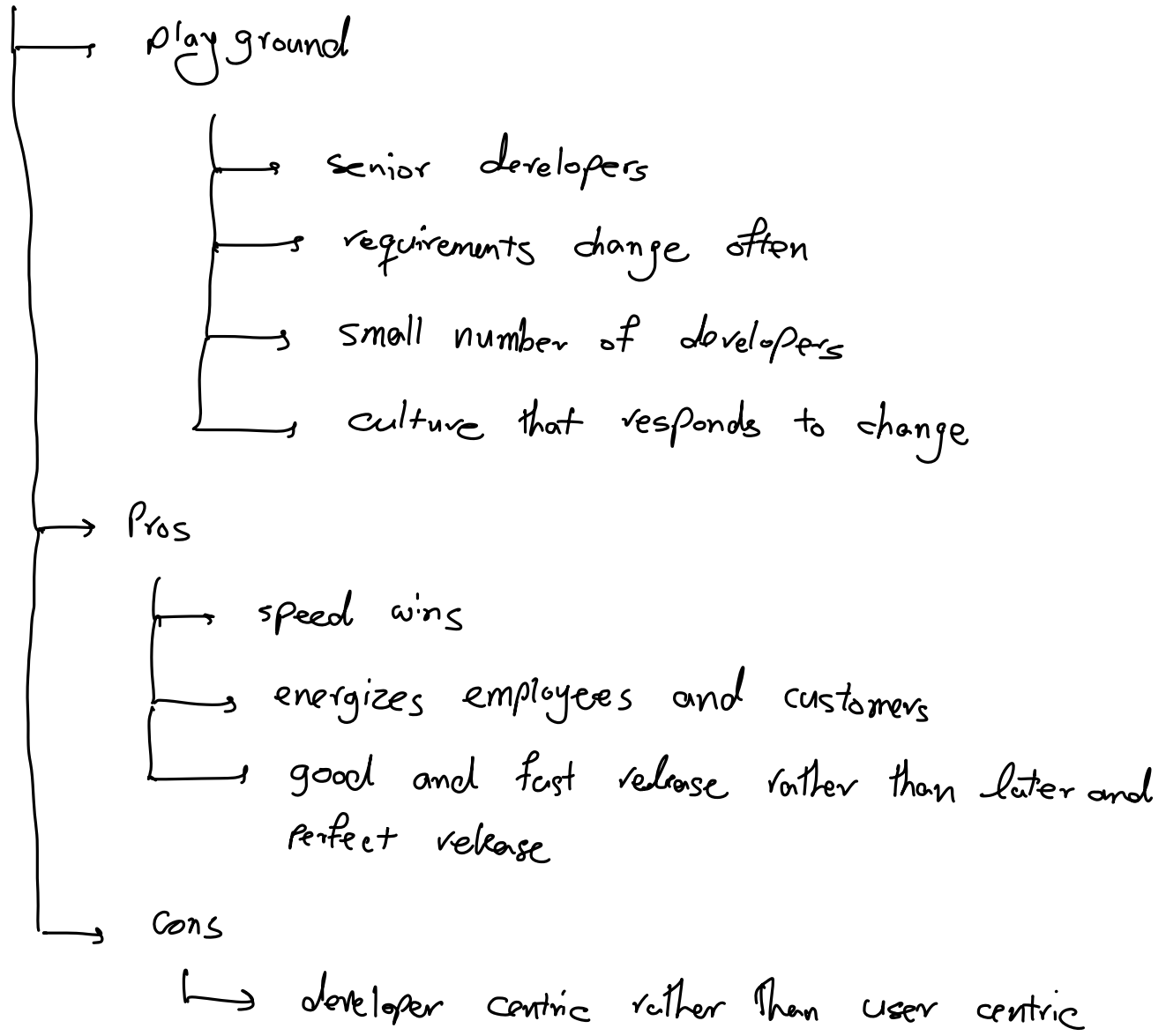


Scrum - An introductory Course to Agile

⚠ Being Agile



⚠ Scrum is an agile framework for completing complex projects, Scrum originally was formalized for software development process

⚠ Scrum focuses on empirical process control

- ↳ knowledge comes from experience
- ↳ decisions are made based on what is known

