



# Autosubmit and GIT New projects

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# Outline

- Introduction
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- New projects
- Experiment arguments
- GIT scheme
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- References

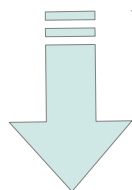
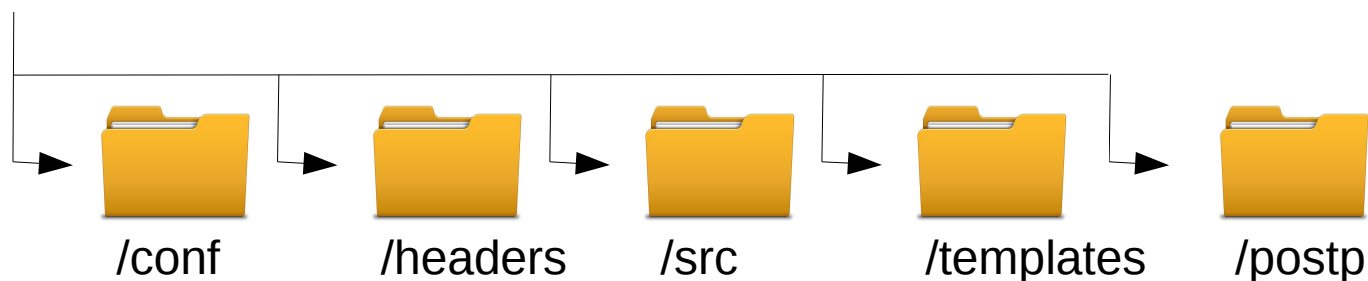


# Introduction

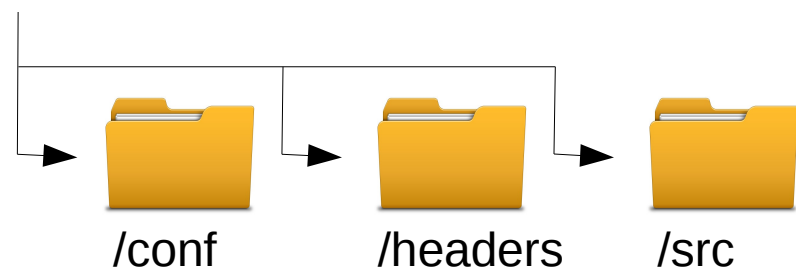
- Avoid messing up people's work
- Move towards an environment that ensures a long-term sustainable development
- Templates and postp suffer changes that may be useful to track in a GIT project separate from Autosubmit
- Model sources and setup changes can be tracked in a GIT project
- Leads to a better and safer usage of different versions

# Structure changes

/autosubmit



/autosubmit



/templates



/ocean  
diagnostics



/model  
sources

# New projects

- Templates

```
Switched to branch 'common'
dmanubens@turing:~/tmp/templates$
├── conf
│   └── common.conf
├── templates
│   └── common
│       ├── common.localsetup
│       ├── common.localtrans
│       └── common.remotesetup
```

```
Switched to branch 'eearth3'
dmanubens@turing:~/tmp/templates$
├── conf
│   └── eearth3.conf
├── templates
│   └── eearth3
│       ├── eearth3.clean
│       ├── eearth3.ini
│       ├── eearth3.post
│       └── eearth3.sim
```

- Ocean diagnostics

```
Already on 'master'
dmanubens@turing:~/tmp/ocean_diagnostics$
├── common_ocean_post.txt
├── config_file-ocean_pp.bash
├── ocean_pp.bash
└── README
```

- Models

```
* master
dmanubens@turing:~/tmp/eearth3$
├── doc
├── runtime
└── sources
```



# Experiment arguments

- Before

```
python expid.py -h
```

```
usage: expid.py [-h] (--new {eearth,eearth3,ifs,ifs3,nemo} | --copy COPY)
               --HPC {bsc,hector,ithaca,lindgren,ecmwf,marenostrom3}
               --description DESCRIPTION
```

```
python expid.py --new eearth --HPC ithaca --description "experiment is about..."
```

