## **Process Overview**

### Neronet

Toolbox for managing the training neural networks

CSE-C2610 Software Project Aalto University

November 11, 2015

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## **Sprints**

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S	Start	End	D	Sa	Te	Tu	Jo	Ju	li	Ma
0	19.10.	13.11.	25	50	35	35	35	35	35	35
1	13.11.	4.12.	21	30	33	33	33	33	33	33
2	4.12.	11.1.	38	30	33	33	33	33	33	33
3	11.1.	1.2.	21	15	33	33	33	33	33	33
4	1.2.	29.2.	28	15	33	33	33	33	33	33
5	29.2.	21.3.	21	15	33	33	33	33	33	33
6	21.3.	11.4.	21	20	25	25	25	25	25	25
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### Note

- ► S2 includes exams (7.-18.12.) and holidays (23.12.-1.1.)
- ► S4 includes exams (15.-19.2.)
- ▶ S6 includes exams (4.-9.4) and is reserved for mainly polishing & documenting for final review (11.-13.4.)



## **Events**

Time	Event	Participants
30.10. 16-18	Project kickoff	team + PO
13.11. 15-17	Sprint 0 demo	team + Coach
16.11. 11-13	Sprint 1 planning	team + PO
04.12. 16-18	Progress review I	team + PO + Coach

All events, locations, agendas and other details are uptodate in Google Calendar.

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A sprint planning session is organized at the start of each sprint.

- 1. Before the session
  - the PO makes sure the product backlog contains an ordered list of items with a description and a number depicting business value
  - the team plays planning poker to define effort estimates (story points) for each BI
- 2. During it the team and the PO
  - briefly define the increment's purpose, the sprint goal
  - move BIs from the product backlog to the sprint backlog
- 3. After it, the team
  - chews the BIs into smaller tasks
  - assigns effort estimates on the tasks by planning poker
  - assigns a developer and a reviewer to each task



# Sprint review

At the end of each sprint, we

- demonstrate the stories we were able to get done
- adapt the product backlog based on the results, if needed

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# Sprint retrospective

After the sprint review, we

- evaluate and rank teamwork practices
- discuss how teamwork could be improved
- remove/replace any bad practices
- plan implementation of new improvements
- give feedback to team mates

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# Daily scrums

On Wednesdays and Fridays we have a scrum in which everyone quickly explains what

- they did since last Scrum
- problems they have encountered
- they plan to do next

Work plans are adjusted depending on input.

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## Teamwork sessions

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## Most weeks, we'll

- have a Scrum and a 6h session on Wednesdays
- have a Scrum and a 5h session on Fridays
- do some individual work remotely to cover up any missed sessions

Team sessions are mainly held in Maari.



## Used practices and tools:

- Testing & quality assurance: DoD
- Communication: Email, Flowdock, Hangout/Skype, WhatsApp
- Backlog management: Agilefant
- ► Time tracking: Agilefant
- Version control: GitHub
- Collaboration: Floobits, ShareLaTeX, Google Drive
- Motivation: Six tactics

## Quality assurance

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## We guarantee quality by making

- sure team members adhere to the DoD.
- each member responsible for the quality of the code he reviewed.
- the PO is responsible for the business value of sprint goals and BIs and for making sure the team understands them.



## We use the following channels:

- Email communication that involves the PO and Coach
- Flowdock general forum for everyday discussion
- ► WhatsApp/Phone urgent team communication
- ► Skype/Hangout remote teamworking sessions

The SM communicates with the PO and Coach.

# Backlog management

Agilefant is used for all backlogs.

- Version 1 the product backlog
- ► Sprint 0-6 the sprint backlogs

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# Time tracking

We track our worktime with Agilefant. We log each work session duration to the story or task we worked on.

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## Version control

We use Git with GitHub with branches:

stable - tested and working version

sprint - increment work in progress

► story X - story work in progress

Our development process has four steps:

- 1. We assign a developer and a reviewer for each story
- 2. The developer solves the story in a new branch
- 3. Then he asks the reviewer for a merge review
- 4. The reviewer determines whether the work meets the story requirements and the DoD
  - if not, he asks the developer to continue working on it
  - if yes, he merges the story branch to the sprint branch and the developer marks the story as done

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## Collaboration

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When we work simultaneously on the same documents we use Floobits, ShareLaTeX, or Google Drive depending on the document.

Floobits is connected to a Git repo clone which facilitates when working with many files. It is particularly suitable for collaborative code level planning and code reviews.



## Motivation

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## Six tactics:

- 1. Create common goals
- 2. Focus on facts
- 3. Develop multiple alternatives
- 4. Maintain a balanced power structure
- 5. Seek consensus with qualification
- 6. Use humour

Eisenhardt K M, Kahwajy J L, and Bourgeois III L J (1997) How Management Teams Can Have a Good

Fight, Harvard Business Review, Vol. 4, pp. 77-85.