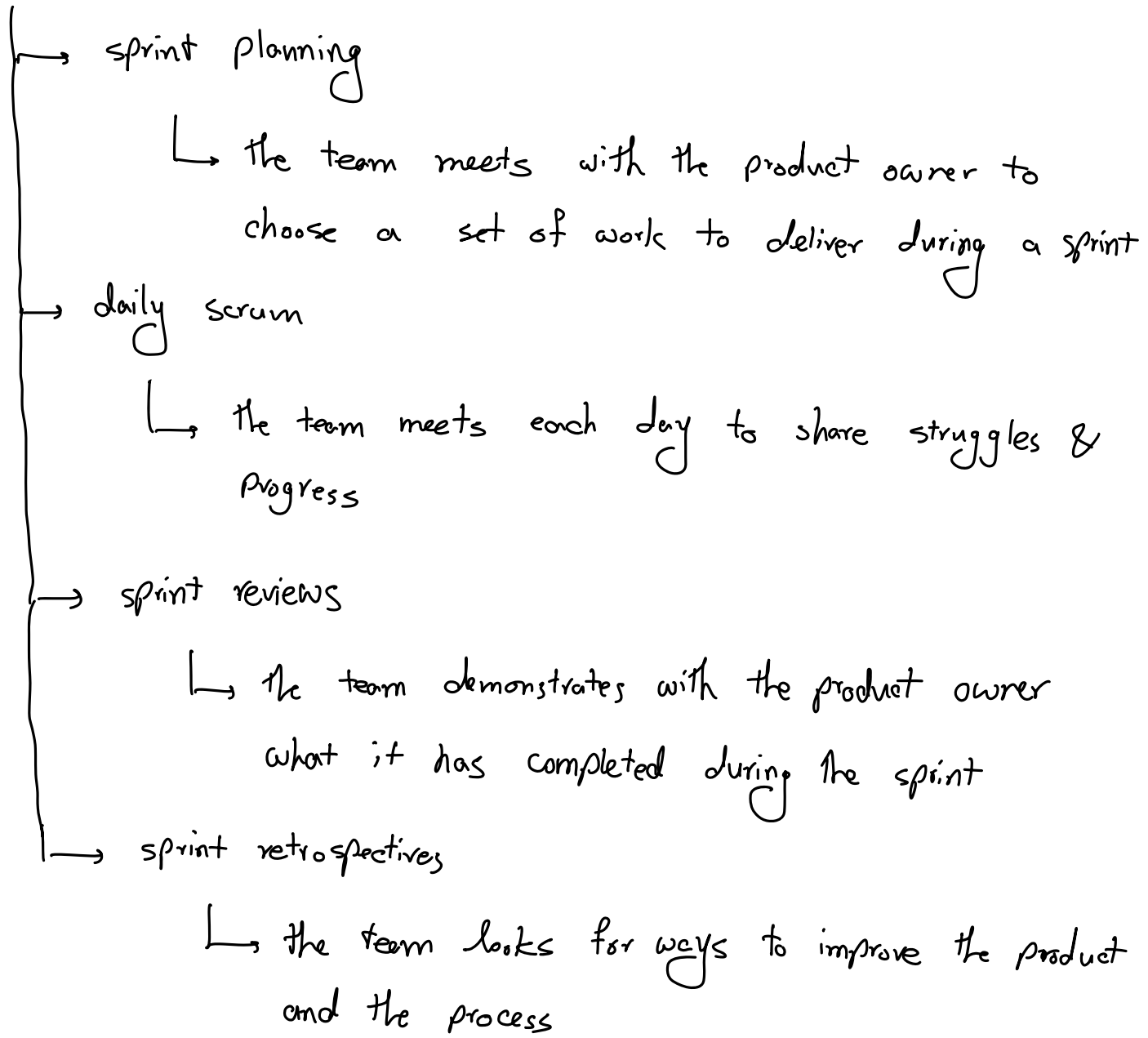
⚠ Implementation in Scrum is based on Three principles