- After

```
python expid.py -h
```

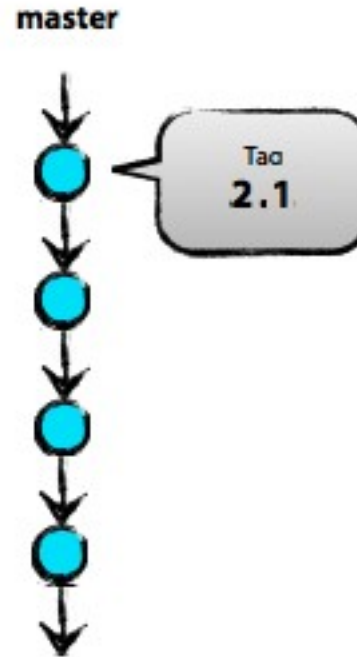
```
usage: expid.py [-h] (--new | --copy COPY)
               --HPC {bsc,hector,ithaca,lindgren,ecmwf,marenostrom3}
               --model_name {eearth,eearth3,ifs,ifs3,nemo}
               [--model_branch MODEL_BRANCH]
               [--template_branch TEMPLATE_BRANCH]
               [--common_template_branch COMMON_TEMPLATE_BRANCH]
               [--ocean_diagnostics_branch OCEAN_DIAGNOSTICS_BRANCH]
               --description DESCRIPTION
```

```
python expid.py --new --HPC ithaca --model_name nemo --description "experiment is about..."
```

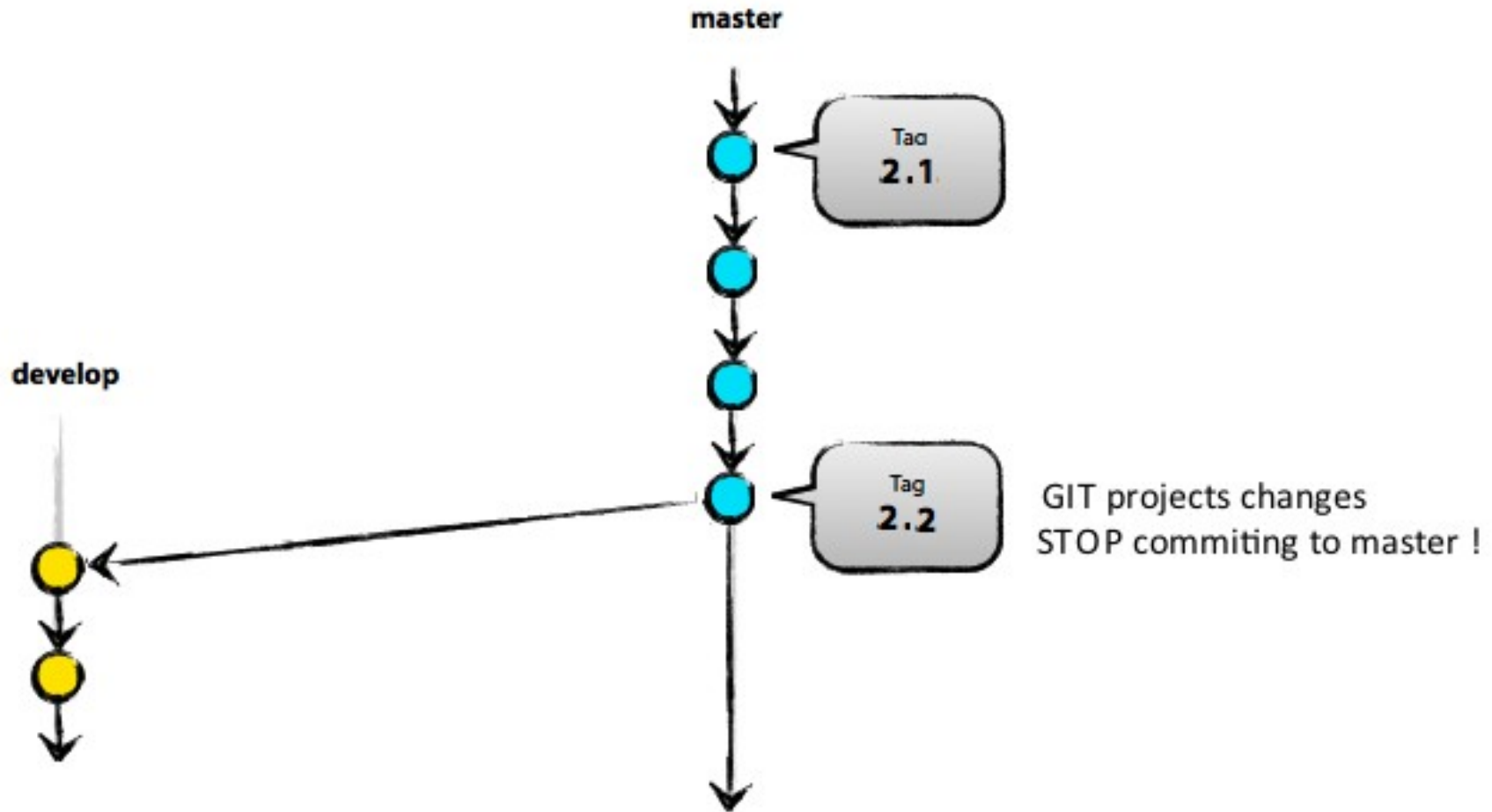
```
python expid.py --new --HPC ithaca --model_name eearth3 --model_branch develop-nudging
               --template_branch develop-nudging --description "experiment is about..."
```

