabolites-water-stress_0.05-1.5-0.5-1-1-3.pdf"
## [190] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-1-1-2-3-4-5-6-7.pdf"
## [191] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-19-1-1-2-3-4-5-6-7.pdf"
## [192] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-19-1-2-3-4-5-6-7-V3.pdf"
## [193] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-19-2-1-2-3-4-5-6-7.pdf"
## [194] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-19-3-1-2-3-4-5-6-7.pdf"
## [195] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_18-19-V3-1-2-3-4-5-6-7.pdf"
## [196] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_19-1-1-2-3-4-5-6-7.pdf"
## [197] "_S_01_Integ/_A_01_Desc-R/reports/60_Trans-x-Meta_V3-18-19-1-2-3-4-5-6-7.pdf"
## [198] "_S_01_Integ/_A_01_Desc-R/scripts/10_DataPreparation.Rnw"
## [199] "_S_01_Integ/_A_01_Desc-R/scripts/10a_Read-Data.Rnw"
## [200] "_S_01_Integ/_A_01_Desc-R/scripts/10b_Boxplots-and-profiles.Rnw"
## [201] "_S_01_Integ/_A_01_Desc-R/scripts/10c_Interaction-plots.Rnw"
## [202] "_S_01_Integ/_A_01_Desc-R/scripts/20_Expression-lm.Rnw"
## [203] "_S_01_Integ/_A_01_Desc-R/scripts/20a_limma-fit.Rnw"
## [204] "_S_01_Integ/_A_01_Desc-R/scripts/20aa_interaction-plots.rnw"
## [205] "_S_01_Integ/_A_01_Desc-R/scripts/20bExpression-for-variety.Rnw"
## [206] "_S_01_Integ/_A_01_Desc-R/scripts/30_Expression-18-67.Rnw"
## [207] "_S_01_Integ/_A_01_Desc-R/scripts/30a_limma-fit.Rnw"
## [208] "_S_01_Integ/_A_01_Desc-R/scripts/40_Expression-water-stress.Rnw"
## [209] "_S_01_Integ/_A_01_Desc-R/scripts/40a_limma-fit-swp.Rnw"
## [210] "_S_01_Integ/_A_01_Desc-R/scripts/40aa_one-gene-plots.Rnw"
## [211] "_S_01_Integ/_A_01_Desc-R/scripts/50_Expression-water-stress.Rnw"
## [212] "_S_01_Integ/_A_01_Desc-R/scripts/50a_limma-fit-swp.Rnw"
## [213] "_S_01_Integ/_A_01_Desc-R/scripts/50aa_one-gene-plots.Rnw"
## [214] "_S_01_Integ/_A_01_Desc-R/scripts/50ab_Water-potential.Rnw"
## [215] "_S_01_Integ/_A_01_Desc-R/scripts/50b_Water-potential.Rnw"
## [216] "_S_01_Integ/_A_01_Desc-R/scripts/50c_limma-fit-swp.Rnw"
## [217] "_S_01_Integ/_A_01_Desc-R/scripts/55_Metabolites-water-stress.Rnw"
## [218] "_S_01_Integ/_A_01_Desc-R/scripts/55aa_one-gene-plots.Rnw"
## [219] "_S_01_Integ/_A_01_Desc-R/scripts/55c_limma-fit-swp.Rnw"
## [220] "_S_01_Integ/_A_01_Desc-R/scripts/60_Trans-x-Meta.Rnw"
## [221] "_S_01_Integ/_A_01_Desc-R/scripts/60a_mixomics.Rnw"
## [222] "_S_01_Integ/_A_01_Desc-R/scripts/60b_mixomics.Rnw"
## [223] "_S_01_Integ/_A_01_Desc-R/scripts/60ba_weights_statistics.Rnw"

```



```

## [224] "_S_01_Integ/_A_01_Desc-R/scripts/99_parts_dump.Rnw"
## [225] "_S_01_Integ/_A_01_Desc-R/scripts/Nonparametric.Rnw"
## [226] "_S_01_Integ/_A_01_Desc-R/scripts/stereo.Rnw"
## [227] "_S_01_Integ/_A_02_Upload-R/_Assay_METADATA.TXT"
## [228] "_S_01_Integ/_A_02_Upload-R/scripts/PrepareFilesForUpload.rmd"
## [229] "_S_01_Integ/_STUDY_METADATA.TXT"
## [230] "_S_01_Integ/Stem water potential 2018 2019.xlsx"
## [231] "Bin_selection.txt"
## [232] "Bin_selection_2.txt"
## [233] "Featuredata_metabolites_210127.txt"
## [234] "Phenodata.xlsx"
## [235] "Phenodata_20201109.txt"
## [236] "Phenodata_20201109.xlsx"
## [237] "seekignore.txt"
## [238] "Transcripts 2018.xlsx"
## [239] "Transcripts 2019.xlsx"
## [240] "Transcripts1819-02.txt"
## [241] "Transcripts1819-unique.txt"
## [242] "Transcripts1819.txt"

```

Prepare connection with FAIRDOMHub

##! In another file, to be appended