- ↳ transparency
- ↳ inspection
- ↳ adaption

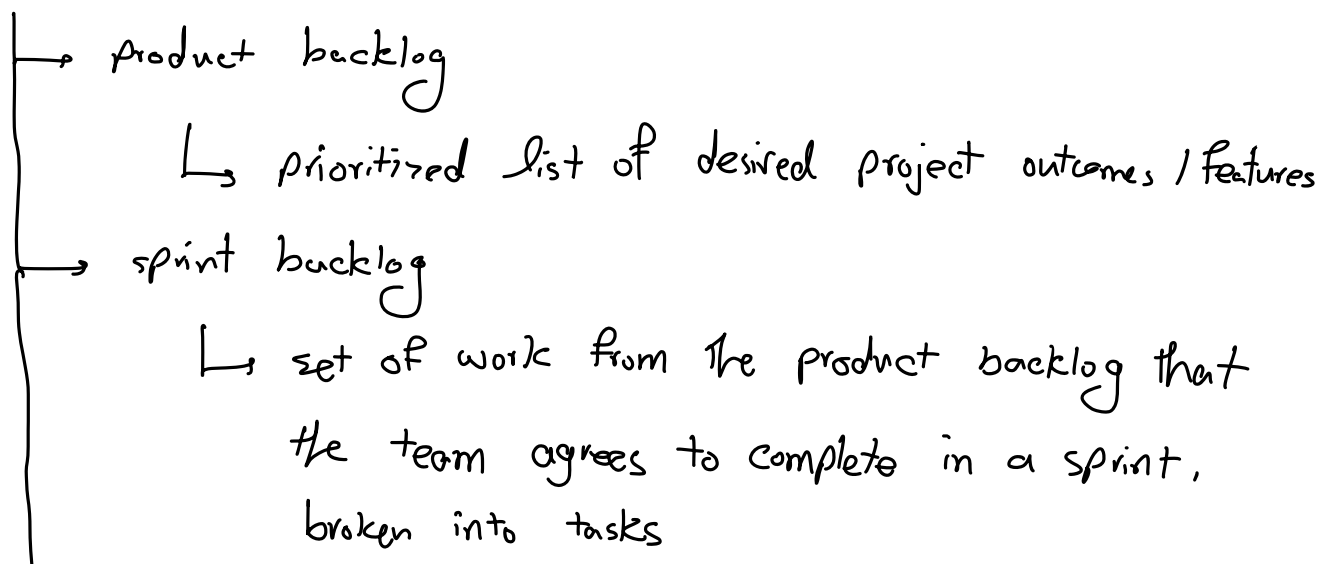
⚠ Scrum main roles

- ↳ Scrum Master
 - ↳ coach, shelters the team
 - ↳ do not assign tasks, do not provide day-to-day direction
- ↳ Product owner
 - ↳ responsible for the vision of product
 - ↳ responsible for business value of the project
- ↳ team member
 - ↳ self-organizing
 - ↳ plays for the team

