Basic Hands-on Usage of VisTrails
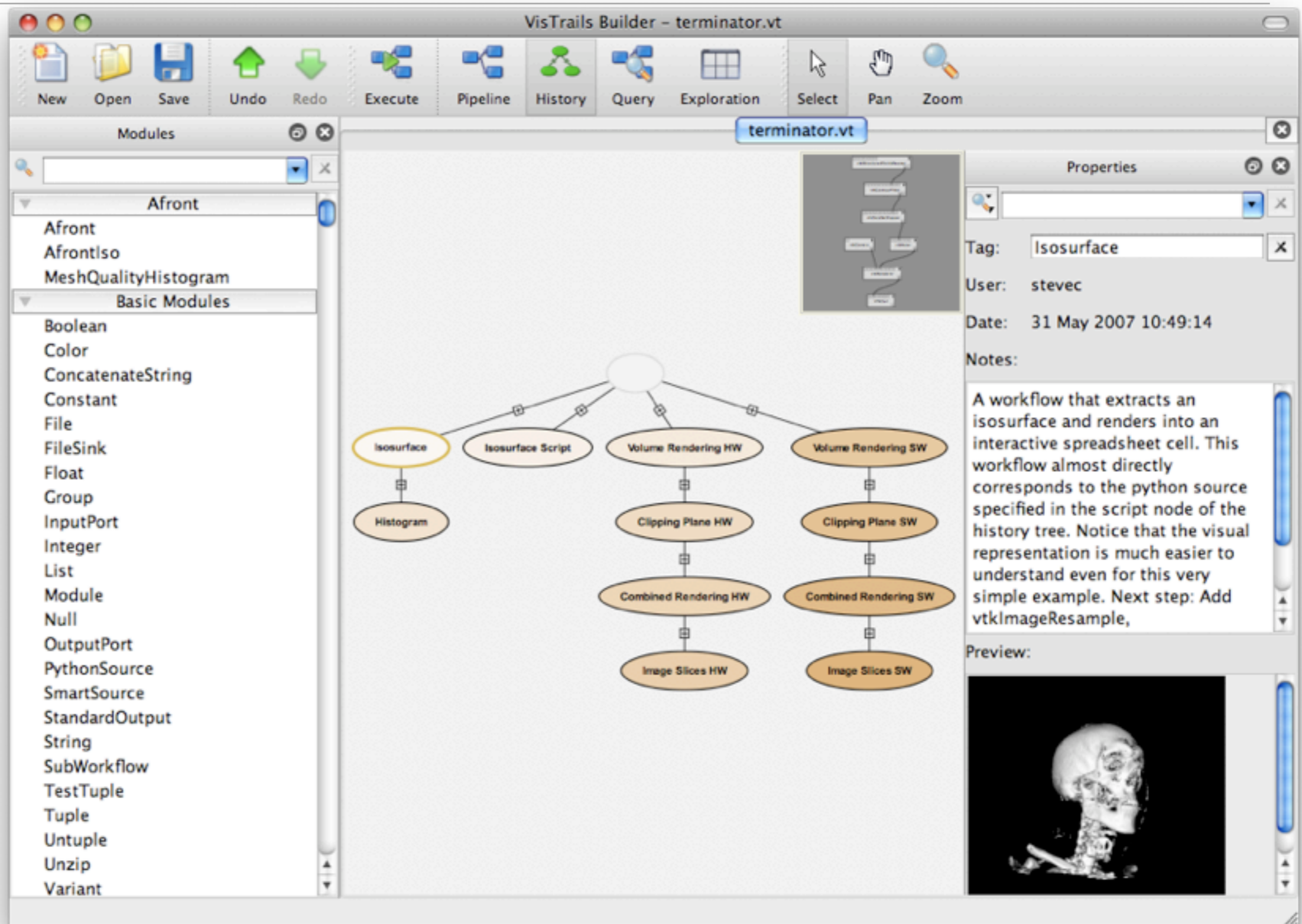
Agenda

