

# s2dverification

Update meeting – 10/07/2014

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# Outline

- Current state
- Releasing
- Branching
- Current developments
- OpenDAP
- Parallelism in R
- Next tasks
- Comments & requests

# Current state

## History

- » CFU\_tools
- » s2dv2
- » s2dv2.1 ← Last meeting
- » s2dv2.1.1
- » s2dv2.1.2 ← Currently

# Current state

## s2dv2.1.1

- Bug fixes (`Clim()`, `Season()`, `Smoothing()`, `Plot2VarsVsLTime()`)
- Bugs with new CDO fixed
- Under GPLv3
- Example datasets and code
  - Example code in .Rd files, please always provide (GITLab will require it)
  - Code run at 'R CMD check s2dverification\_2.y.z.tar.gz'
  - Disable with 'R CMD check --no-examples s2dverifi...'
- On CRAN with a very simple `Load()`
  - Please use TRUE/FALSE instead of T/F

# Current state

s2dv2.1.2

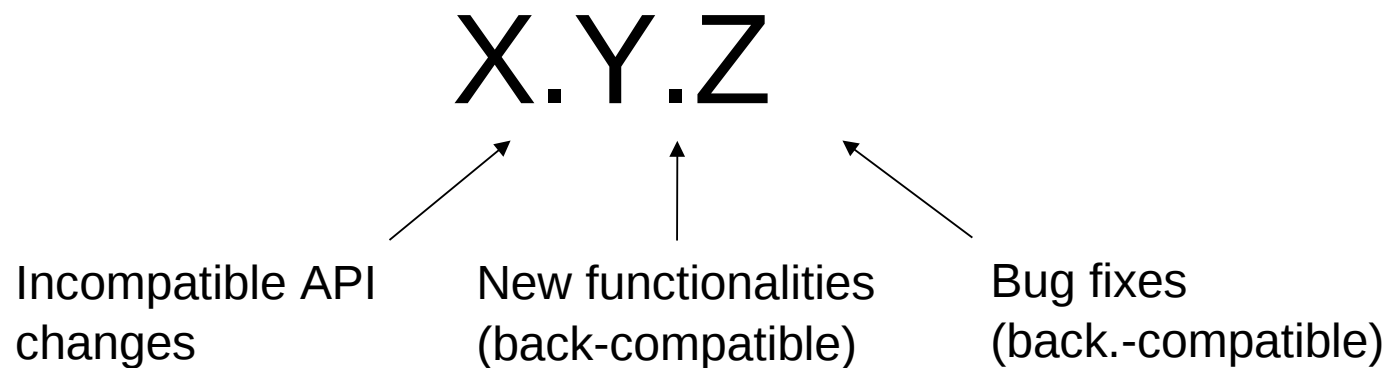
- Bug fix of CDO bug fix

... how often should we release? ...

... how do we test before releasing? ...

# Releasing

## Semantic Versioning (<http://semver.org>)



### – How often?

- By now, every time it's needed.

# Releasing

## Test period before releasing.

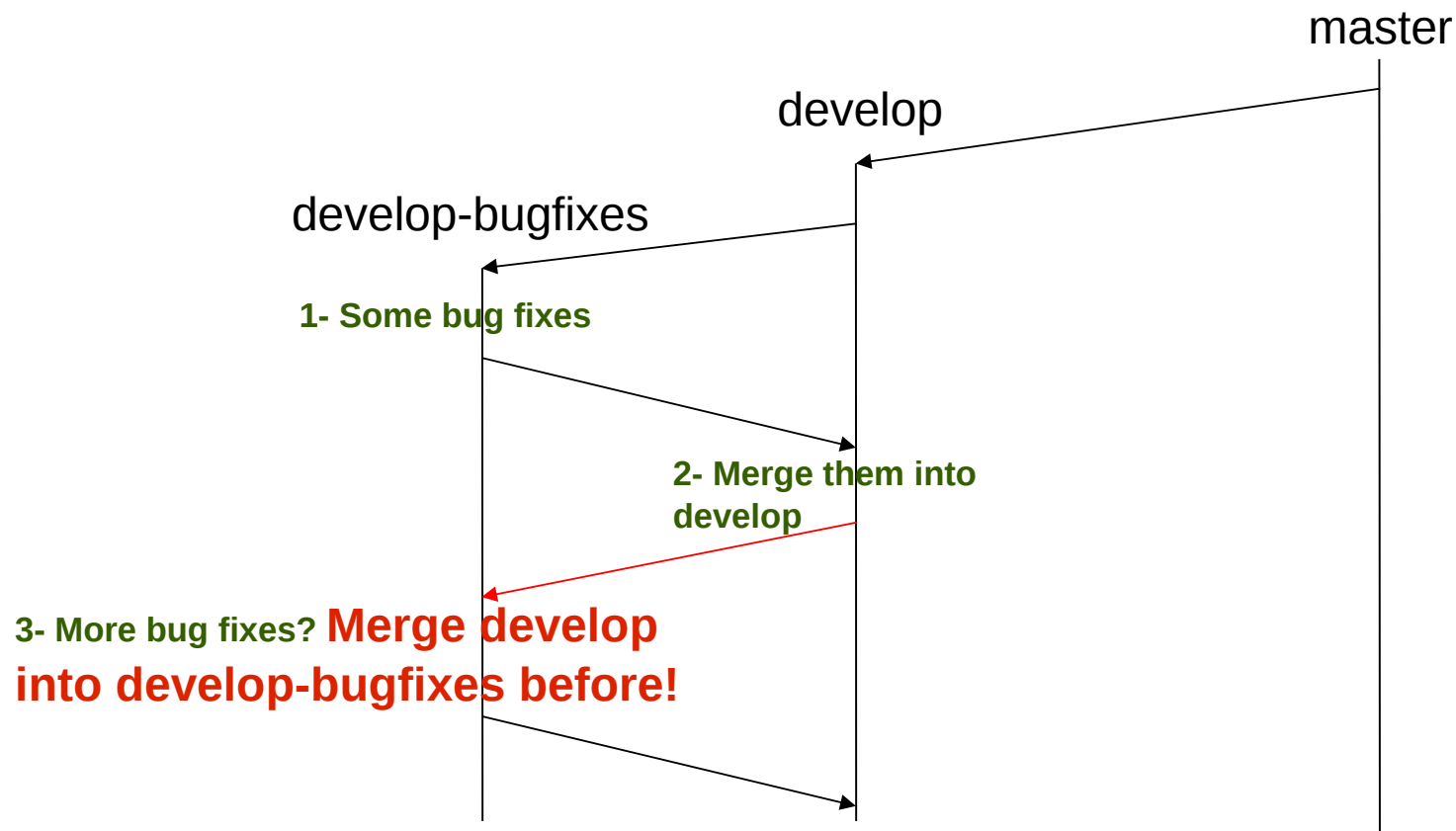
- New feature is ready in branch 'develop-feature'
- Merge request to the package coordinator, choosing who should test the code
- 'develop-feature' merged into 'develop' branch
- Version in 'develop' is installed in an isolated environment for testing (module load R-dev)
- Testers perform tests in the isolated environment
- Bug fixes are performed in 'release' branch
- When it's over, the feature is merged into 'master' and released

