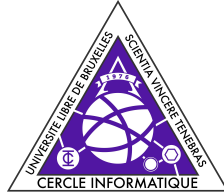




Gestion de versions avec Git

Pinebook - octobre 2020



Objectifs

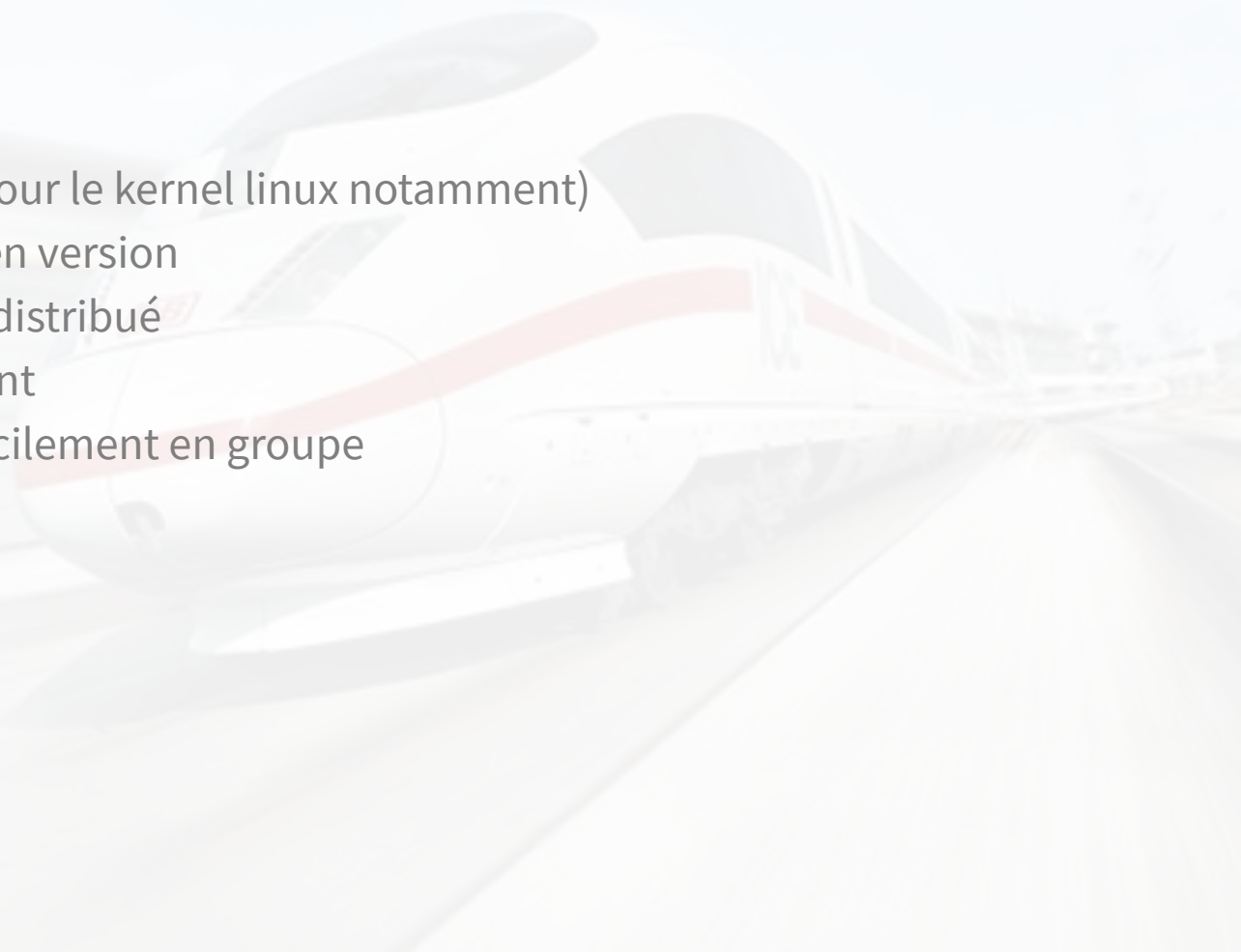
- Découvrir, et prendre Git en main
- Comprendre et appliquer le “Git Workflow”
- Quelques commandes avancées de Git

- Quelques commandes shell Linux au passage !



Pourquoi Git ?

- Très répandu (utilisé pour le kernel linux notamment)
- Structurer son travail en version
- Git est complètement distribué
- Très complet et puissant
- Permet de travailler facilement en groupe



Hello Git !



Un gestionnaire de version

animals.txt



Version : **ae31b**

Un gestionnaire de version

animals.txt

cat

animals.txt

cat

dog

beers.txt

zinnebir

lupulus

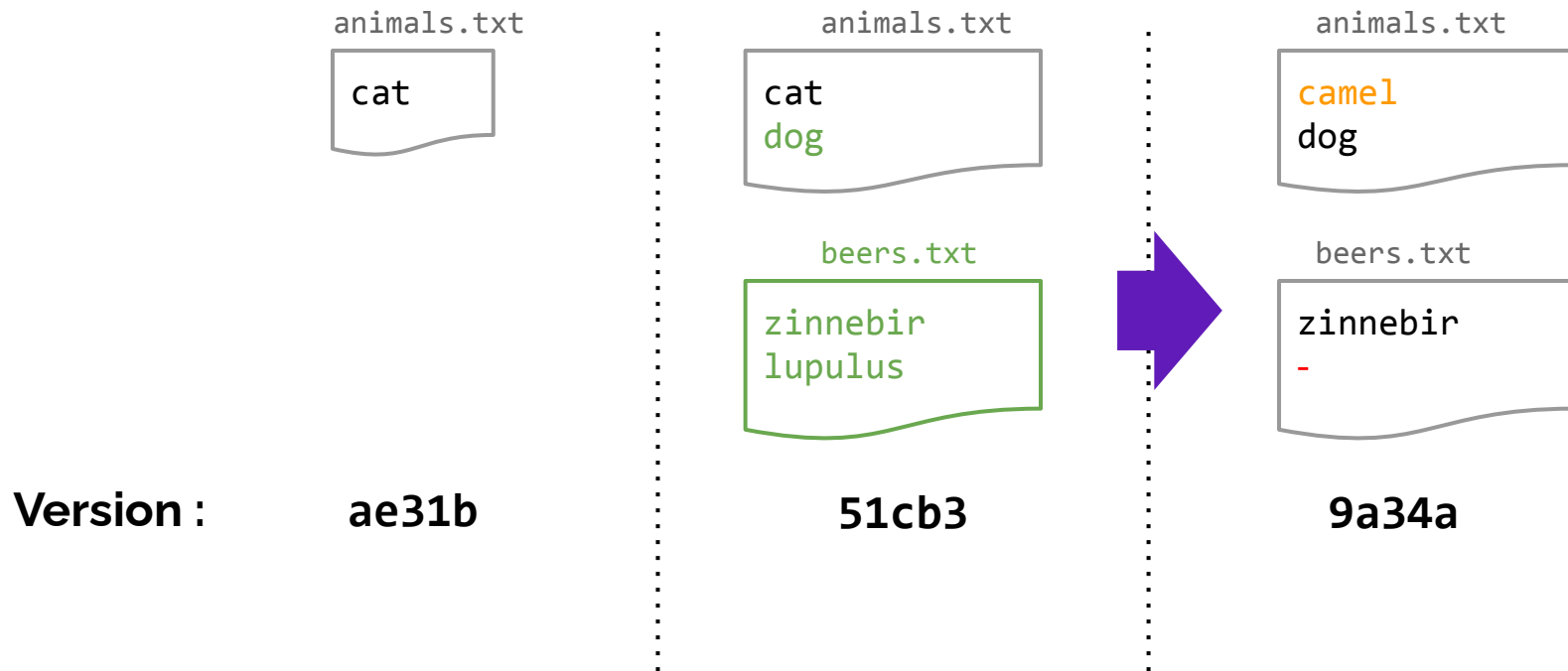


Version :

ae31b

51cb3

Un gestionnaire de version



Un gestionnaire de version

animals.txt

cat

animals.txt

cat
dog

beers.txt

zinnibir
lupulus

animals.txt

camel
dog

beers.txt

zinnibir
-

Version :

ae31b

51cb3

9a34a

Message :



“Ajout
chat”

Serge



“Chien,
bières”

Carena



“chameau et
j’aime pas la
lupulus”

Serge

Un gestionnaire de version



1

Historique

- Comment le projet a changé ?



2

Personnes

- Travailler à plusieurs sur le même projet



3

Modifications

- Quoi ?
- Quand ?
- Pourquoi ?

Composant de base: le commit

9a34a

| | |
|---------|------------------------|
| Parent | e321a |
| Auteur | Donald |
| Message | Code a tremendous wall |
| Date | 2015-06-16 |
| Tree | |

ab89e

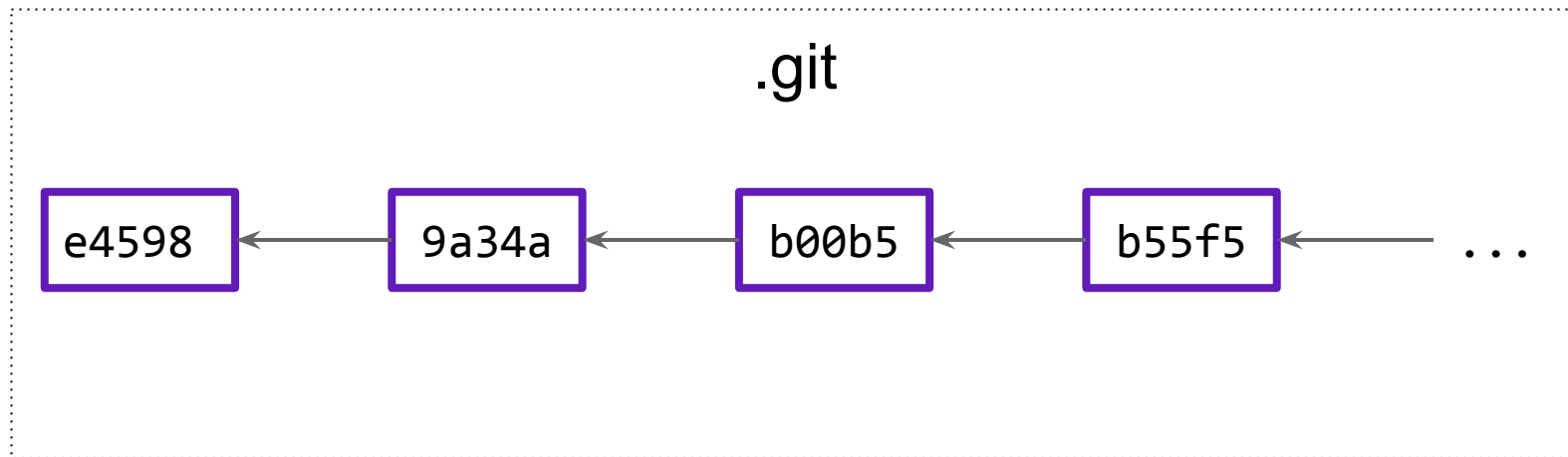
| | |
|---------|----------------------------|
| Parent | 9a34a |
| Auteur | Donald |
| Message | Make code great again |
| Date | 2017-01-20 |
| Tree | [structure interne de git] |