- Building simple pipelines

- Using the spreadsheet

- Using PythonSource

- Connecting to databases

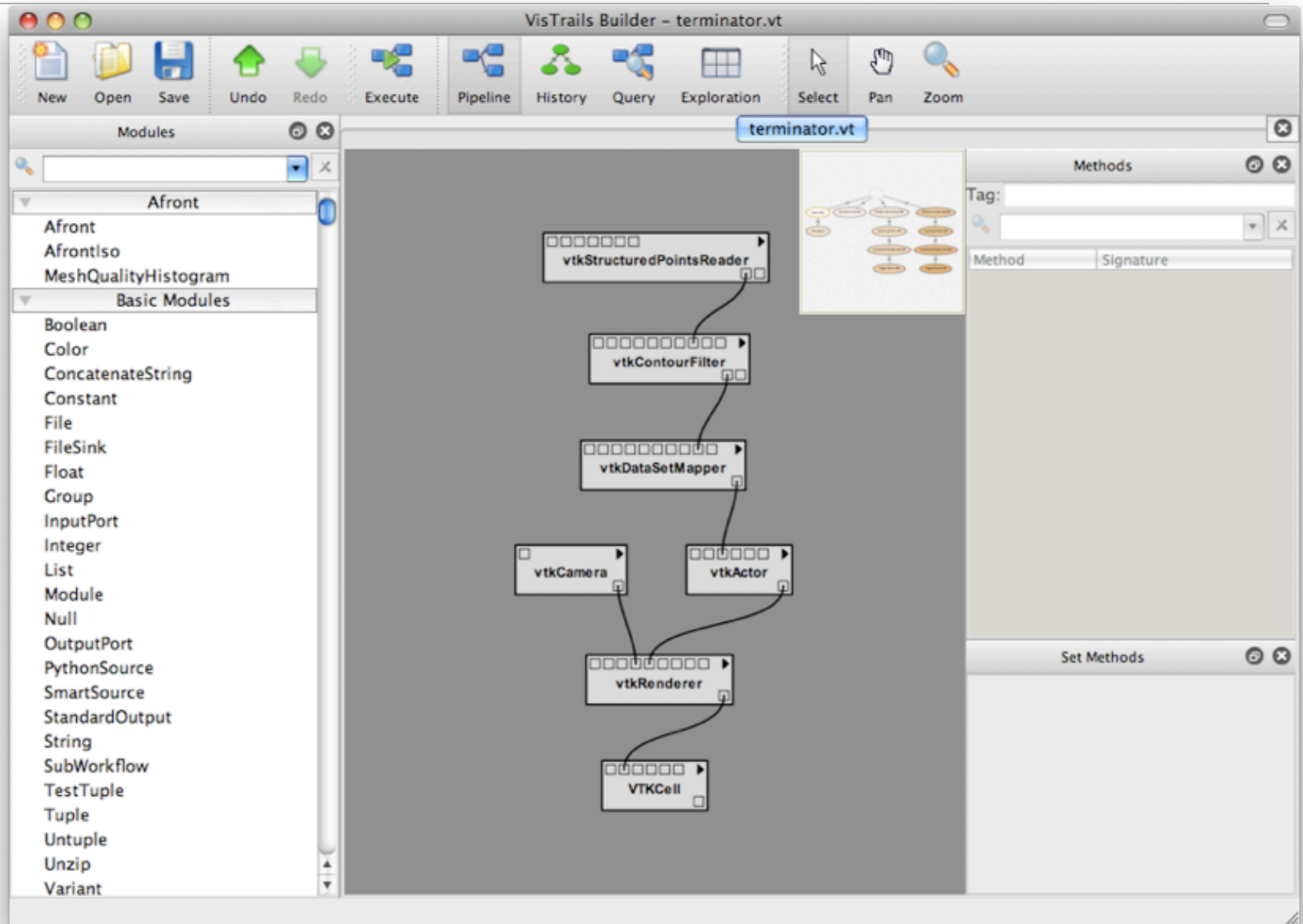- VisTrails as a server

