BYOI: Additional topics

Some more topics.

Parameters

- luigi has typed parameters
- `DateTimeParameter` for things that need to be done regularly

Parameters

```python
class CrossrefHarvestChunk(CrossrefTask):
    """
    Harvest a slice of Crossref.

    API docs: http://api.crossref.org/

    The output file is line delimited JSON,
    just the concatenated responses.
    """
    begin = luigi.DateParameter()
    end = luigi.DateParameter()
    ...
```
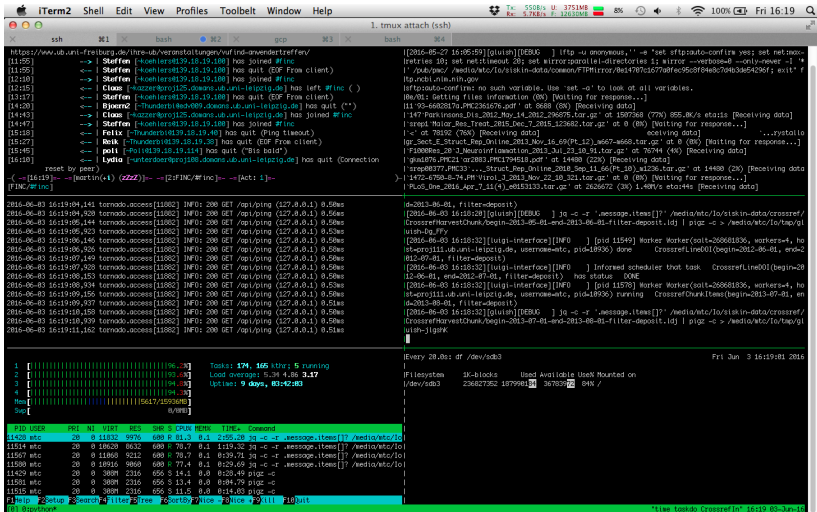
Workers

Figure 1: workers

Hooks

- luigi has two hooks, `on_success` and `on_failure`

Gluish

- small helper library for luigi
- ubleipzig/gluish

Go

- compiled, statically linked
- great standard library
- focus on simplicity

Go

- nice XML and JSON bindings in standard library
- JSON example: doaj/document.go
- complex XML example: elsevier/dataset.go