

The bootstrap procedure

Set up required data and software

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Science for sustainable seas

TAF bootstrap procedure



All data and software used in TAF analyses are *declared and described* using metadata files:

DATA.bib

SOFTWARE.bib

The metadata files are *processed* using the R function

```
taf.bootstrap()
```

Metadata

DATA.bib describes data that will be used in the analysis

Each metadata entry looks like this:

```
@Misc{PLE7DFleet_2016.txt,  
  originator = {WGNSSK},  
  year       = {2016},  
  title      = {Survey indices: UK_BTS, FR_GFS, IN_YFS},  
  period     = {1987-2015},  
  source     = {file},  
}
```

The R function `draft.data()` can be helpful

SOFTWARE.bib describes software that will be used in the analysis

Each metadata entry looks like this:

```
@Manual{FLAssess,  
  author = {Laurie T Kell},  
  year   = {2015},  
  title  = {{FLAssess}: Generic classes and  
           methods for stock assessment models},  
  version = {2.5, committed 2015-07-17},  
  source  = {f1r/FLAssess@5102b97},  
}
```

The R function `draft.software()` can be helpful

The `taf.bootstrap()` function



This function should be called from the *top directory* of a TAF analysis

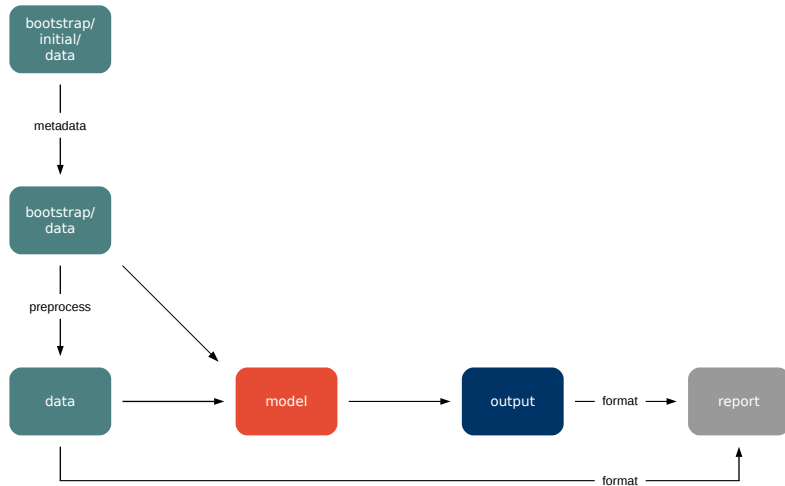
It looks for a directory called `bootstrap` and prepares data files and software according to `metadata` specifications

The `taf.bootstrap()` function

After the bootstrap procedure, data and software have been documented and are ready to be used in the subsequent analysis:

- bootstrap/`config` with model configuration files
- bootstrap/`data` with data files
- bootstrap/`library` with R packages compiled for the local platform
- bootstrap/`software` with software files, such as R packages in `tar.gz` source code format

Data flow



BIB entries overview - <https://github.com/ices-taf/doc/wiki/Bib-entries>

Examples of data records -

<https://github.com/ices-taf/doc/wiki/Example-data-records>