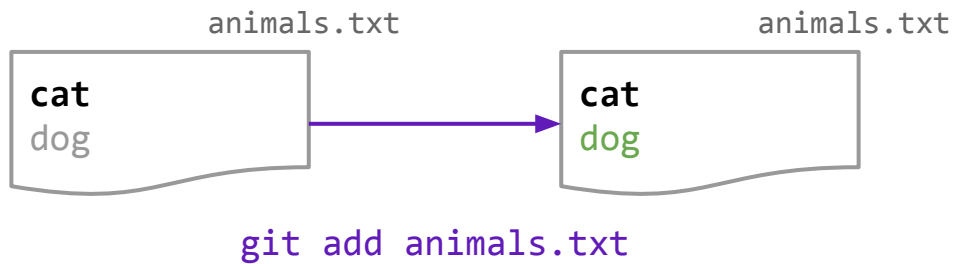
**Un commit est un
ensemble de
modifications**

Depuis le commit
précédent

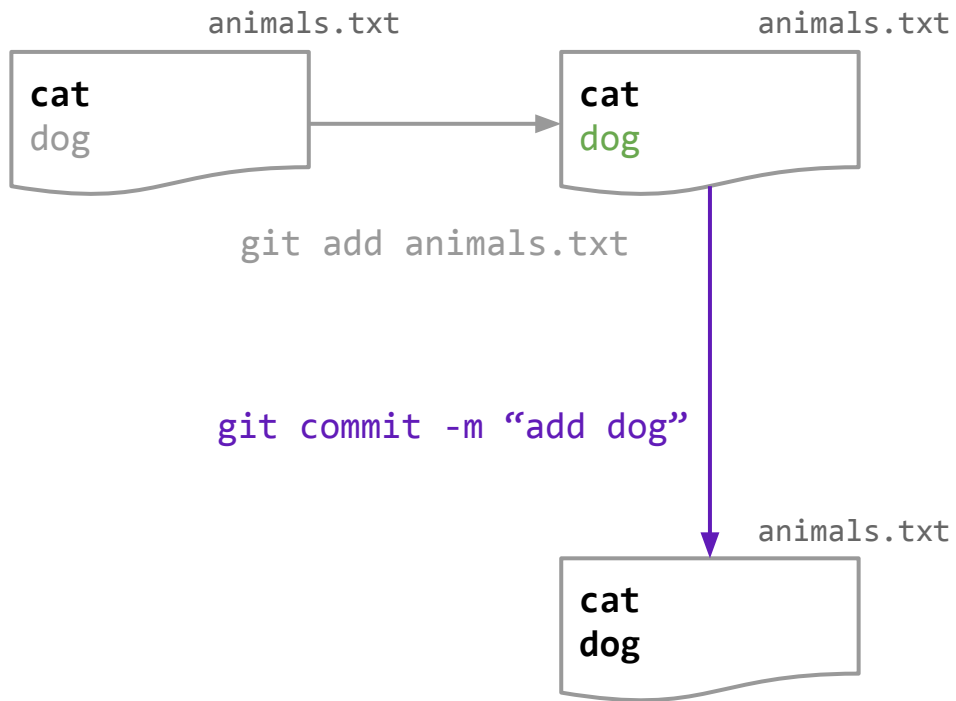
Repository



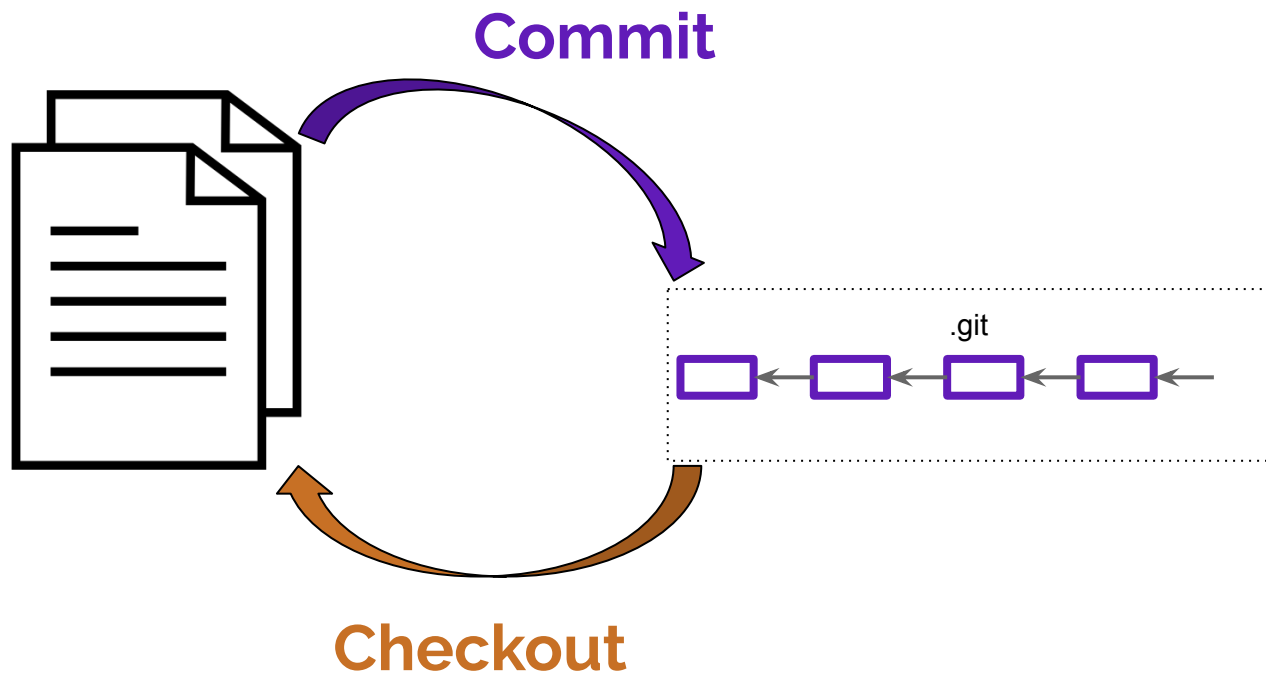
Staging area



Staging area



Checkout

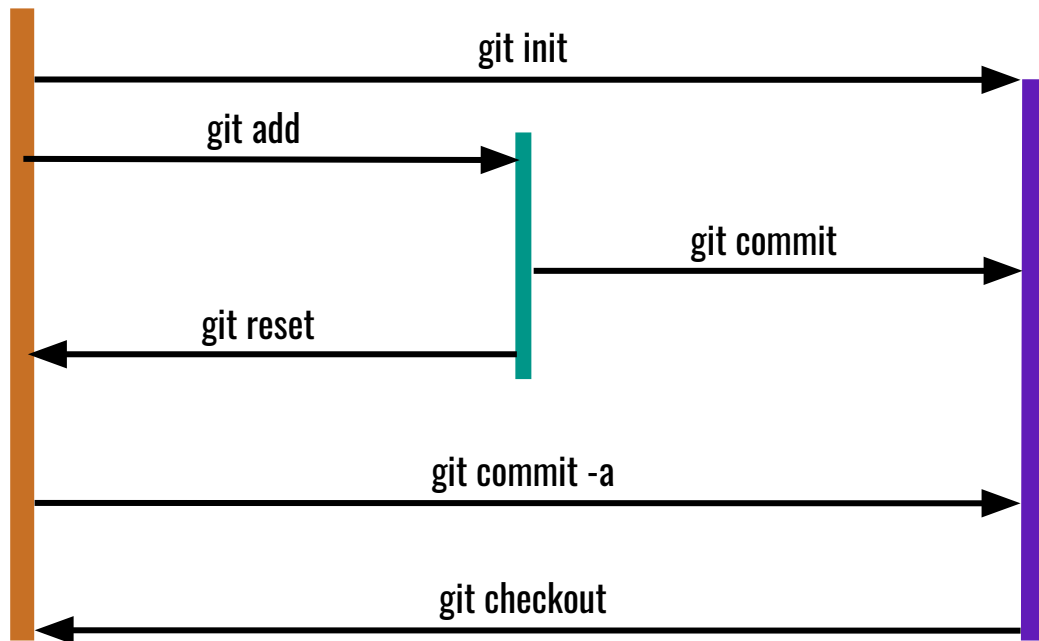


Déroulement d'un commit

Working directory
(Fichiers dans dossier courant)

Staging area
(Modifications en préparation)

Repository
(Modifications enregistrées)



Perdu?

- `git status`: Afficher l'état actuel des fichiers et du repository
- `git diff`: Afficher les modifications courantes
- `git log`: Afficher l'historique

Commandes courantes

- `git add -p`: Ajouter interactivement les modifications par morceau
- `git add fichier.txt`: Ajouter toutes les modifications de fichier.txt
- `git add *.txt`: Ajouter toutes les modifications des fichiers .txt

- `git commit -a`: Enregistrer toutes les modifications d'un coup
- `EDITOR="gedit" git commit`: Utiliser GEdit pour écrire le message de commit
- `git commit -m "message"`: Passer le message de commit directement

- `git config [--global] user.name "nom"`: Indiquer son nom
- `git config [--global] user.email "em@il"`: Indiquer son email

Show time !

