Creating publication quality workflows with Snakemake and Github

Publication quality workflows

- who

- what
    - documenting things

- why

- how

Continuous integration and Github actions

```
.github/workflows/*.yml
```

Snakemake layout

```
├── README.md # Must contain keywords snakemake and workflow
├── LICENSE.md # I use MIT
├── .gitignore
├── workflow
│       ├── rules # snakemake files (must have .smk suffix)
│       │       ├── module.smk
│       ├── envs # conda yamls
│       │       ├── env.yaml
│       │       └── R.yaml
│       ├── scripts # any script used by the workflow
│       │       ├── script.py
│       ├── notebooks
│       │       ├── notebook.py.ipynb
│       ├── report # see the report() function
│       │       ├── plot.rst
│       └── Snakefile
├── config
│       ├── README.md
│       ├── config.yaml
│       └── manifest.tsv
└── results # results of the workflow
```

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