Building simple pipelines

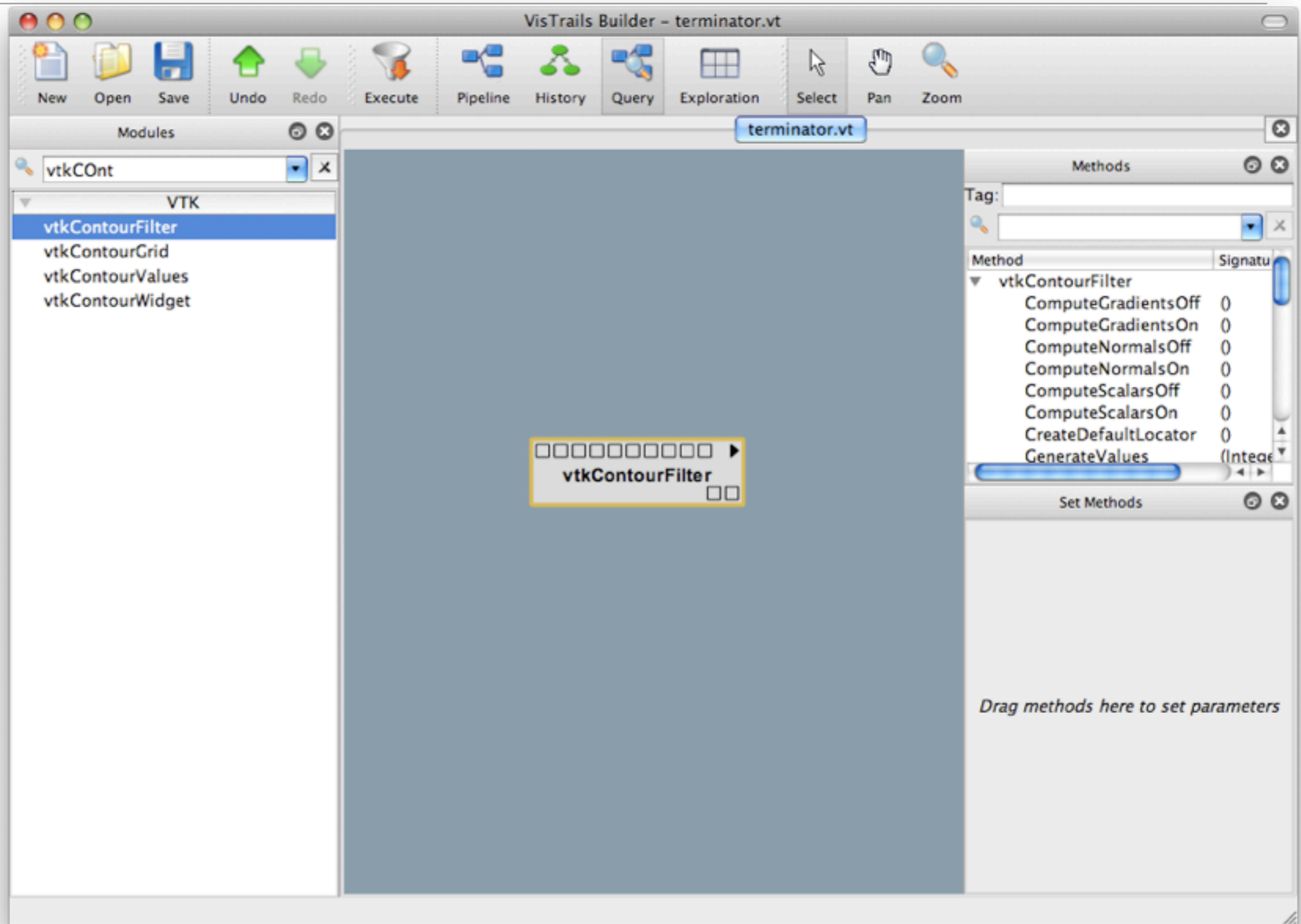# VisTrails Builder overview

History View

VisTrails Builder overview
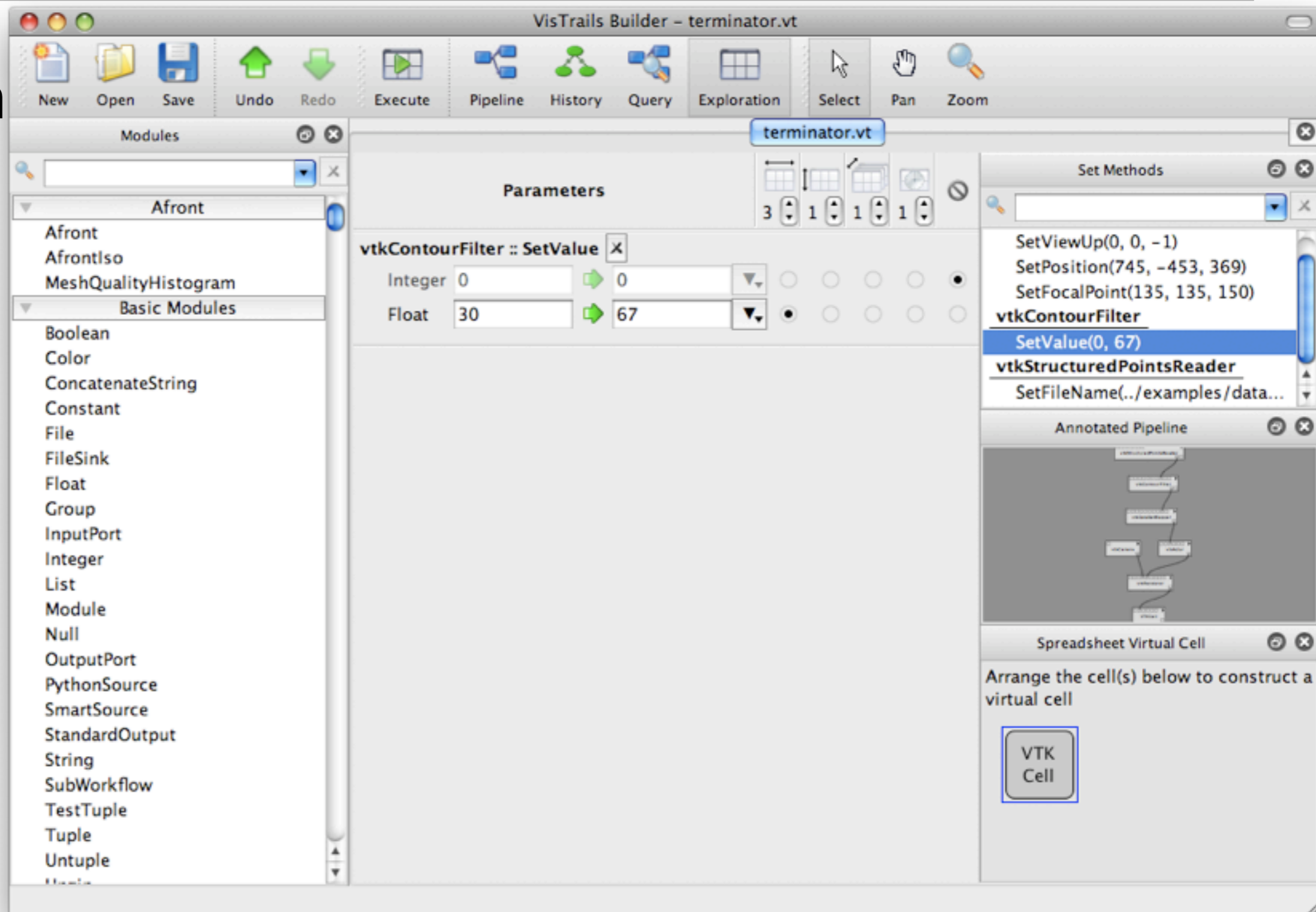
Pipeline
View

