

Scrum and agile continued Integration and testing

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2019-02-04

Practical issues

- **Sprint planning meeting** to take place at end of week, preferably Friday Feb 8.
- D1-D3 arrange with product owner Sven
- MM arrange with product owner Lars
- Deadline for team agreement Feb 11, but you can of course turn it in earlier.
- Don't forget proposals for student representatives.

Regarding study week 8

March 11 - 15

(week 2 in sprint 2)

- Reflection meetings with Becky on March 11 (or March 14) See doodle in Canvas.
- Regular team meetings March 11 only if you want to (we can change the time).
- Lena's experience: not much happens in project during week 8, since exam for EDA223 is Monday in exam week.
- Teams usually make up for that in the later half of exam week.

Scrum

- It is a way to organise the work and to make sure feedback is used to improve practices
- But it does not define the “product work” itself.

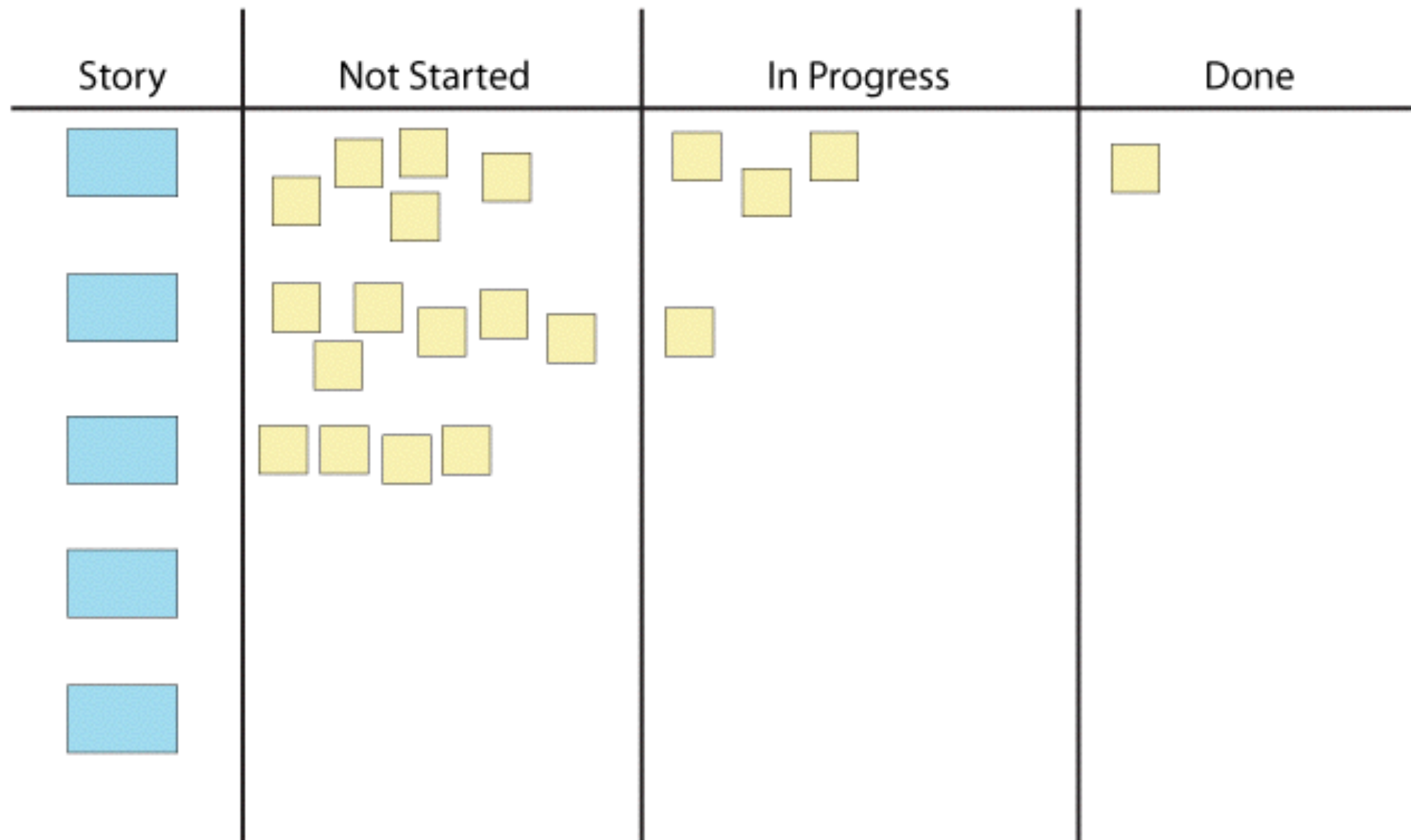
Scrum pillars

- Which are the three Scrum pillars?
 1. T....
 2. I....
 3. A...

