

# PyHEADTAIL development process

Proposal for Organising Our Work Flow

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HEADTAIL development WG meeting

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# Motivation

- improve organisation of our work flow
  - **collect vague ideas:**  
*don't lose ideas after discussions...*
  - **overview of ongoing work:**  
*who works on what? avoid duplicate work*
  - **keep track of priorities:**  
*what is urgent, what can be done later?*
- we investigated some possible tools
- we present a preliminary structure here
- ⇒ stimulate discussion on optimising  
PyHEADTAIL development

# Work Flow (→ not necessarily linear)

A. **creative brainstorming**

B. **prioritise**

C. **process tracking**

# Work Flow (→ not necessarily linear)

## A. **creative brainstorming**

- gather ideas for features, improvements, problems
- document the reason
- ⇒ use central online mind map?

## B. **prioritise**

## C. **process tracking**

# Work Flow (→ not necessarily linear)

## A. creative brainstorming

- gather ideas for features, improvements, problems
- document the reason
- ⇒ use central online mind map?

## B. prioritise

- identify core features to implement
- extract ideas (from mind map?)
- ⇒ phrase problem, **define issue**

## C. process tracking

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- gather ideas for features, improvements, problems
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## B. prioritise

- identify core features to implement
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- ⇒ phrase problem, **define issue**

## C. process tracking

- identify who works on what?
- keep track of changes
- ⇒ follow **established procedure**

# A. Creative Brainstorming

- gather ideas for features, improvements, problems
- document the reason
- ⇒ use central online mind map?

- everyone adds ideas
- rapidly update mind map after discussions

## ⇒ **avoid losing ideas**

- suggest *mindmeister.com* (open source alternative: *XMind.net*)
  - web interface, supports many platforms

## B. Prioritise

- identify core features to implement
- extract ideas (from mind map?)
- ⇒ phrase problem, **define issue**

- issue: description, priority, duration estimate

⇒ **see others working on the same issue**

- suggest: *trello.com*
  - board featuring parallel lists
  - lists contain cards
  - labels may denote priority (desirable/low/high/urgent)
  - cards  $\xleftrightarrow{1:1}$  issues  $\xleftrightarrow{1:1}$  *github.com* branches (feature based)

→ “shared repository model”, link



# C. Process Tracking I

- identify who works on what?
- keep track of changes
- ⇒ follow **established procedure**

- *github* commits  $\overset{\text{zanker?}}{\longleftrightarrow}$  *trello* card comments
- organise *trello* lists as **progress stages** (?)
  1. To Do (prioritised)
  2. Implementation in Progress
  3. Testing
  4. Successfully Tested & Released
- history documented (*trello*: “activities”, *github*: commits)

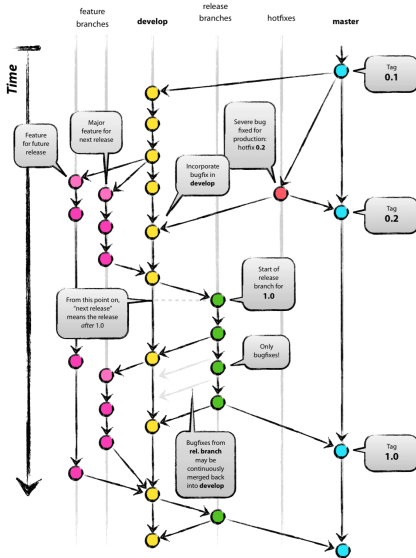
## C. Process Tracking II

- version control (*github*: tags, releases)
  - 1.1.x for bug fixes (third number)
  - 1.x for new features (second number)
  - perhaps leave the first one for the moment ;-)

## C. Process Tracking II

- version control (*github*: tags, releases)
  - 1.1.x for bug fixes (third number)
  - 1.x for new features (second number)
  - perhaps leave the first one for the moment ;-)
- *trello* vs. *github* bug tracking
  - *trello*: more overview & flexibility?  
(soon-to-be established procedure incl. testing)
  - break down feature development into steps:  
*trello* card checklists
  - *github* already integrated management

# Last but not least: git branching



- feature based branches
- develop branch
- master branch

→ merging only with

```
$ git merge ... --no-ff
```

⇒ clean master branch

→ source link

# Summary

- our non-linear and iterative work flow supported with
  - A. Creative Brainstorming (*mindmeister* map?)
  - B. Prioritising (*trello* boards?)
  - C. Process Tracking (*trello?* & *github*)

in order to

- save potent but vague **ideas**,
- have **overview of team work** readily at hand, and
- keep track of **priorities** and **actions** taken.