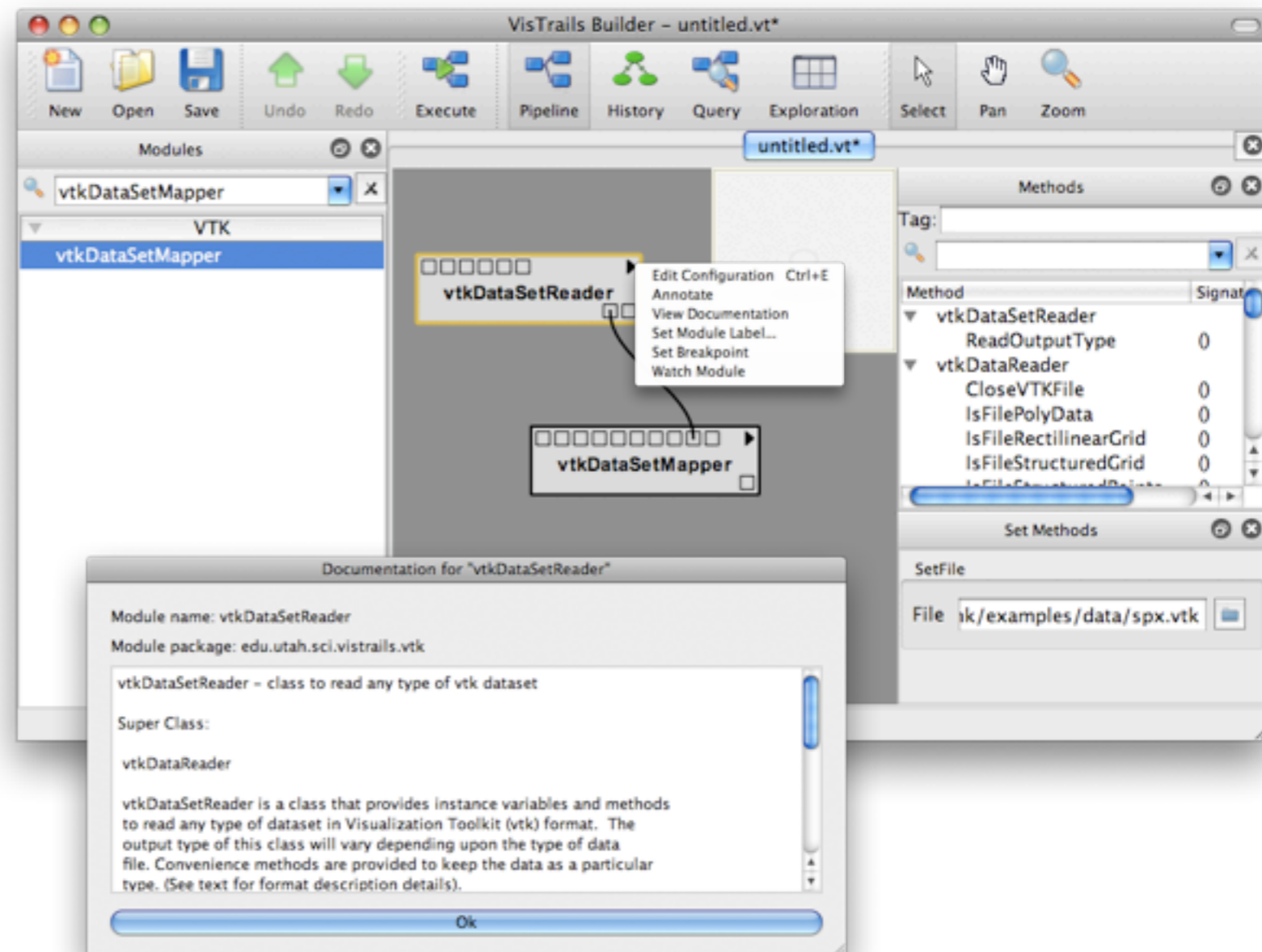# VisTrails Builder overview

Query
View

VisTrails Builder overview

Exploration
View

Manipulating modules and connections

- Adding/removing modules

- Adding/removing connections

    - Input and Output ports

    - The "snap" feature

- Setting parameters

- Setting module labels