Scrum pillars

- Which are the three Scrum pillars?
 1. Transparency
 2. Introspection
 3. Adaptation

Scrum board concept

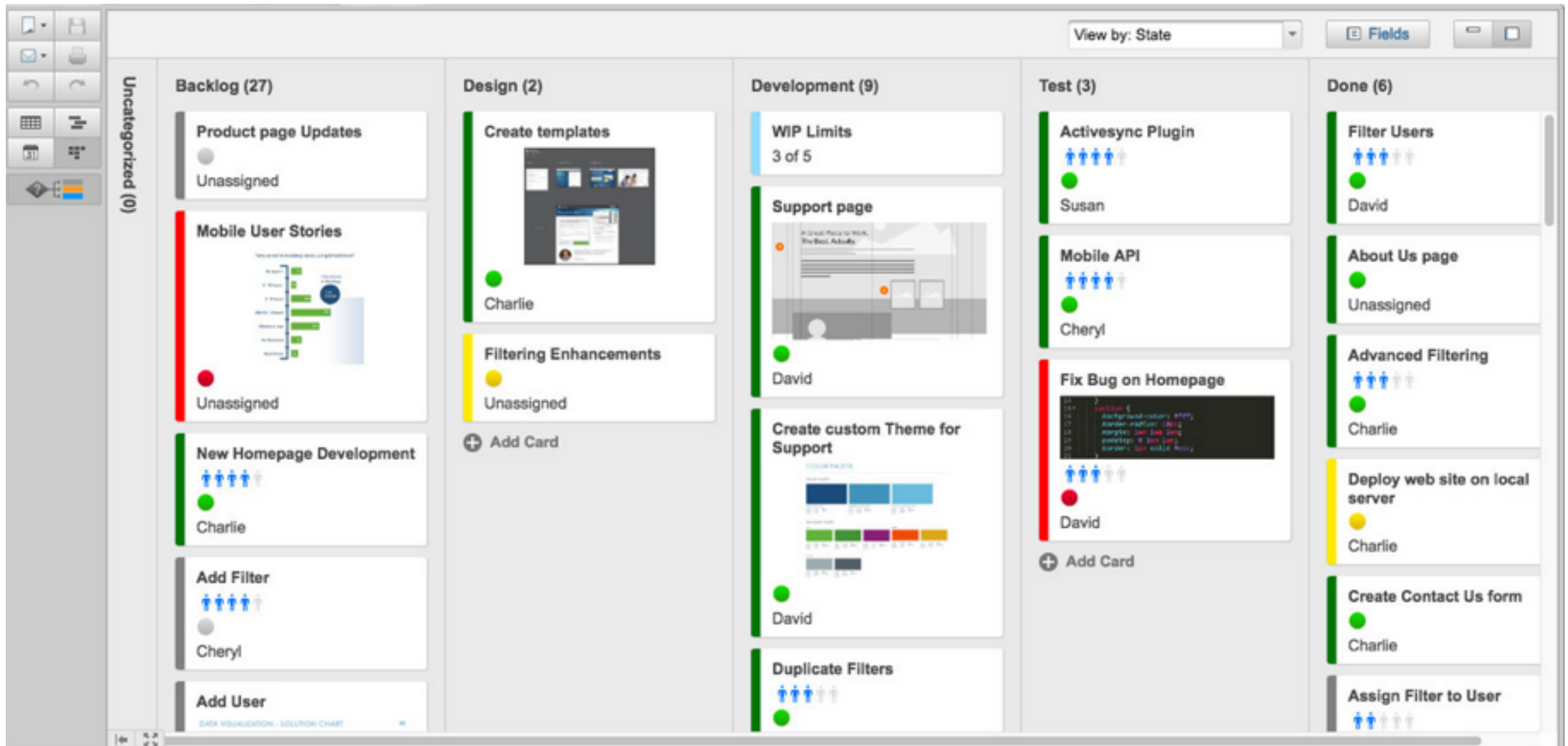


Scrum board (on a Scrum wall)



From: <http://agilebutpragmatic.blogspot.com/2012/03/visual-wall.html>

Virtual Scrum board



Trello

- Boards
- List of lists
- Lists of cards

Example: Scrum board in Trello

- <https://trello.com/b/WELsX9Hm/agile-board-example>

Version control

- Necessary!
- SVN is the system supplied by Chalmers
 - Let us know if you need an SVN server
- GIT is of course also an option

Definition of done

- When can a task be moved to to the “done” list in Trello?
- What testing needs to be done?
- Should the person who wrote the code test it?

