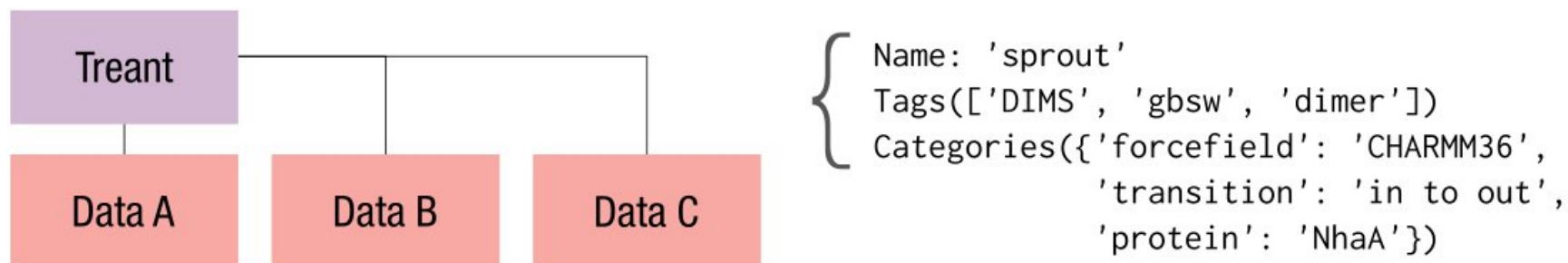


MDSynthesis is built to make data efficient storage and recall pythonic.



Treants can store identifying metadata that can be used to differentiate them from other **Treants**, but their main purpose is to store datasets, in particular pandas objects and numpy arrays using the efficient HDF5 data format.

Treants live in the filesystem as directory trees, with a state file storing their state persistently on disk as they are used.

```
sprout/  
├── Treant.bc5c5c78-83d5-4164-85b9-e069367ae00a.h5  
└── something_wicked  
    └── pdData.h5
```

The same **Treant** can be used in multiple independent python sessions, since it stores no state in memory.