- Créer un repo dans un projet
- Ajouter un commit
- Consulter l'historique
- Ajouter d'autres commits
- Revenir à un état précédent

```
# Création d'un projet
mkdir git_workshop
cd git_workshop
echo "Toutouyoutou" > chanson.txt
```

```
# Création d'un repo
git init
```

```
# Commit
git add chanson.txt
git commit -m "<message>"
```

```
# Voir l'historique
git log
```

```
git checkout <commit hash>
```

Branches

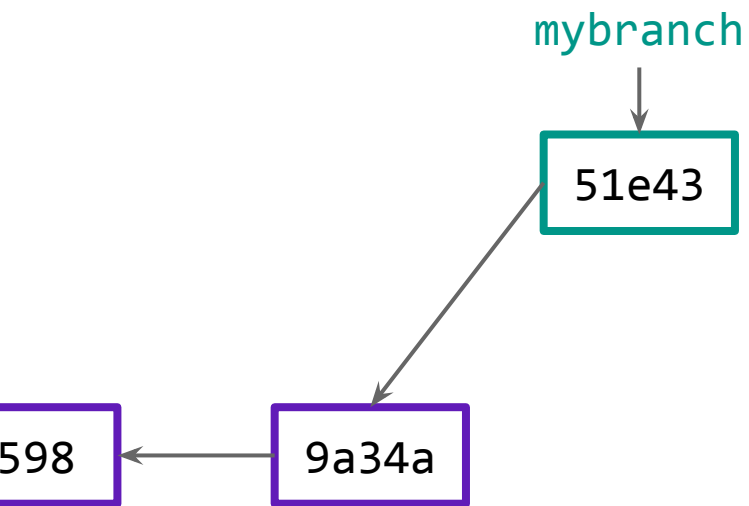


Branches



Branches

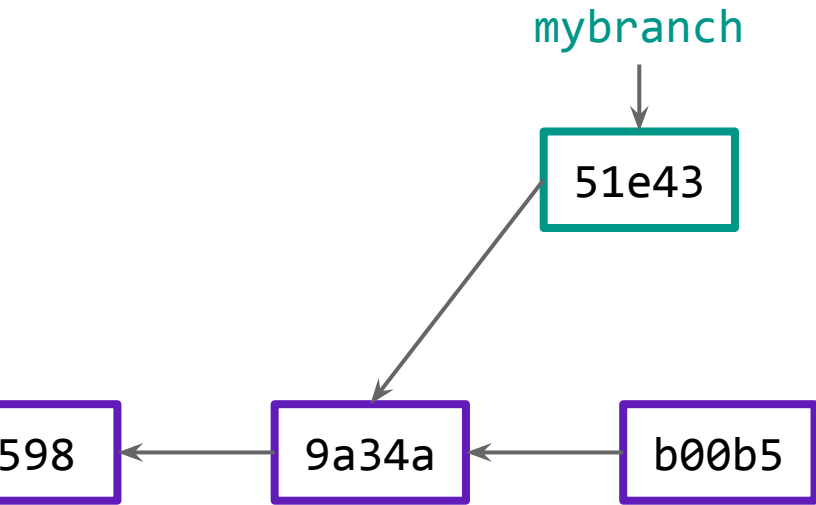
`git branch <nom>`



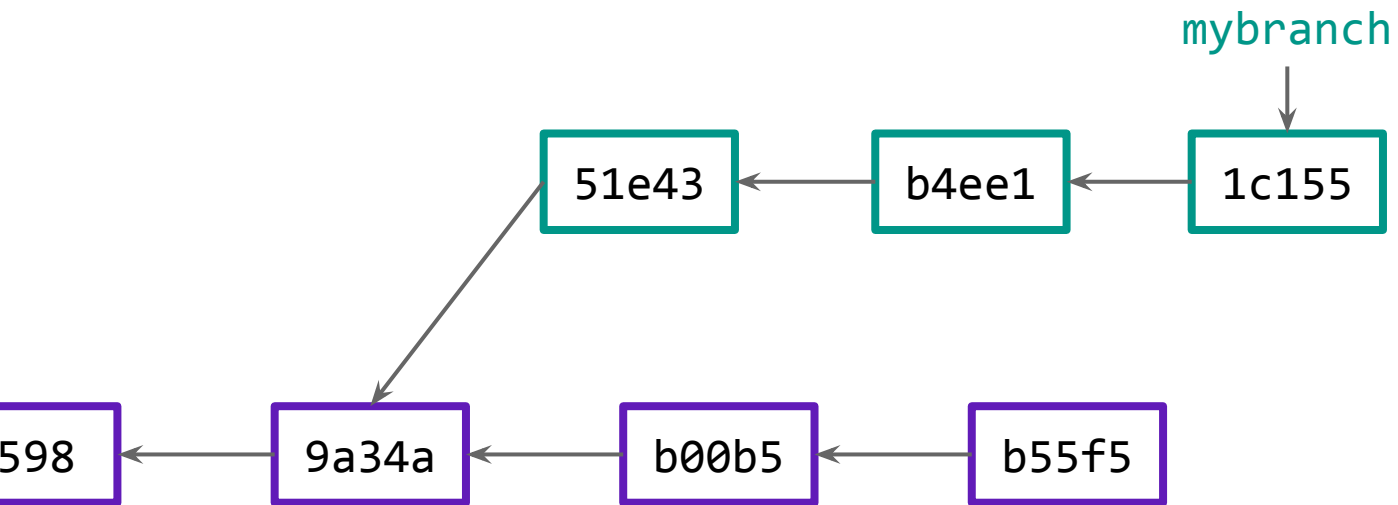
**Une branche est
un nom qui pointe
sur un commit**

