Process Overview

Neronet

Toolbox for managing the training neural networks

CSE-C2610 Software Project Aalto University

February 29, 2016

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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.	13.1.	38	30	33	33	33	33	33	33
		1.2.								
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.)



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. 16-17	Progress review 1	team + PO + Coach
04.12. 17-18	Sprint change 1	team + PO
13.01. 19-20	Sprint change 2	team + PO
01.02. 14-16	Sprint change 3	team + PO
29.02. 13-14	Progress review 2	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 sprint team leader

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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 before the next Scrum

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. The team leader leads the sessions.



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: Team Spirit Recap

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.



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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 sprint team leader 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 and 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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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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We have three main practices to maintain motivation:

- Regular review of the six tactics
- Regular review of our team spirit recap
- Regular discussion on problems (retrospectives)



Motivation

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.

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Motivation Team spirit recap

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Mission: Why we exist

- Create useful software for Pyry (and others)
- ► We are doing this project to learn (software development, requirements engineering, architecture, project management, quality assurance, Scrum, communication with client)
- We want grade five and the quality award



Motivation

Team spirit recap

Values: What we believe in and how we will behave

- Superior quality
- Self-development
- ► Respect
- Achievement

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Vision: What we want to be

- We want to see ourselves as the best of the course teams
- ► We want to win the Quality award!
- We want to get grade 5+.
- We want to get an awesome reference (GitHub repo) that we can market on our future job applications.
- We want our tool to serve people in such a way that a community of users develops around it and continues it's development. We want to launch a successful opensource project, which we can speak proudly of even years from now.

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Team spirit recap

 Objective: Ace the course and develop a very useful and popular tool

Scope: See product vision

Advantage: We have high motivation, we meet in person every week, we have an active and responsible Scrum Master

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