Continuous integration (CI) for hardware design?

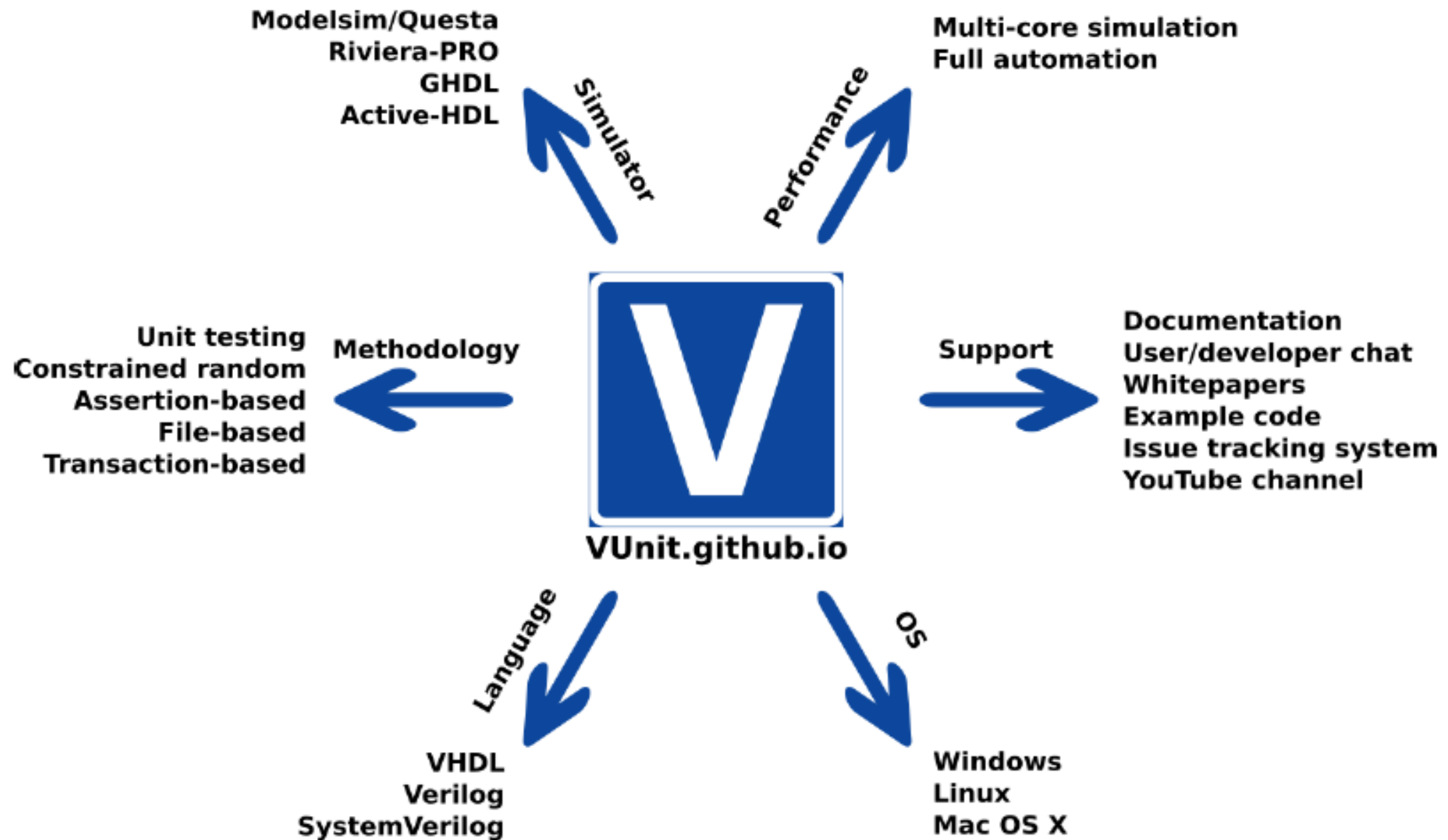


- Jenkins: “build great things at any scale”
 - Trigger builds on commits
 - Open-source framework
- Jenkins for hardware builds?
 - For those of you who are extra interested!
 - <https://www.slideshare.net/cloudbees/juc-europe-2015-jenkinsbased-continuous-integration-for-heterogeneous-hardwaresoftware-projects>