Qui avance lorsqu'on
commit sur la branche

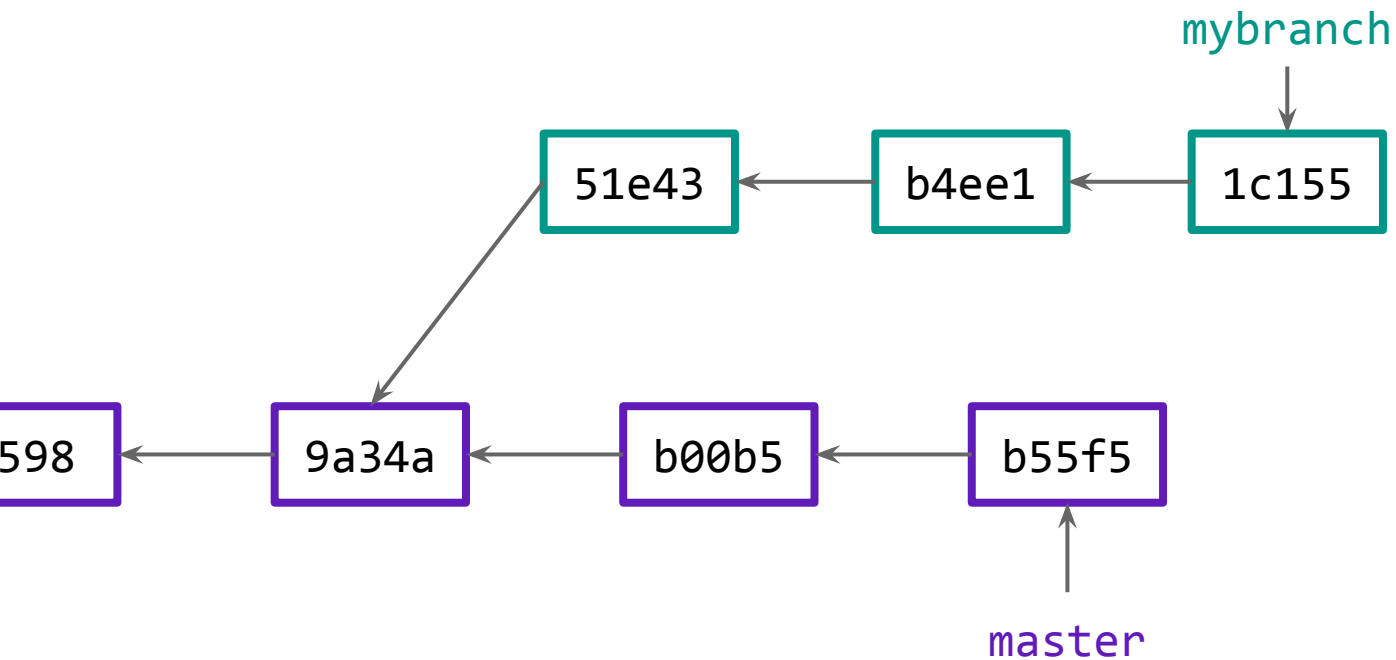
Branches



Branches

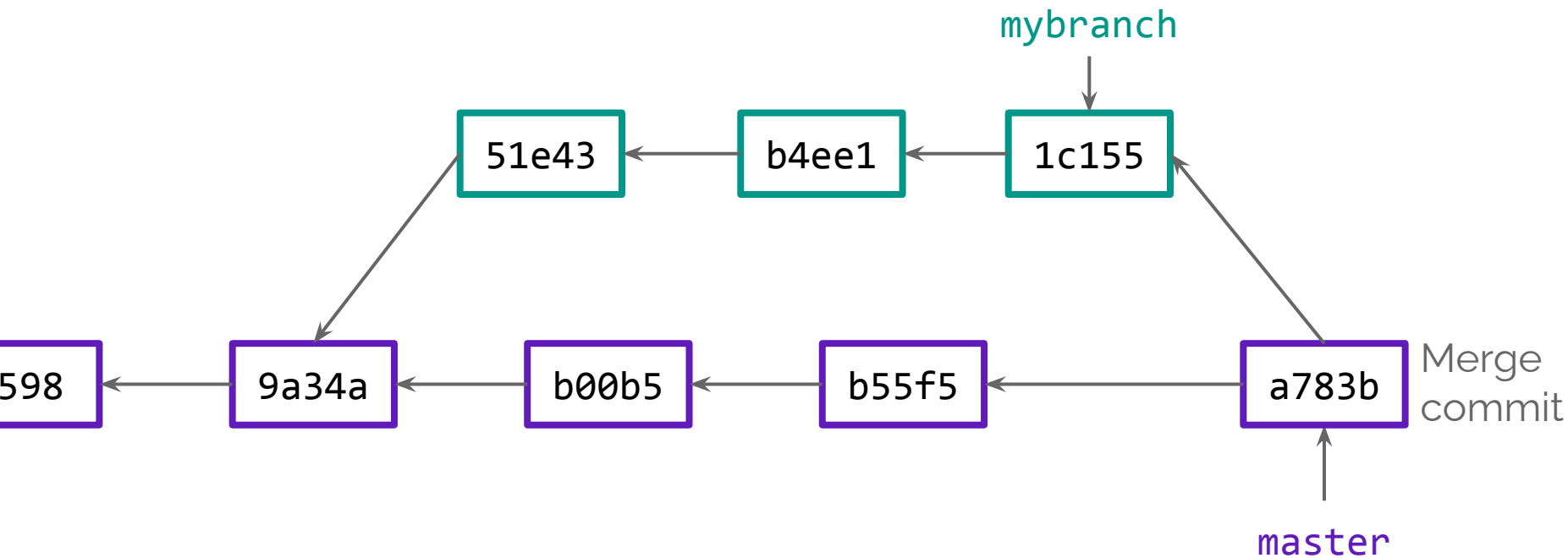


Branches



Merge

`git merge <nom>`

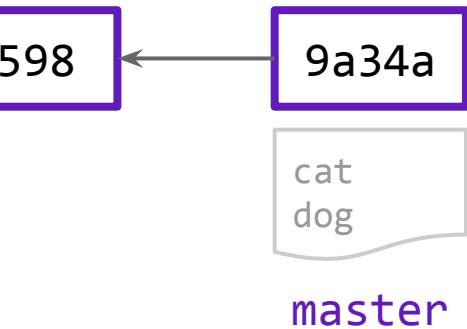


Un merge est un commit

Qui a plusieurs
parents

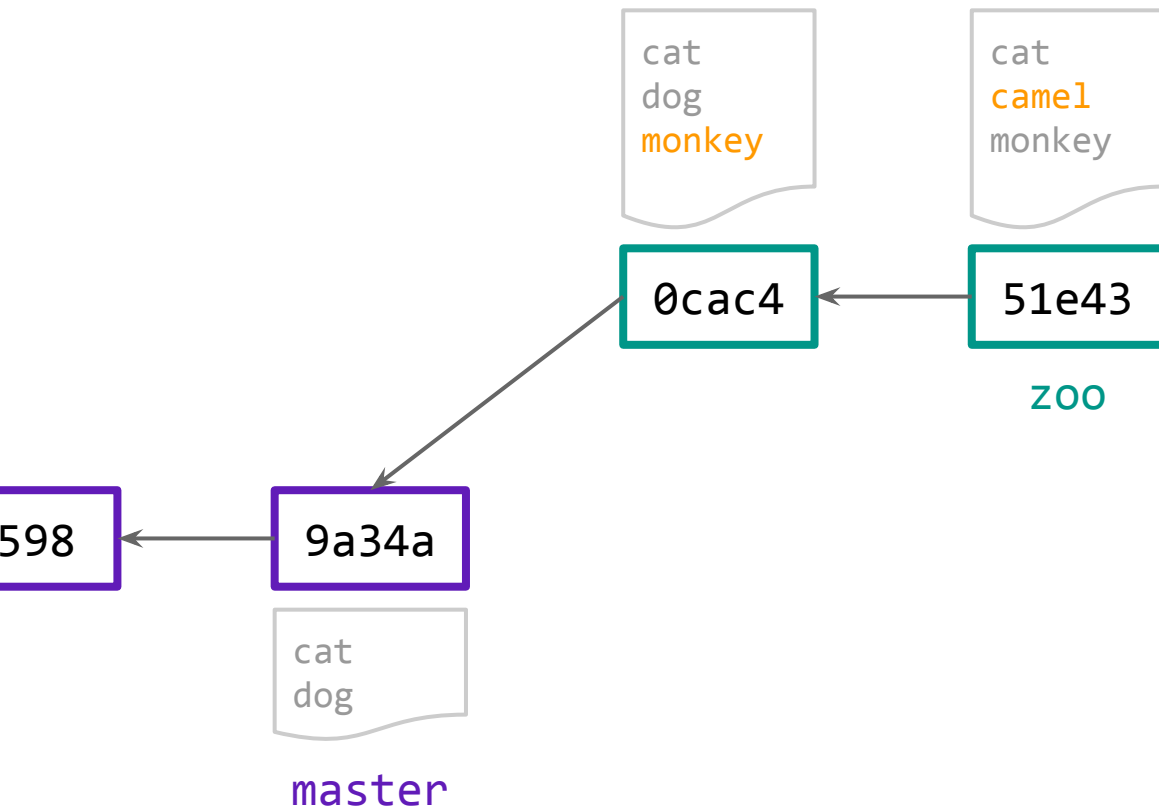
Différents types de merge

Fast-forward



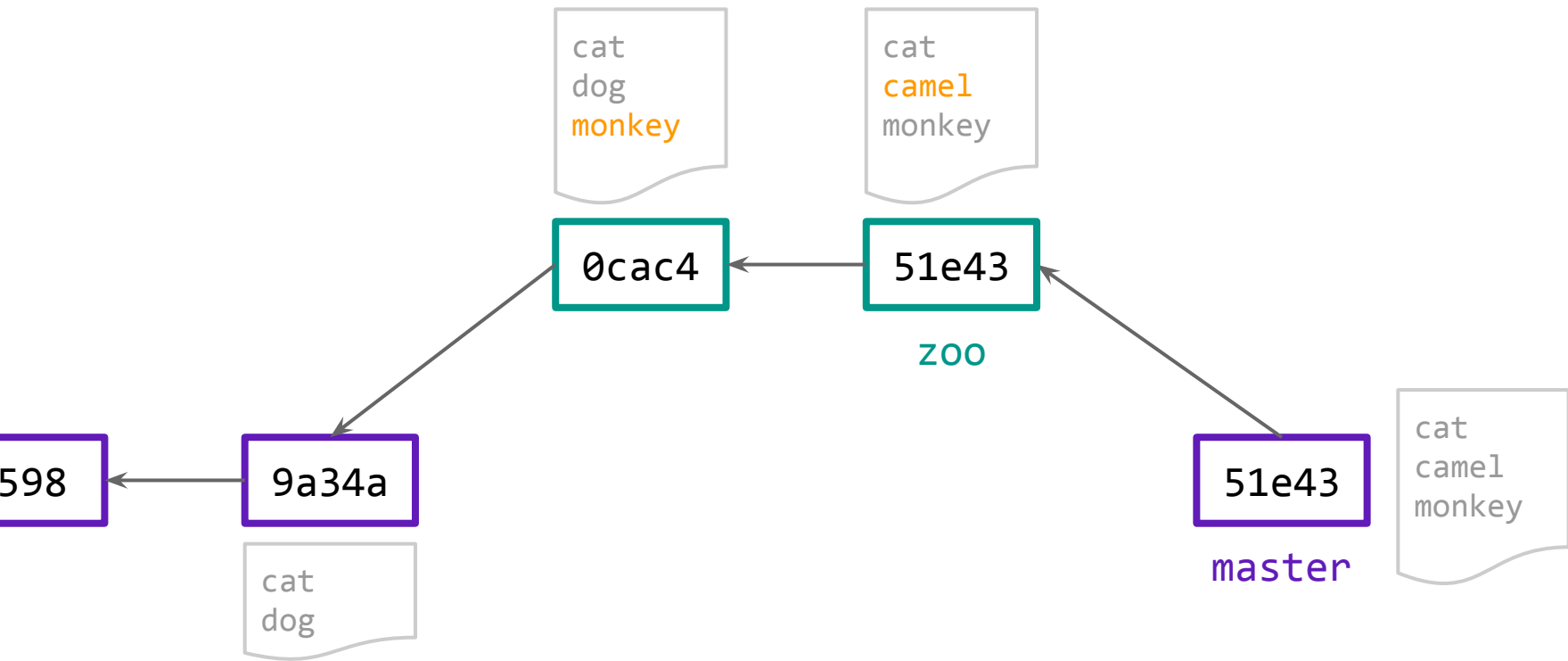
Différents types de merge

Fast-forward



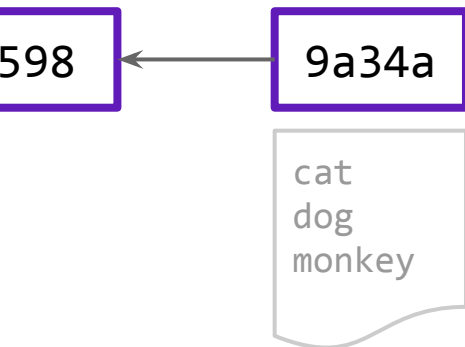
