



AWI-CM3 hands-on-course: Part 6 Source code modifications

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Personal changes / Scientific work



- Start from latest tagged version
- Make a branch based off the tag
- Modify code
- Run simulations
- Move on

```
master
v3.0
v3.1
L> v3.1+myfeature
```

Your changes are not fed back to the master branch Changes are not part of any tagged version Changes don't interfer with colleagues work



New permanent feature



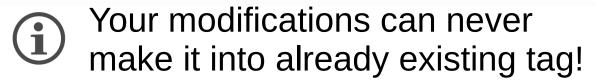
- Start from latest master
- Make a branch based off the master
- Develop feature
- Test
- Make merge request
- Feature is merged back to master

Once we have enough / big enough changes we will tune & run evalulation experiments (~1000 model years in total).

When we are happy with the results a **new tagged version** e.g. v3.2 will be **made from master**.

```
master
L> master+myfeature
L> master+someones_elses_feature1
L> master+someones_elses_feature2
v3.0
v3.1
```

```
master
L> prep_release_v3.2
L> v3.2
v3.0
v3.1
```





New permanent feature



If you base your scientific work on the master branch, expect other merged features to interfer.

The master branch ≠ best branch!

Extensive tests for major releases can not be done too often.

→ Release schedule ~6 Months

```
master
L> master+myfeature
L> master+someones_elses_feature1
L> master+someones_elses_feature2
v3.0
v3.1
```

```
master
L> prep_release_v3.2
L> v3.2
v3.0
v3.1
```