Scrum Ceremonies



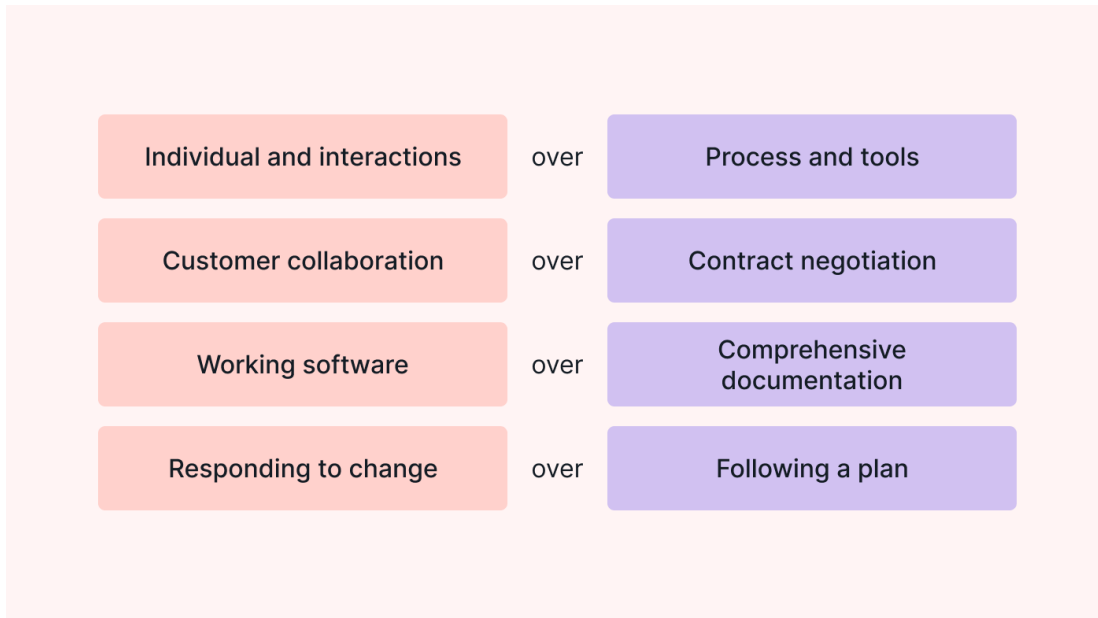
⚠ Scrum artifacts



↳ burn down chart

↳ at-a-glance look at the work remaining

⚠ Agile Manifesto



⚠ Core Scrum foundations

- ① Empiricism ② self-organization
- ③ prioritization ④ rhythm ⑤ collaboration

⚠ Core Scrum Values

- ① Communication ② Simplicity
- ③ Courage ④ Feedback ⑤ Respect

⚠ Product backlog attributes

- ① ID ② story ③ Prioritization ④ Estimation

⚠ Sprint backlog

- a set of product backlog items
- follows sprint goal
- defines work that transform PB items into "Done" increment
- individuals sign up for work of their own choosing
- work is never assigned
- is changed by DEV team throughout sprint
- is highly visible
- PO can not make changes

⚠ Scrum roles introduction

- The product owner manages the product (and ROI)
- The scrum master manages the process
- the team manages itself
- Scrum teams are self-organizing & cross-functional

⚠ Product owner is a person not a committee

⚠ Scrum Master shouldn't be the product owner, too

⚠ Development team is typically about 5-9

⚠ Everyone answers 3 questions

- ↳ What did you do yesterday?
- ↳ What will you do today?
- ↳ Is anything in your way?

⚠ Two-week sprints are good length to start with

⚠ Scrum Master checklist

- ↳ beginning of sprint
 - ↳ print sprint info page, put it on the wall
 - ↳ e-mail everyone with sprint goal & link to info page
- ↳ every day
 - ↳ make sure the daily scrum meeting is in time
 - ↳ check stories added/removed from the sprint backlog
 - ↳ notify product owner with changes
 - ↳ make sure impediments are solved or reported to PO
- ↳ end of sprint
 - ↳ do an open sprint demo (notify before)
 - ↳ do a sprint retrospective with the whole team
 - ↳ update the sprint statistics document

⚠ How to get a good user story

- As a <User> , I can <do> , so that <value>
- may have high level tests attached
- key attributes (INVEST)
 - ↳ ① independent ② negotiable
 - ③ valuable ④ estimable
 - ⑤ small ⑥ testable

⚠ Increment

- ↳ sum of PB items that are completed & usable
 - ↳ meets the scrum team's definition of done
 - ↳ it is a measure for sprint planning

⚠ Definition of Done

- ↳ sum of criteria that mark work completed
 - ↳ it is a shared understanding to ensure transparency
 - ↳ varies between different teams
 - ↳ marks potentially releasable functionality
 - ↳ can change to include stringent criteria for better quality

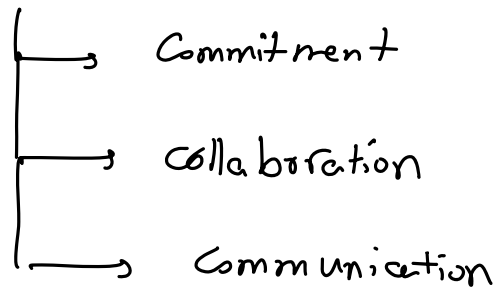
⚠ 4 levels of Done

- at the level of task
 - ↳ convince your team mate
- at the level of a story
 - ↳ commitment to the product owner
- at the level of a sprint
 - ↳ sprint goals and commitment for the set of stories
- at the level of a release
 - ↳ PO decision about what it takes to release