# GIT scheme

- Currently

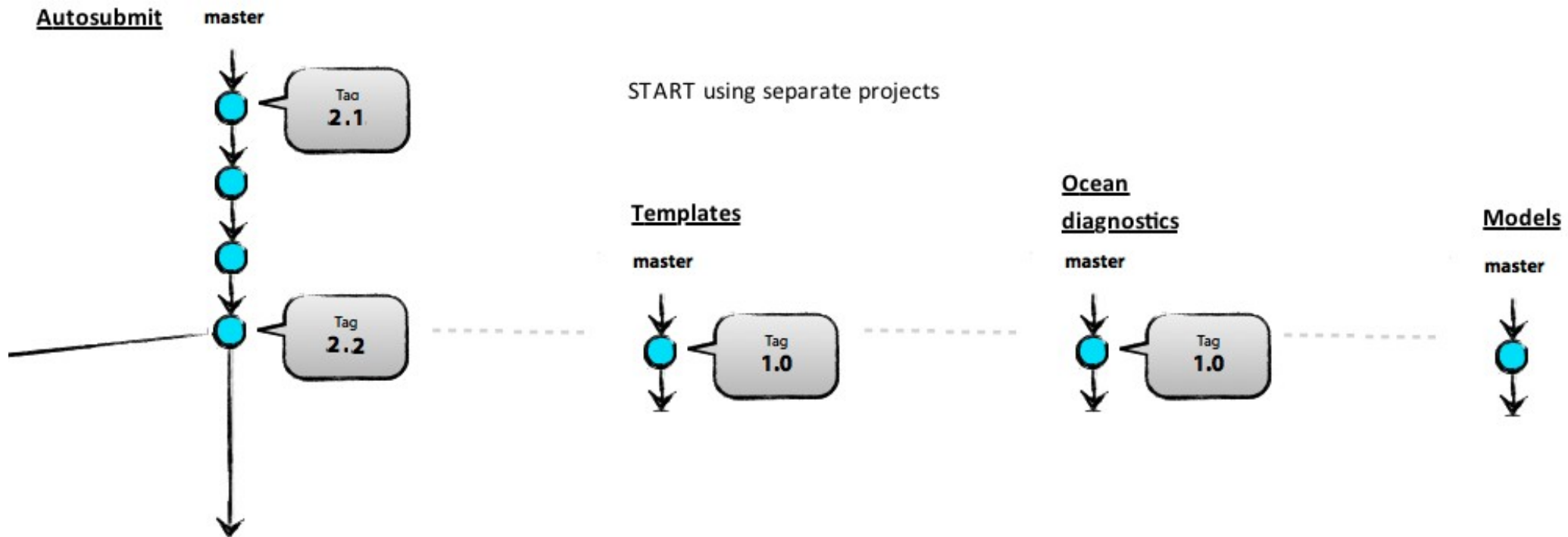


- Structure and projects changes

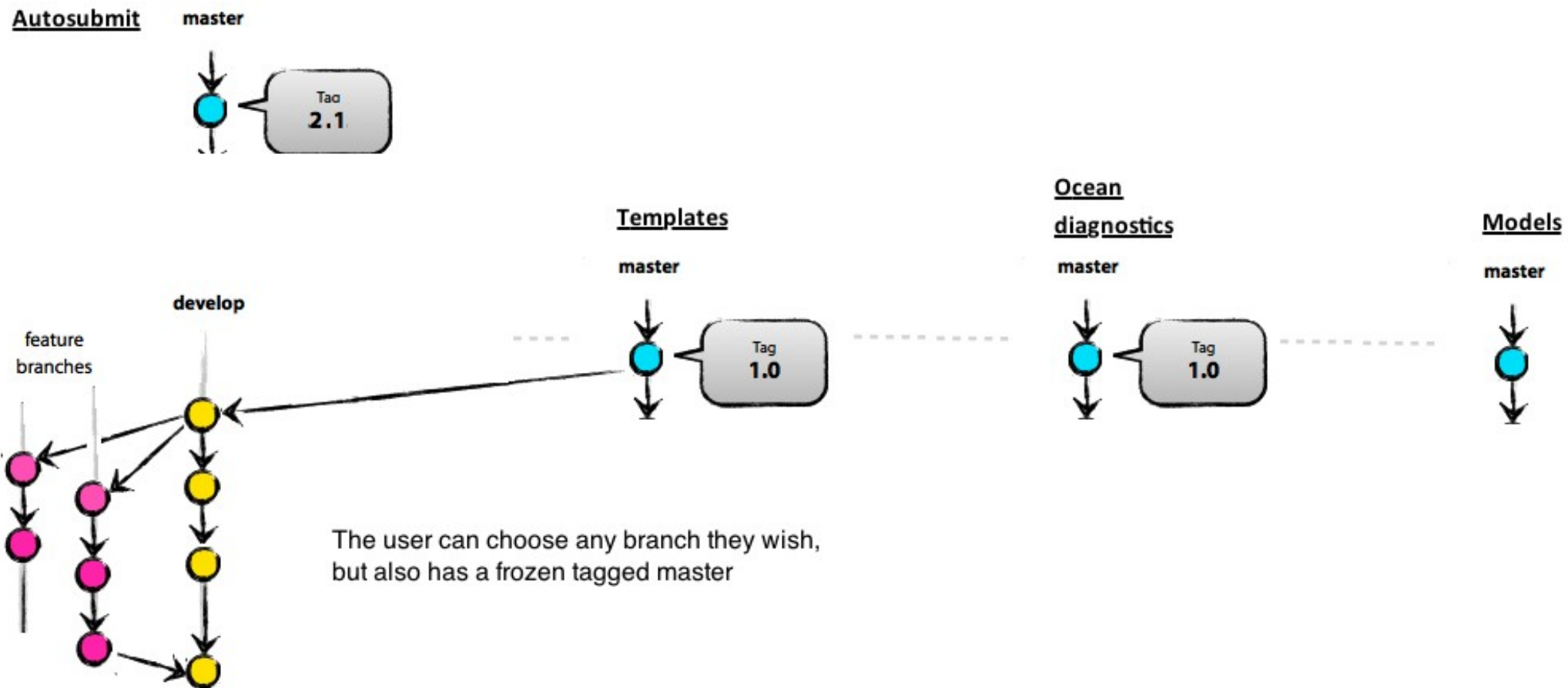




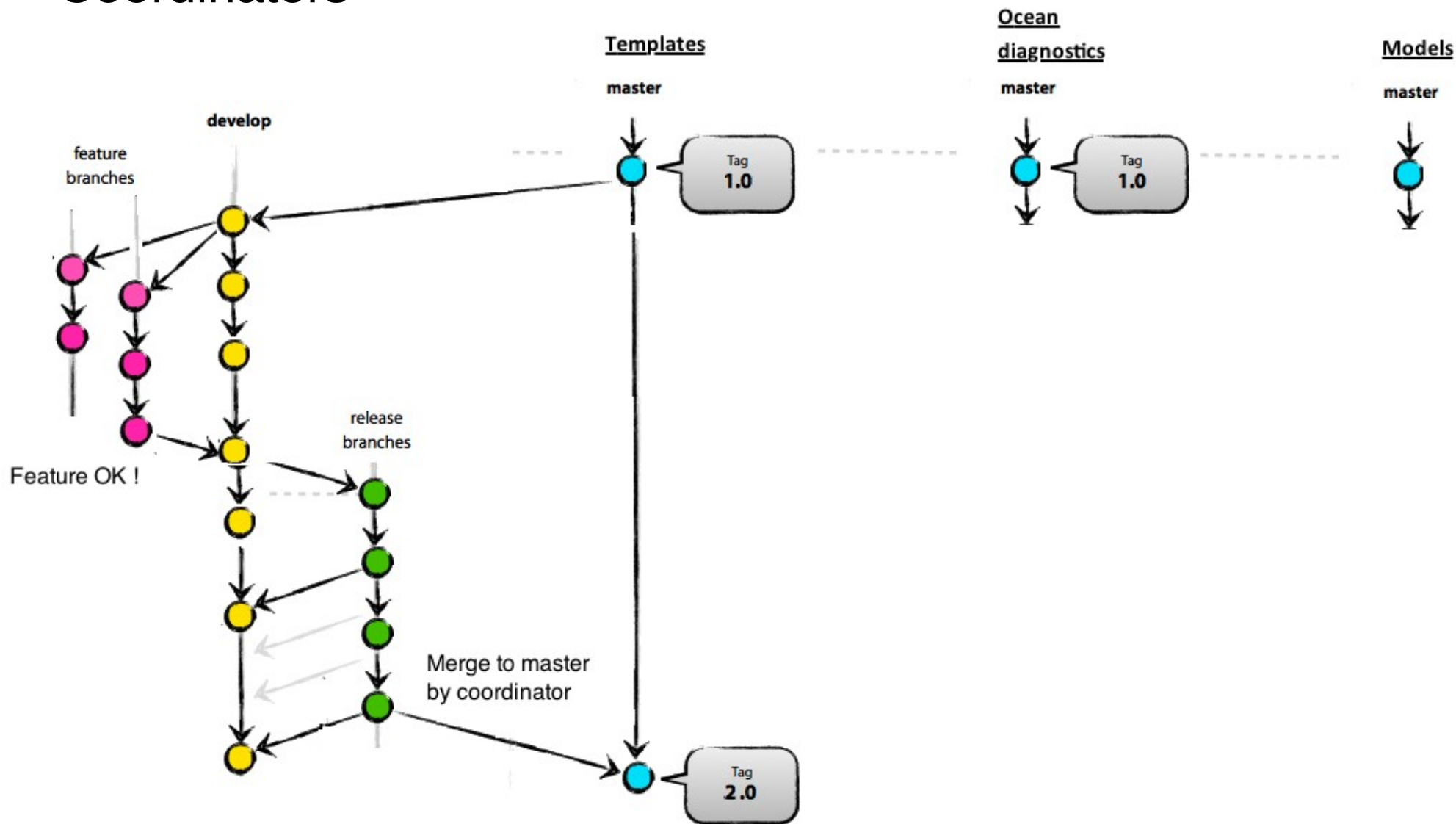
- After changes



- Develop branches



- Releasing
- Coordinators





# Collaboration

- Wiki as reference for developers
- Every language has a wiki page with its style guide
- Every tool has a link to style guide, coordinator name and repository link on its wiki page



# References

- [/cfu/pub/tutorials/git/codeschool](#)



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