- Accessing module documentation

- Modules for displaying results in the spreadsheet

Using the spreadsheet

Spreadsheet overview

- Types of cells
- Controls
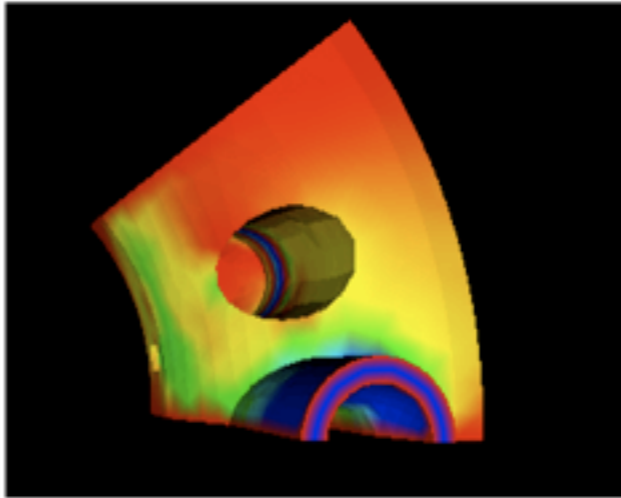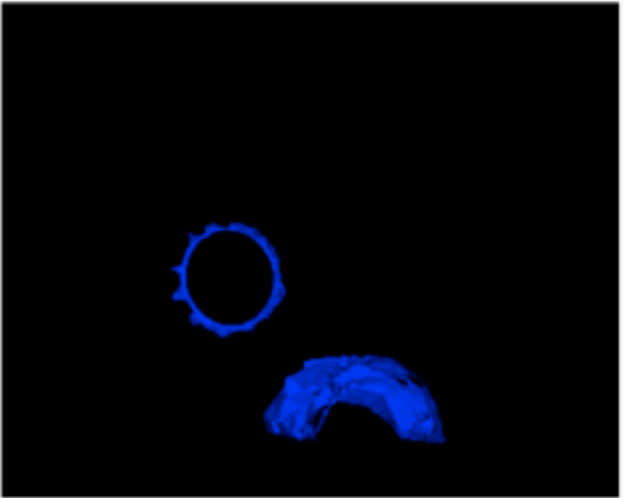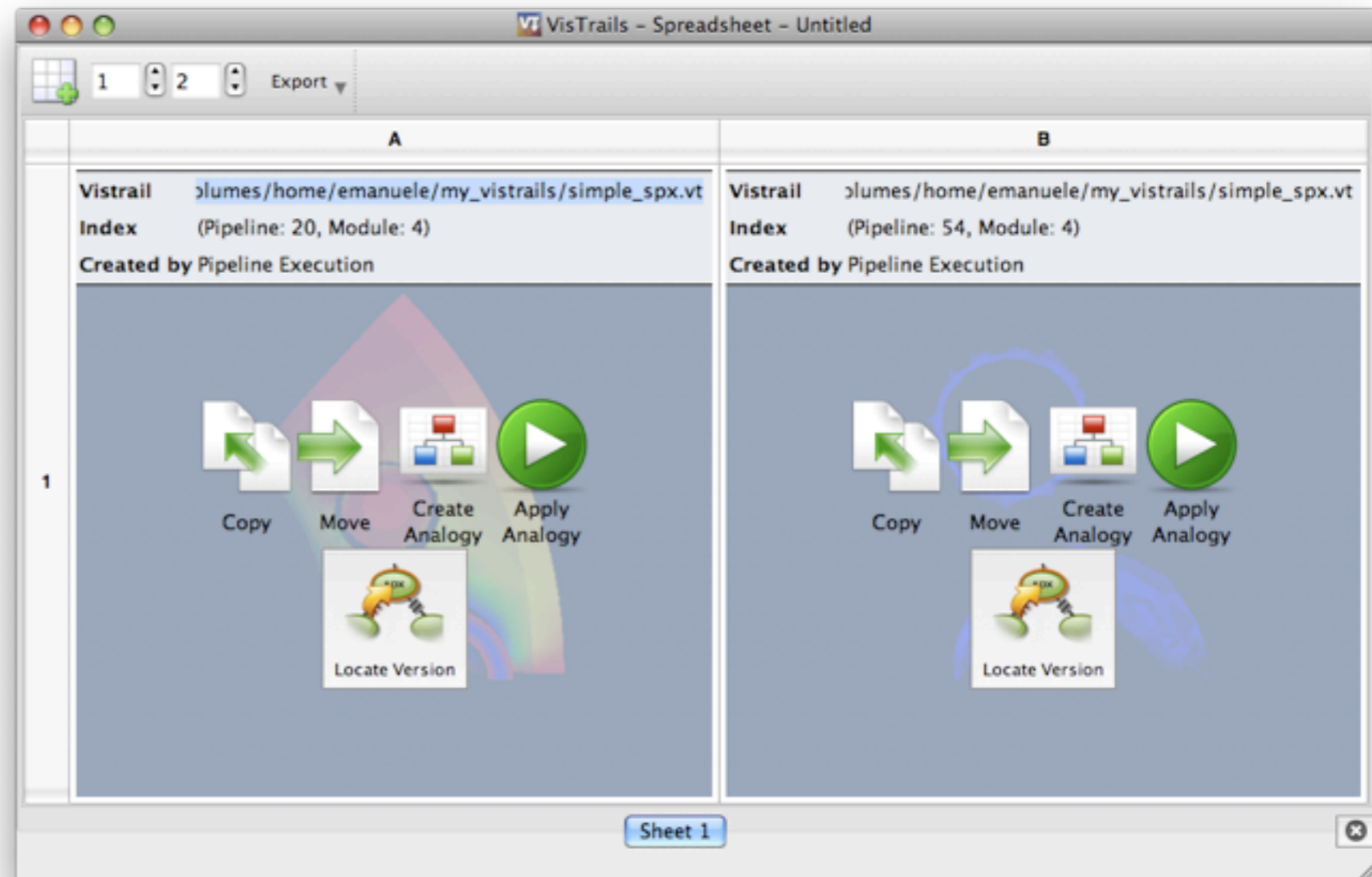
Interacting with cells