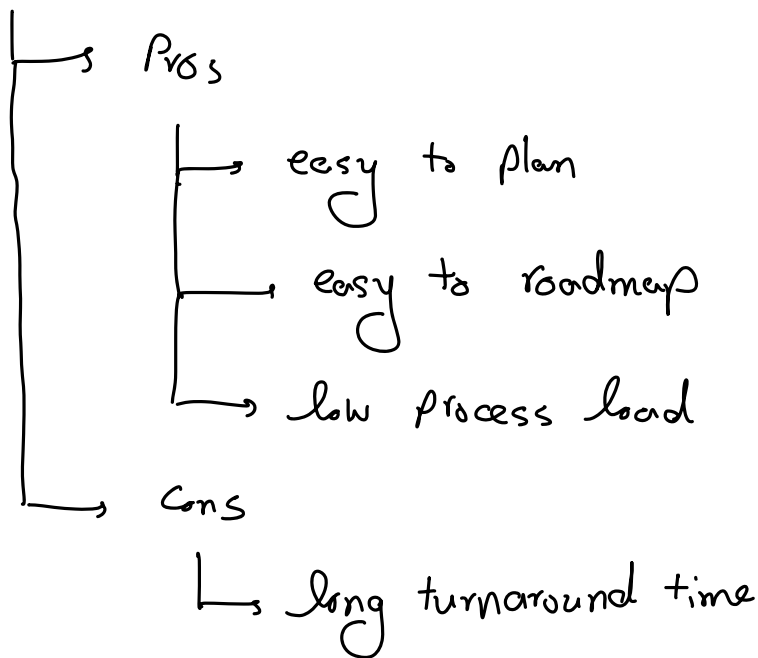
⚠ How to make retrospective relevant

- make retrospective action items visible
- choose a focus
- track outcomes
- record incremental progress

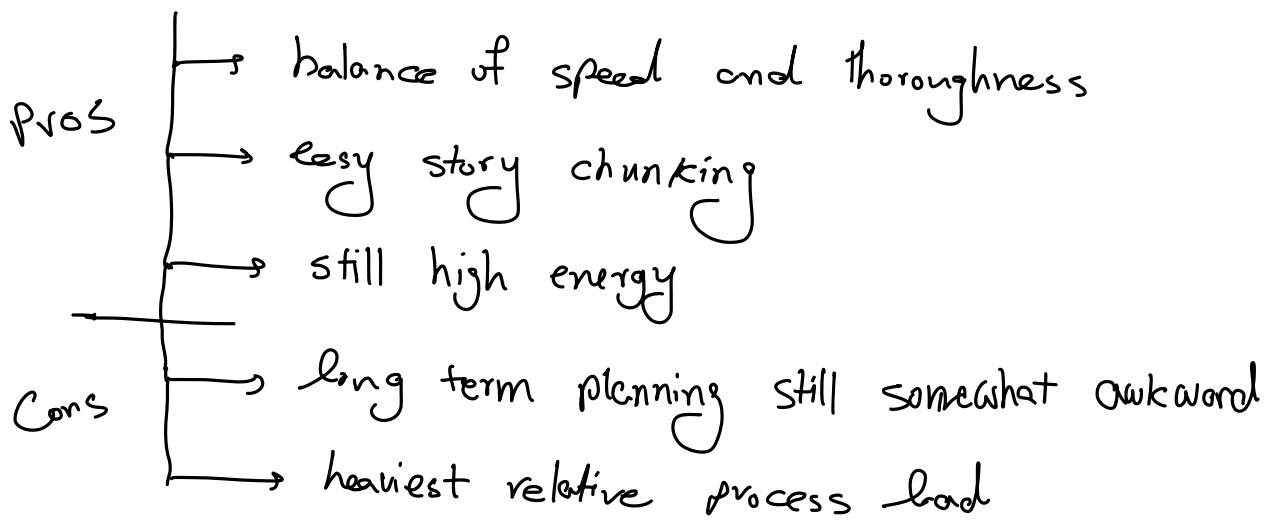
⚠ How Agile and Scrum contribute to team morale



⚠ 4 weeks sprint



⚠ 2 weeks sprint



⚠ Sprint & product backlog tips

- keep your sprint backlog & product backlog separate, organized & prioritized
- reprioritize your product backlog each time you add to it
- do not add more to your sprint backlog than can be reasonably completed during your sprint

⚠ Sprint planning meeting tips

- make sure you come up with a clear goal for your sprint during the planning session
- come up with a list of highly committed team members for the sprint
- only begin a sprint planning session once your product backlog has enough organization and detail
- once you select the sprint backlog activities, realize that you must commit to them completely
- the sprint planning meeting should take no longer and no shorter than 4 hours