Différents types de merge

Fast-forward



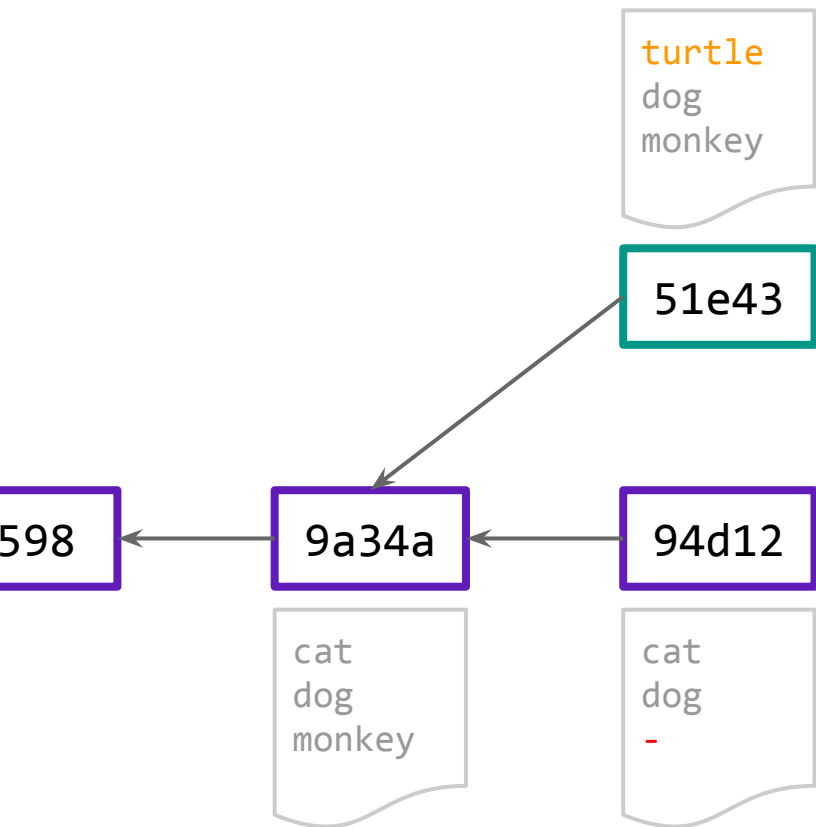
Différents types de merge

Sans conflit



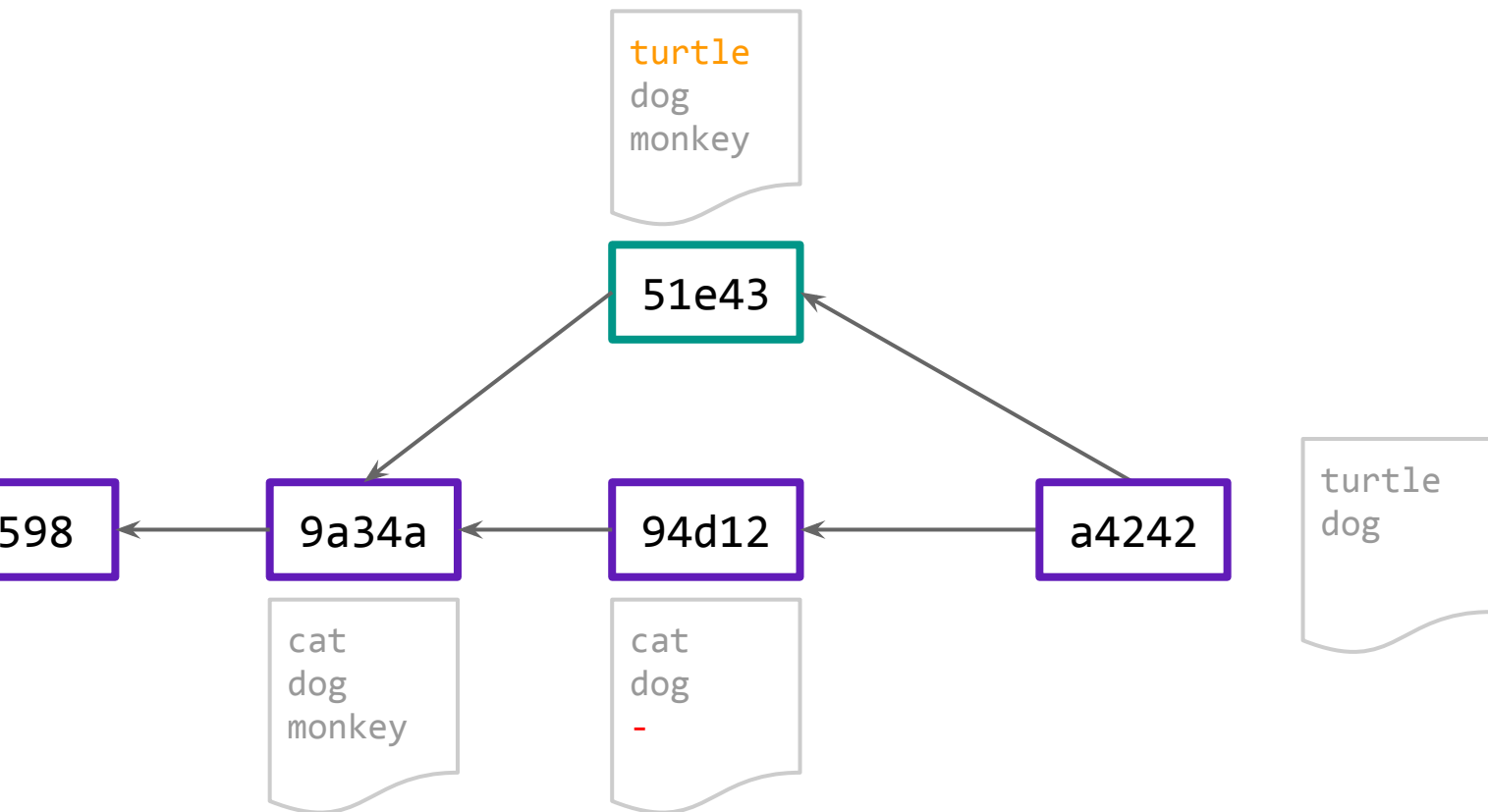
Différents types de merge

Sans conflit



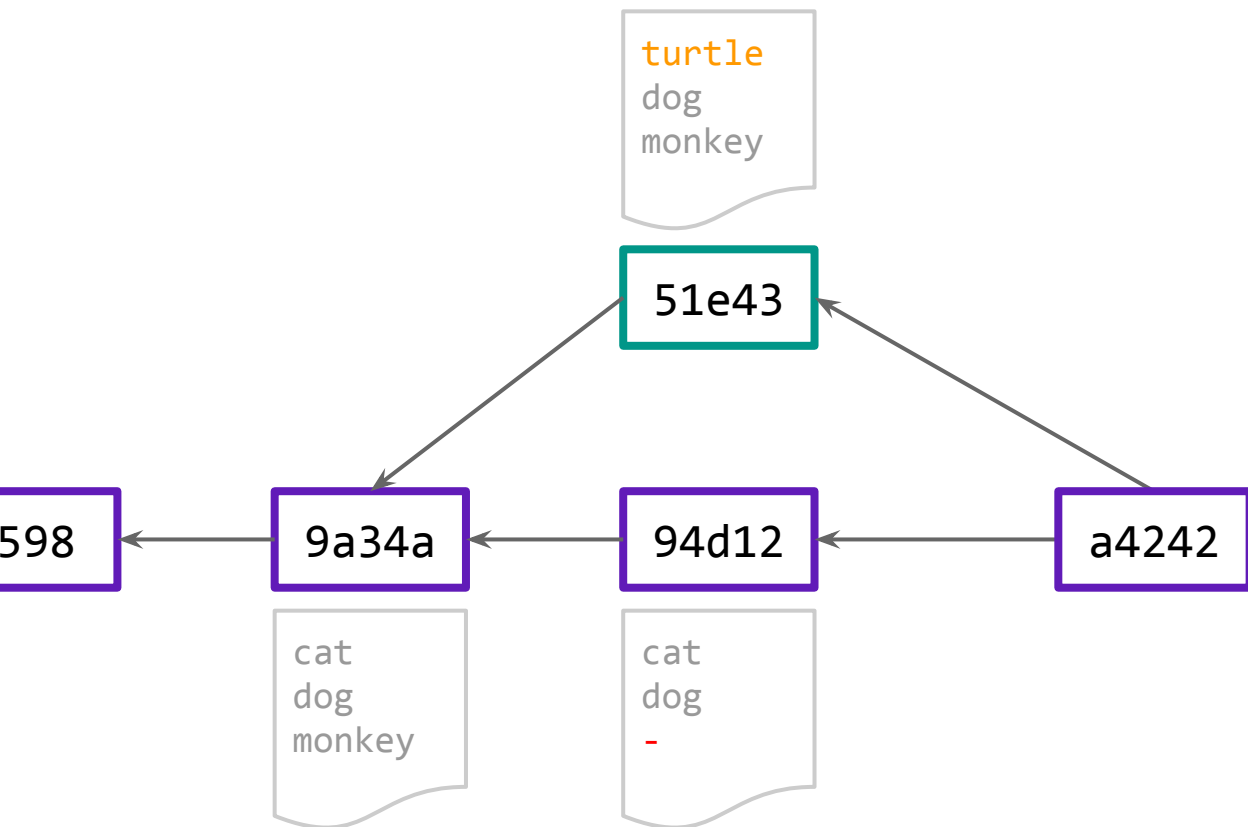
Différents types de merge

Sans conflit

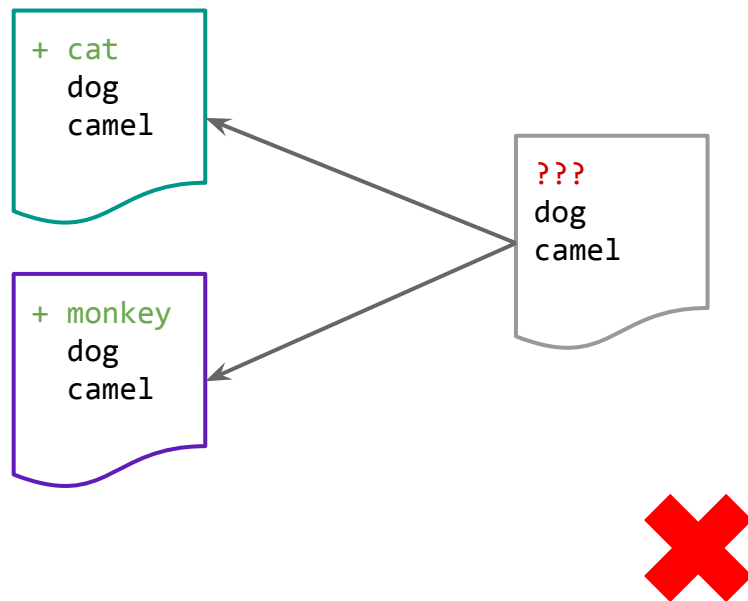
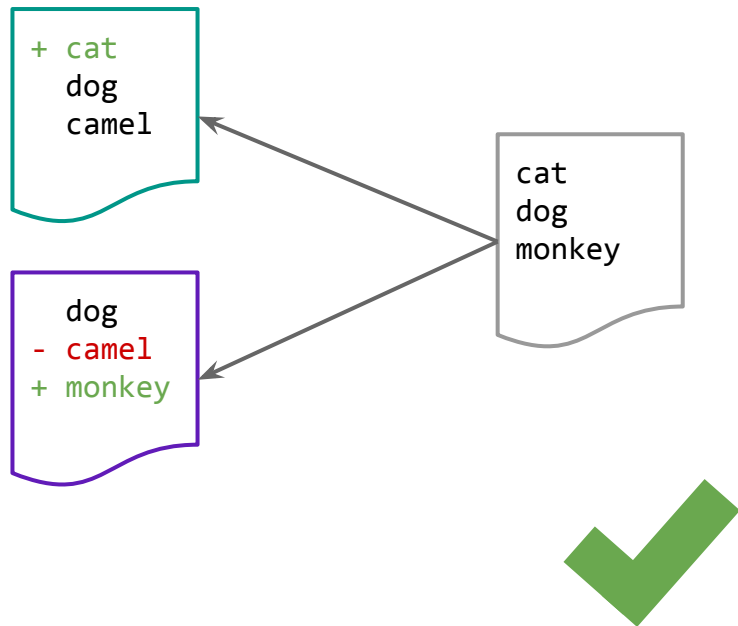


Différents types de merge

Sans conflit

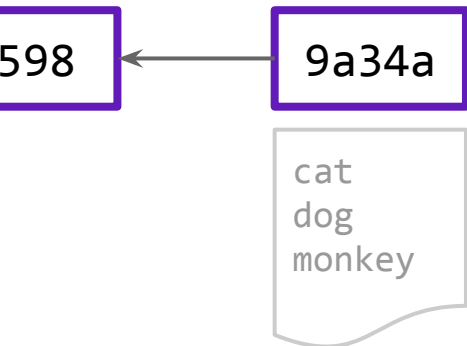


Merge automatique ?