- Syncing cells

- Moving cells

- Saving camera

- Using the Edit mode functionality

Using PythonSource

PythonSource configuration

Connecting to databases

Defining custom database connections
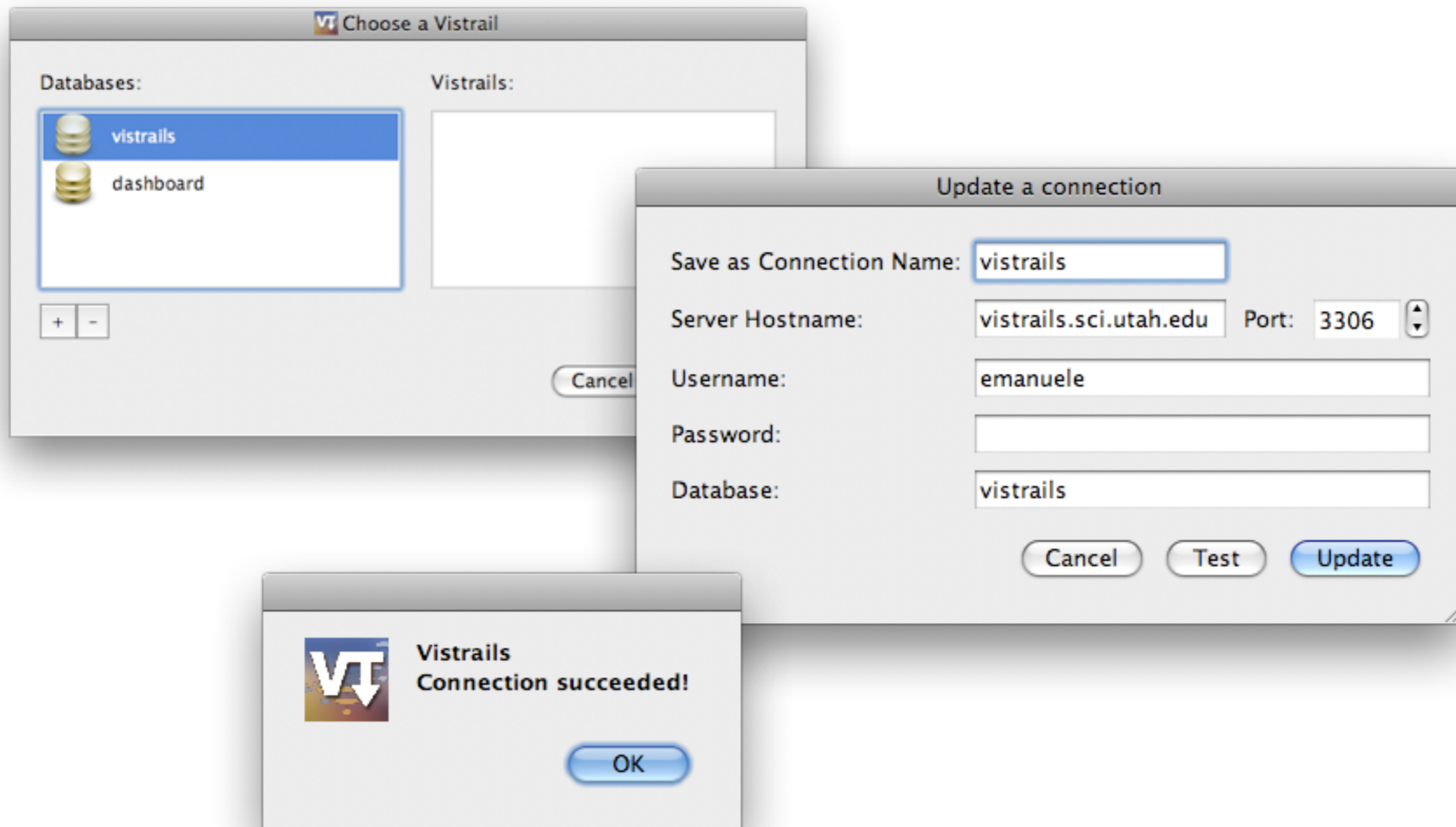
Loading a vistrail from the database