**... how long should the period be?**

**what tests should be performed? ...**

# Branching

## How to use 'develop-bugfixes'





# Current developments

Branch name	Active	Usable	Ready to be tested
develop-ACC_bootstrap	Y		
deveop-ACC_permutation	Y		
develop-Load-ice	Y		
develop-Load_extreme-var	Y		
develop-PlotStereoMap	Y	Y	Y
develop-cluster01	Y		
develop-parallel	Y	Y	N
develop-paths	N	N	N

- What is the state? Is there any trouble?
- Any missing?
- Remove merged branches

# OpenDAP

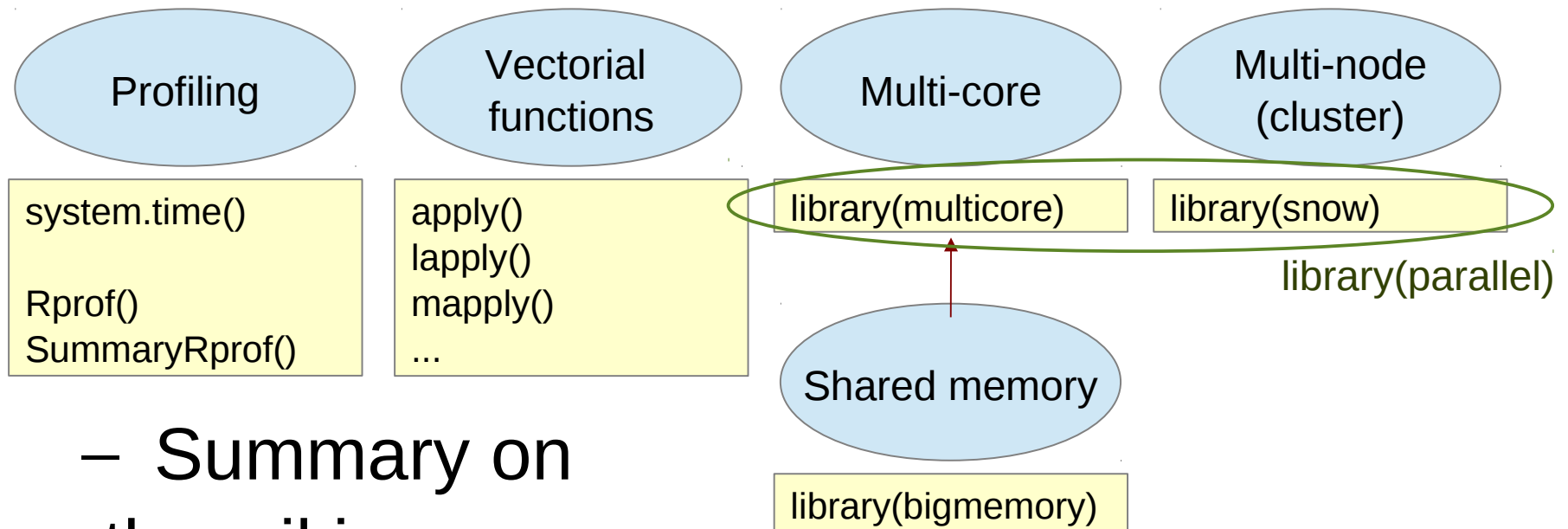
- Can help reducing time
- Can help simplifying the code
- Can't help simplifying paths
- Needs NCDF4
  - Change function calls in Load()

# OpenDAP

- Can help reducing time
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# Parallelism in R

## Concepts and tools



- Summary on the wiki soon
- Hands on session?

# Next tasks

- Improve parallel Load()
- Configuration file to add datasets and variables (+ OpenDAP + NCDF4)
- Add eigentechniques and other functions
- Improve Corr(), RMS(), RMSSS(), ...

# Comments & requests

- SpecsVerification already on CRAN!
  - Should it be required by s2dverification?