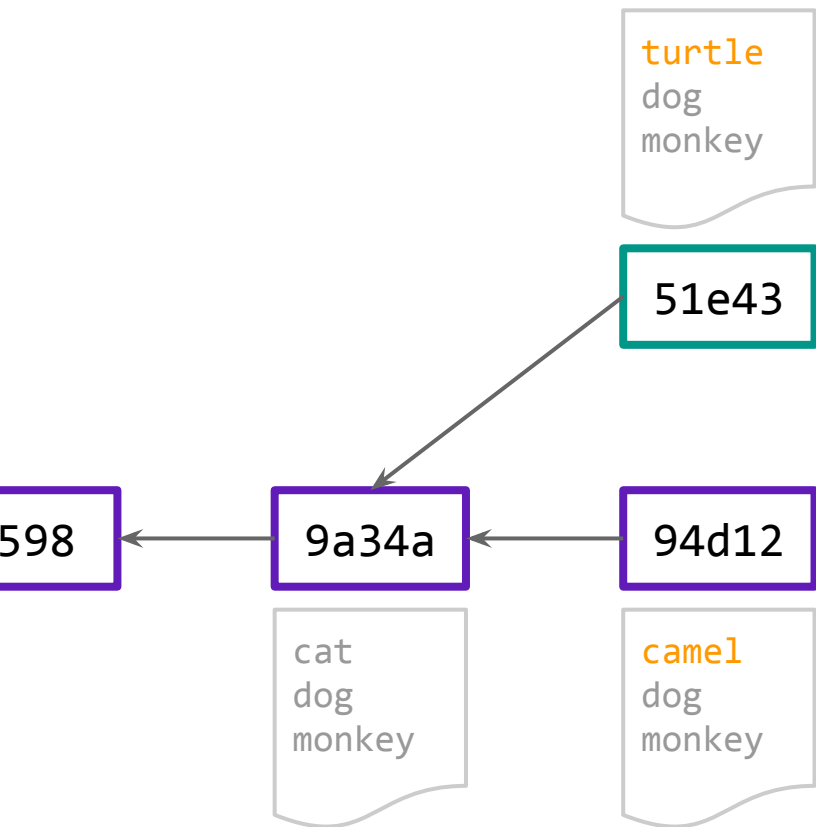
Différents types de merge

Avec conflit



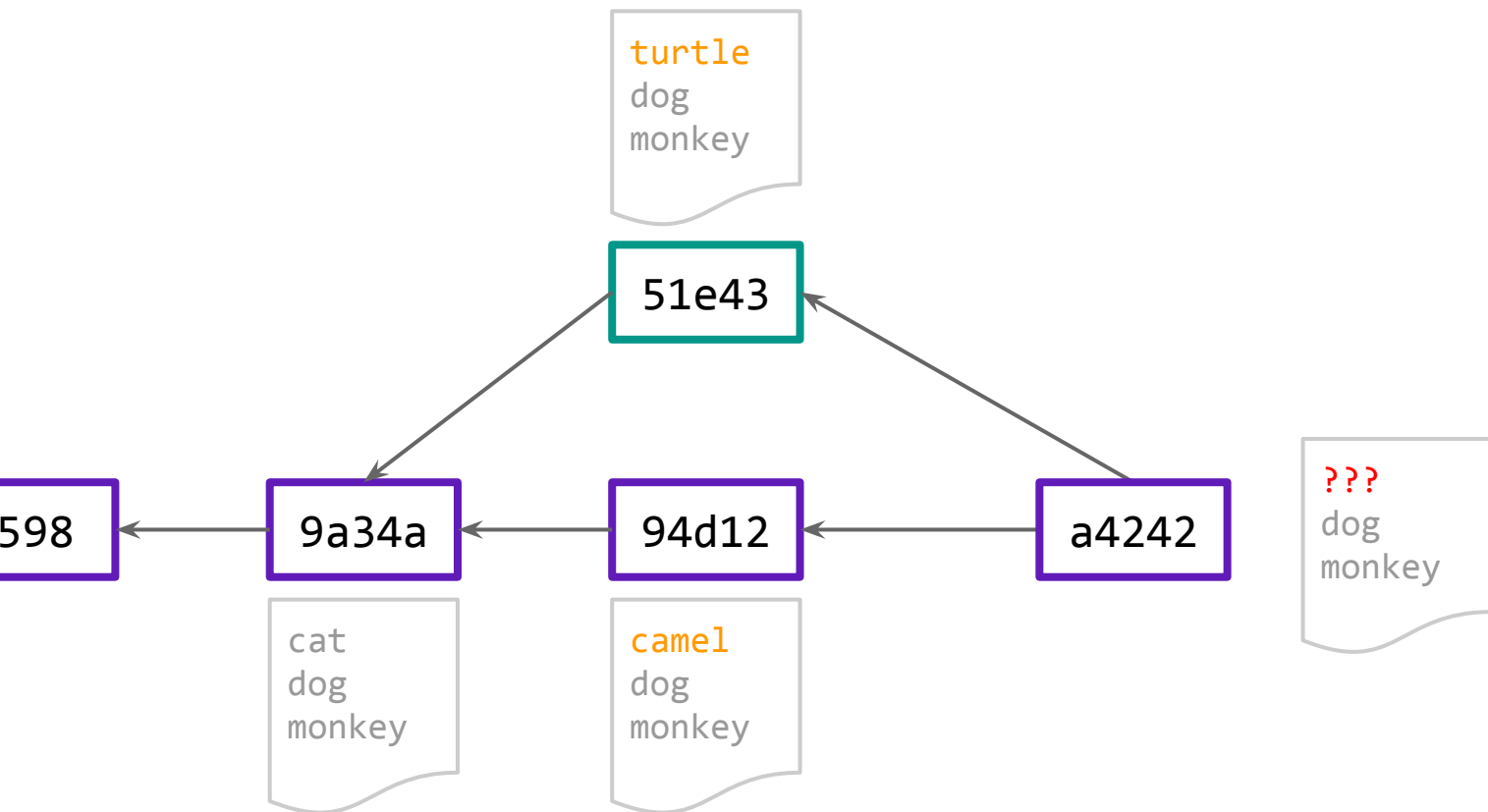
Différents types de merge

Avec conflit



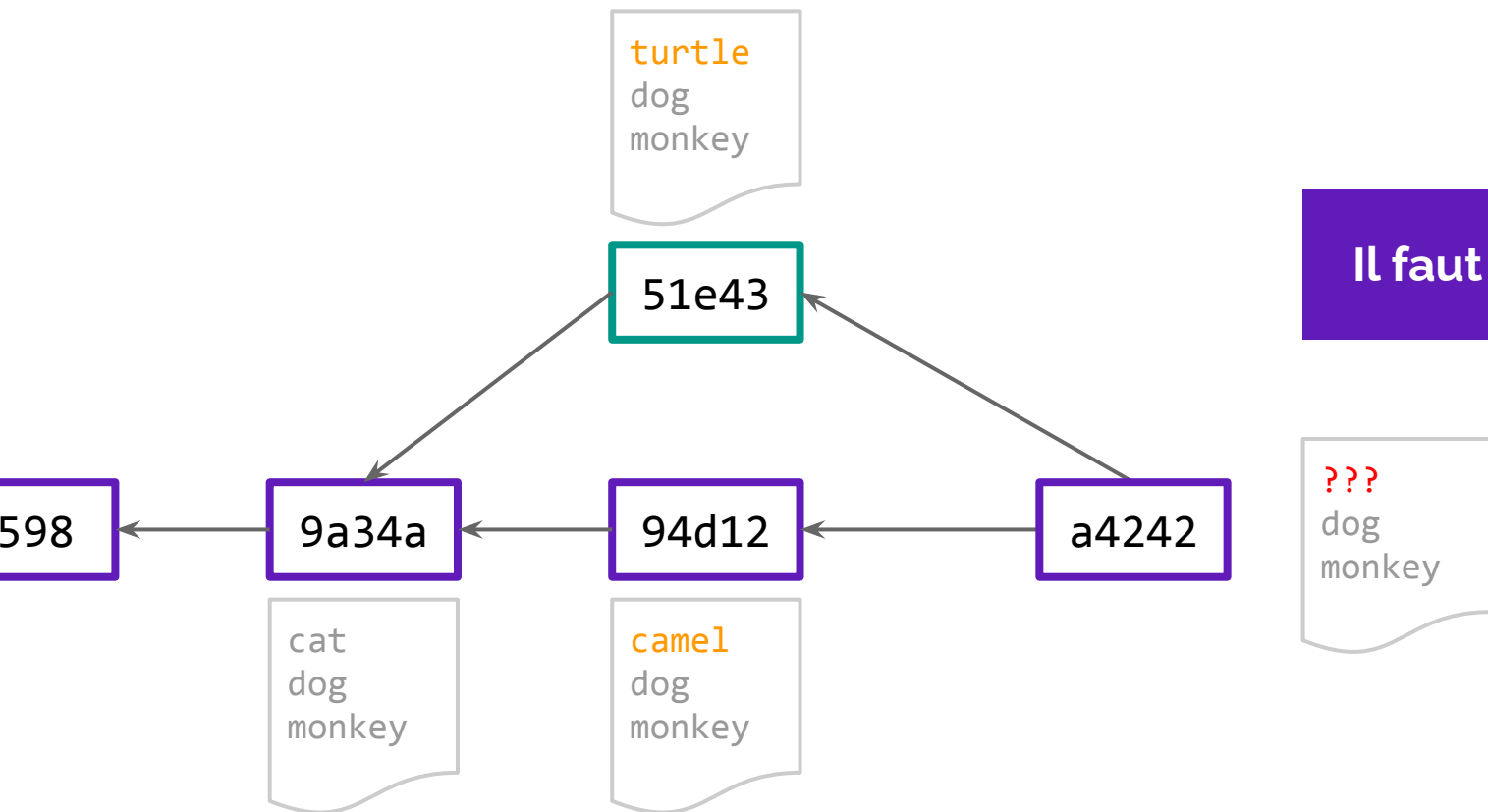
Différents types de merge

Avec conflit



Différents types de merge

Avec conflit



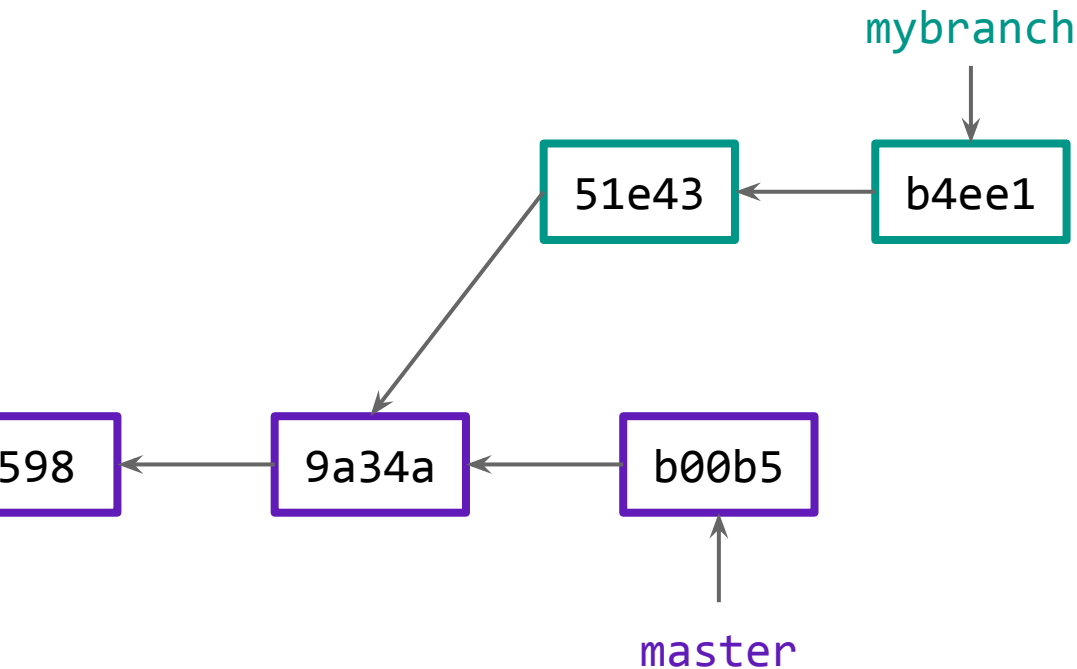
Il faut un humain!

Résolution de conflit

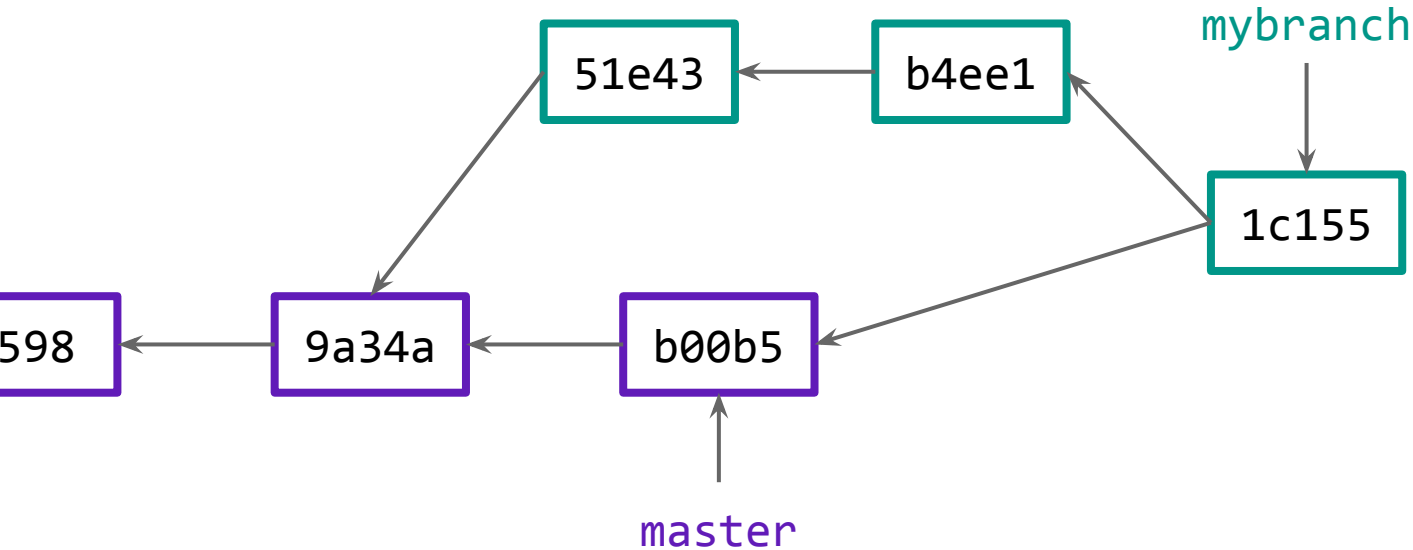
```
$ git status
# On branch branch-b
# You have unmerged paths.