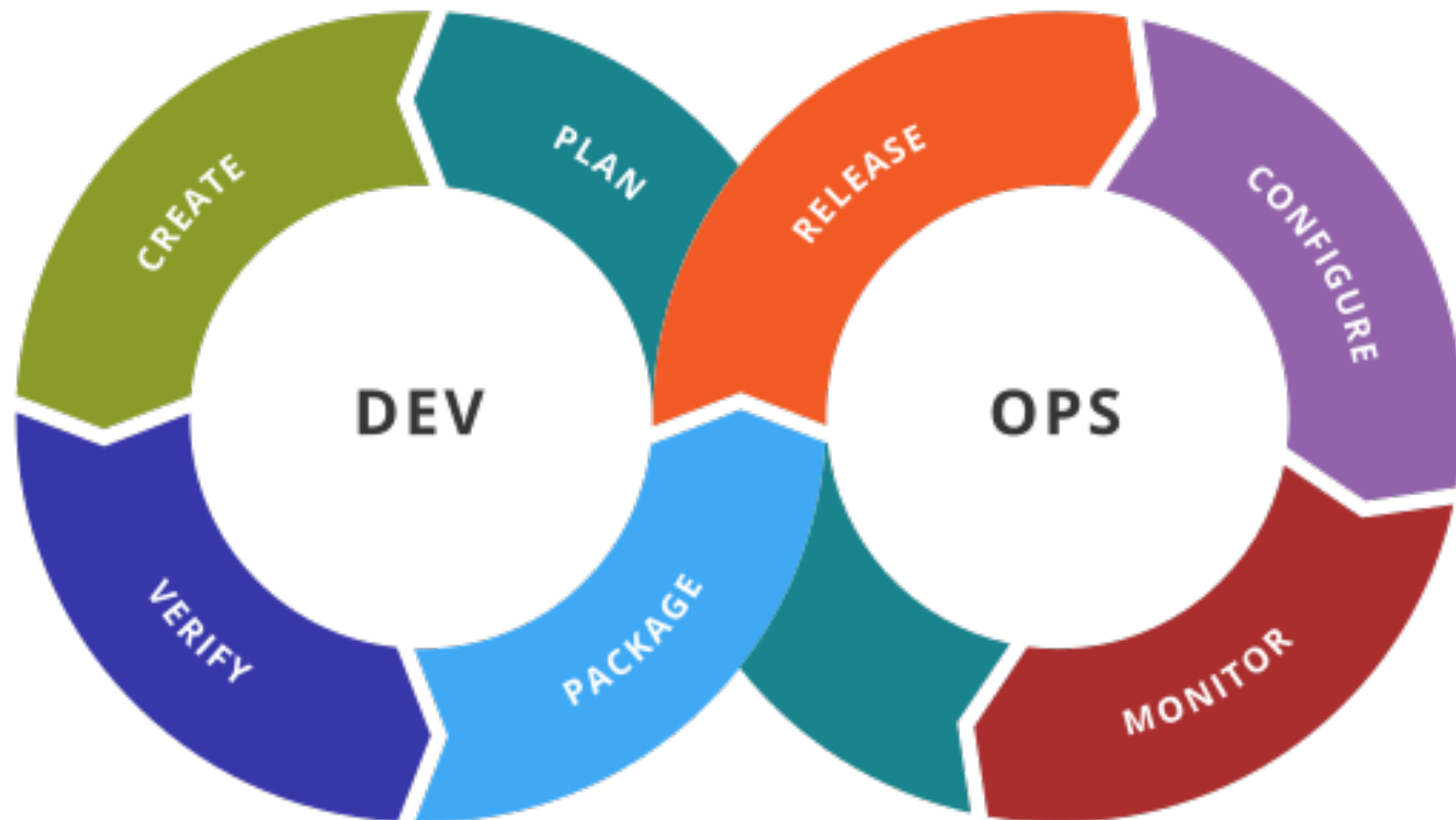
Automated unit testing for hardware

- Synective Labs - VUnit
- <https://synective.se/services/vunit-unit-test-framework-for-fpgaer/>
- Open-source tool

VUnit



DevOps



Also for hardware?

https://www.x.org/wiki/Events/XDC2015/Program/dew_devops2.pdf

Conclusion

- Scrum requires clear view of what is going on (transparency)
 - Physical or virtual board
- The working method “under scrum” can be devised in many ways.
 - Version control a must
 - Clear testing strategies
 - Preferably automated testing (but not prevalent for HDL yet).