Saving a vistrail to the database

Saving to db vs. saving to file

- What is included in a .vt file

    - vistrail

    - log

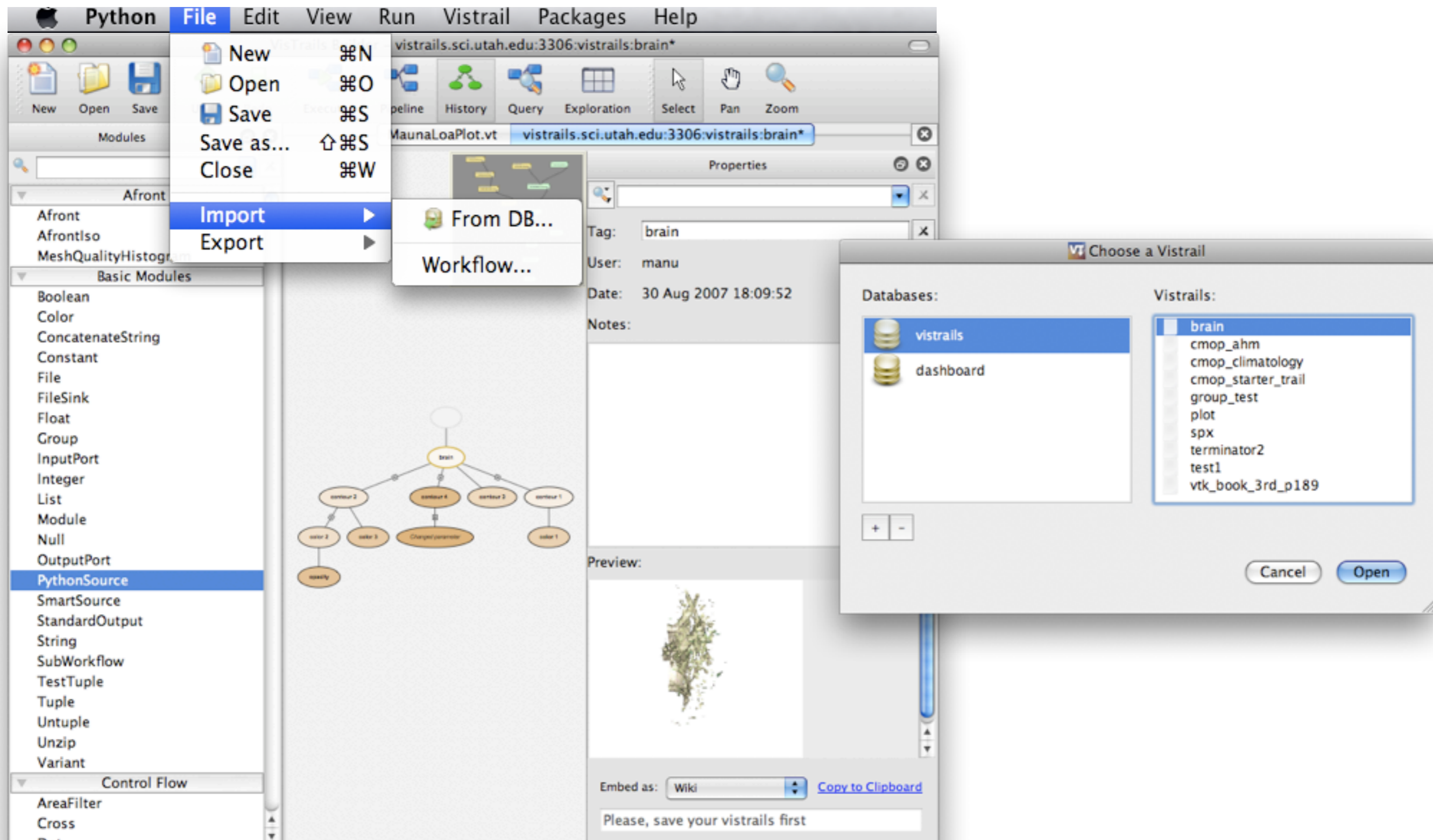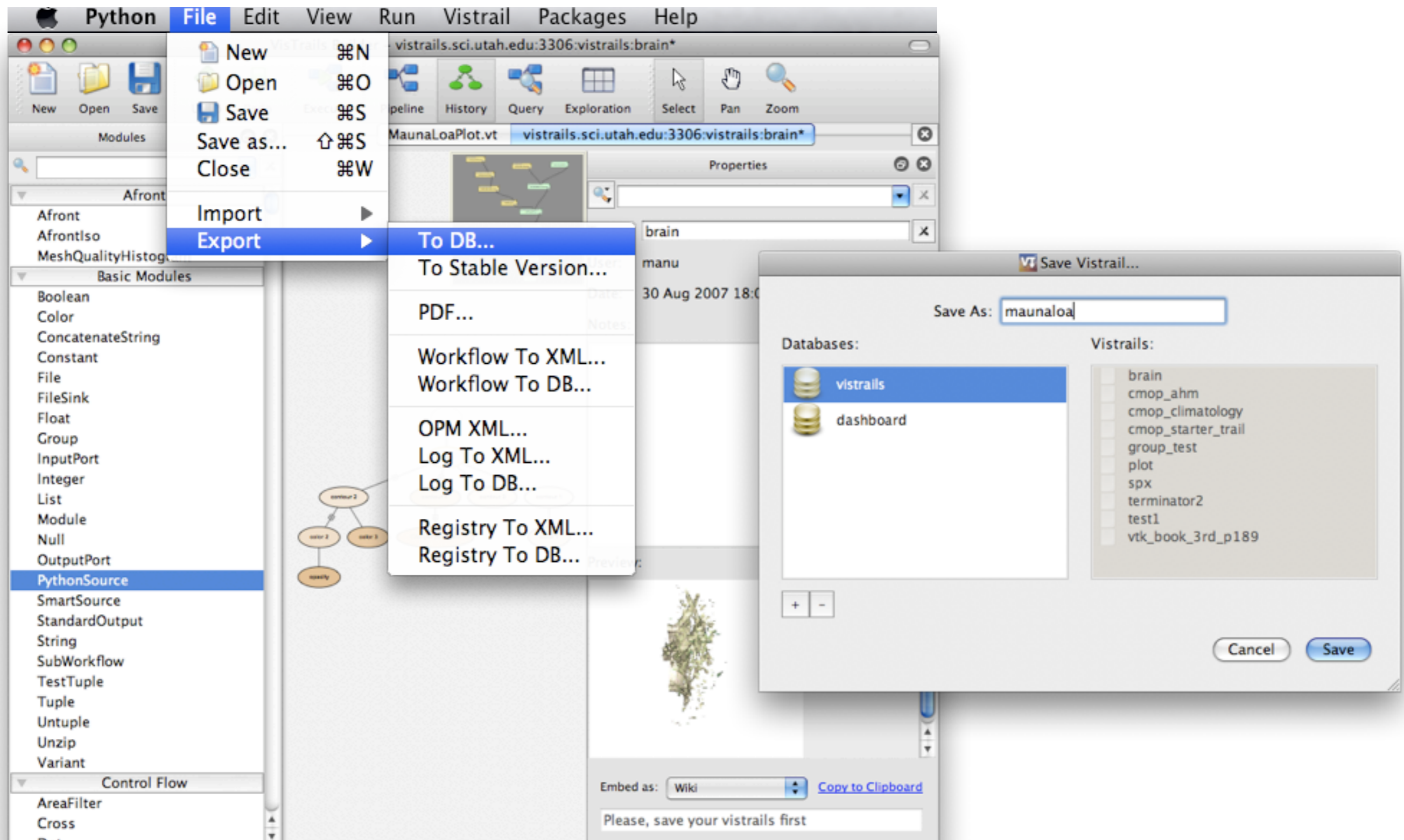   - thumbnails

    - submodules

- What is supported when saving to the database

VisTrails as a server

Environment setup

- Defining list of allowed clients

- Defining host and port

Running VisTrails in server mode

- Types of requests

  - Getting the list of available vistrails in the database

  - Getting a vistrail in XML format

  - Getting a specific pipeline in a vistrail in XML format

  - Executing a pipeline and getting the result images

- Examples of scripts

  - PHP

  - Python