#   (fix conflicts and run "git commit")
#
# Unmerged paths:
#   (use "git add ..." to mark resolution)
#
# both modified:      animals.txt
#
no changes added to commit (use "git add"
and/or "git commit -a")
```

```
<<<<<<< HEAD
camel
=====
turtle
dog
monkey
>>>>>>> zoo
```

(Tip) merge master dans la branche locale

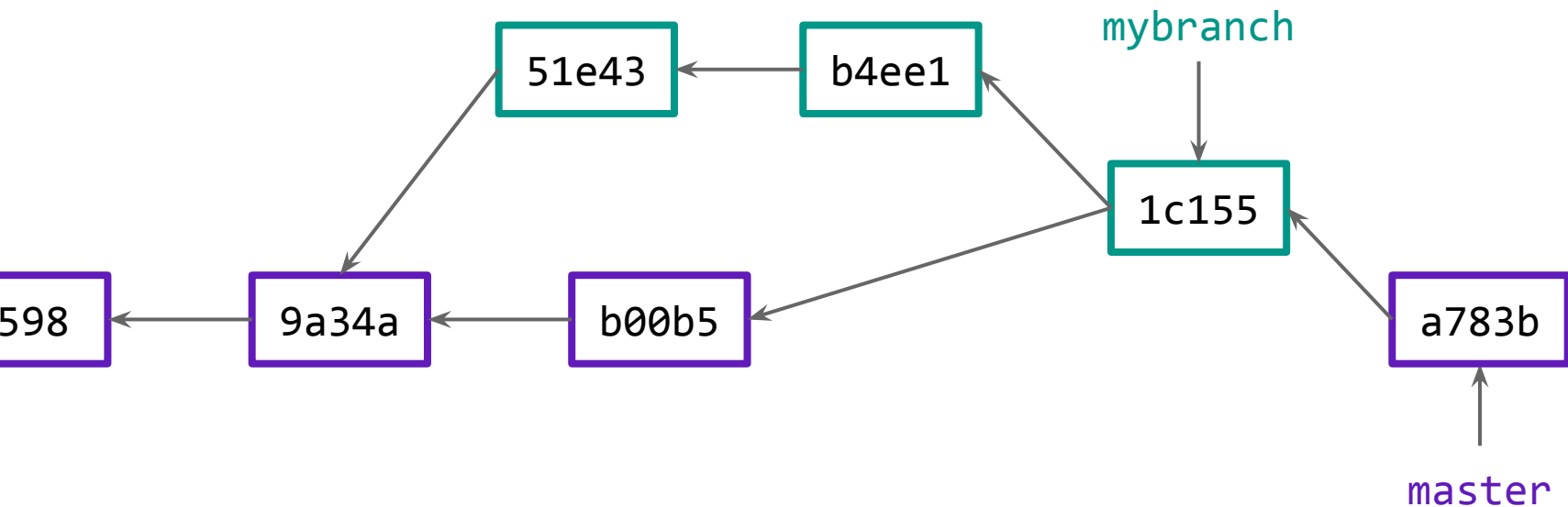


(Tip) merge master dans la branche locale



`git checkout mybranch & git merge master`

(Tip) merge master dans la branche locale



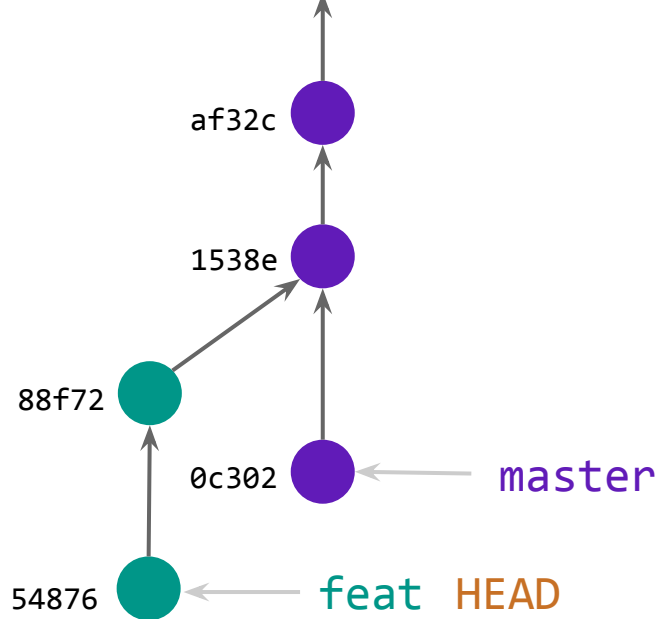
`git checkout master & git merge mybranch`

**Les branches sont
pratiquement
gratuites**

Faites-en souvent

La branche HEAD

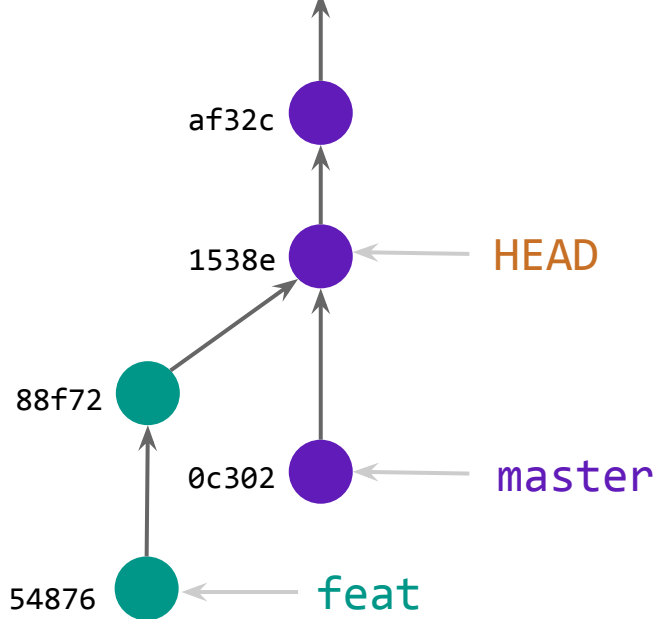
`git checkout feat`



La branche HEAD

`git checkout 1538e`

Detached
HEAD

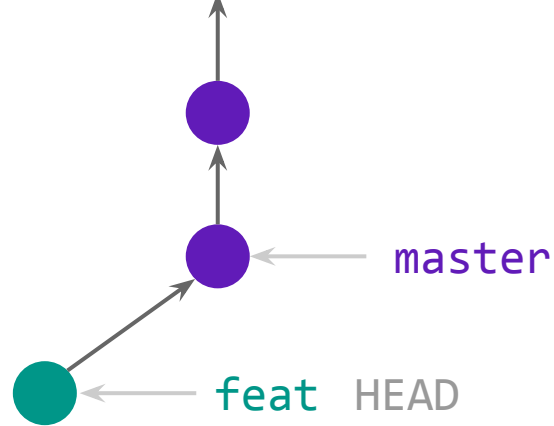


Résumé



Résumé

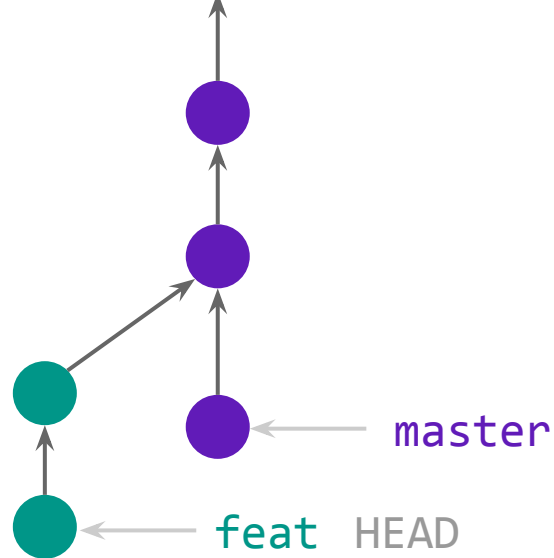
git branch feat



Résumé

git branch feat

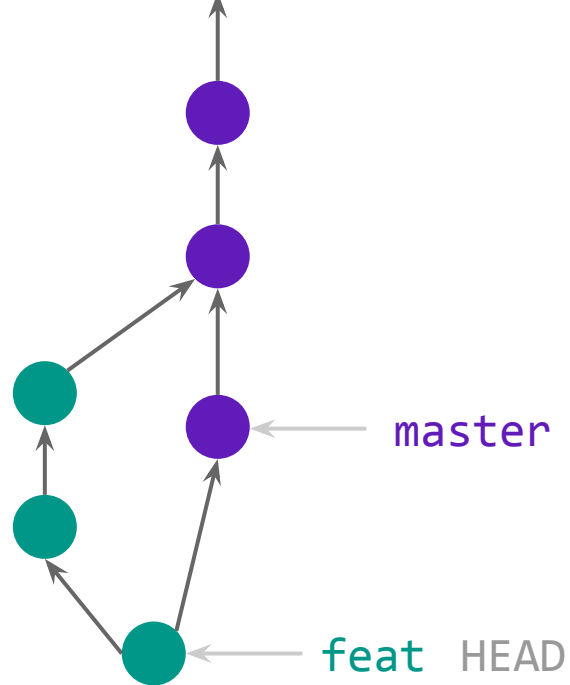
1



Résumé

git branch feat 1

git merge master 2

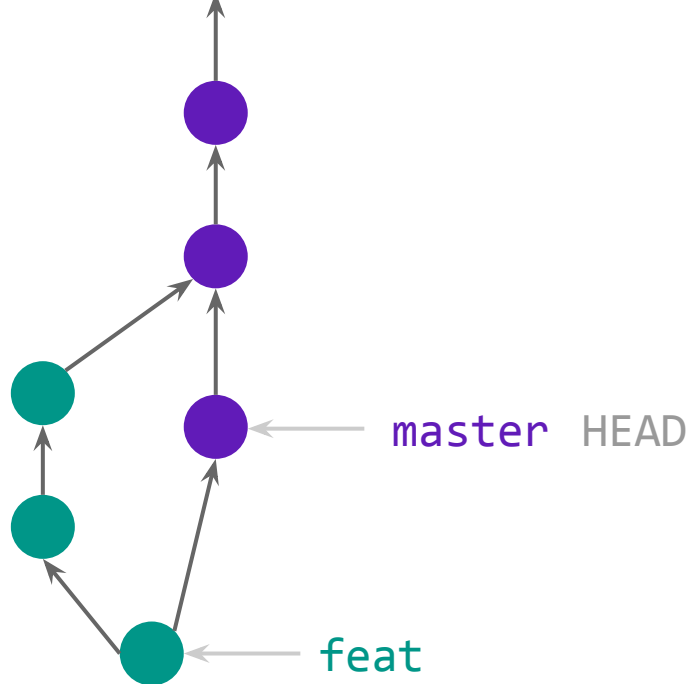


Résumé

git branch feat 1

git merge master 2

git checkout master 3



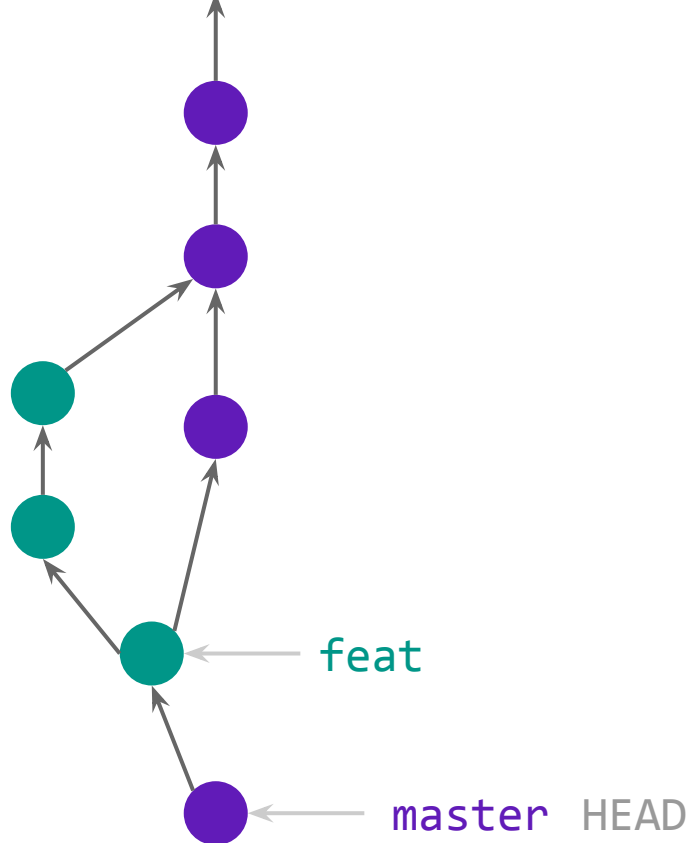
Résumé

git branch feat 1

git merge master 2

git checkout master 3

git merge feat 4



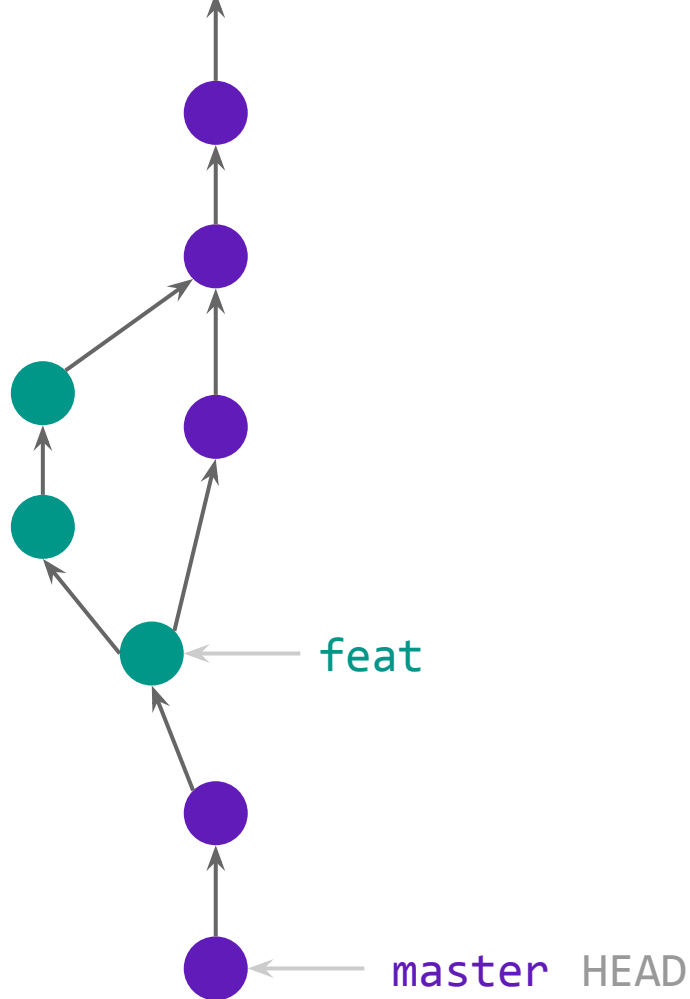
Résumé

git branch feat 1

```
git merge master
```

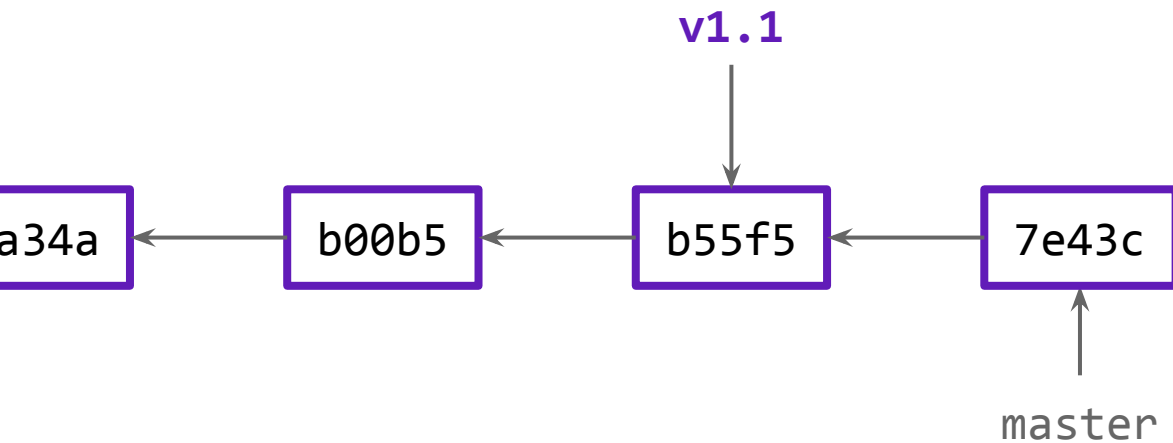
git checkout master 3

git merge feat 4



Tags

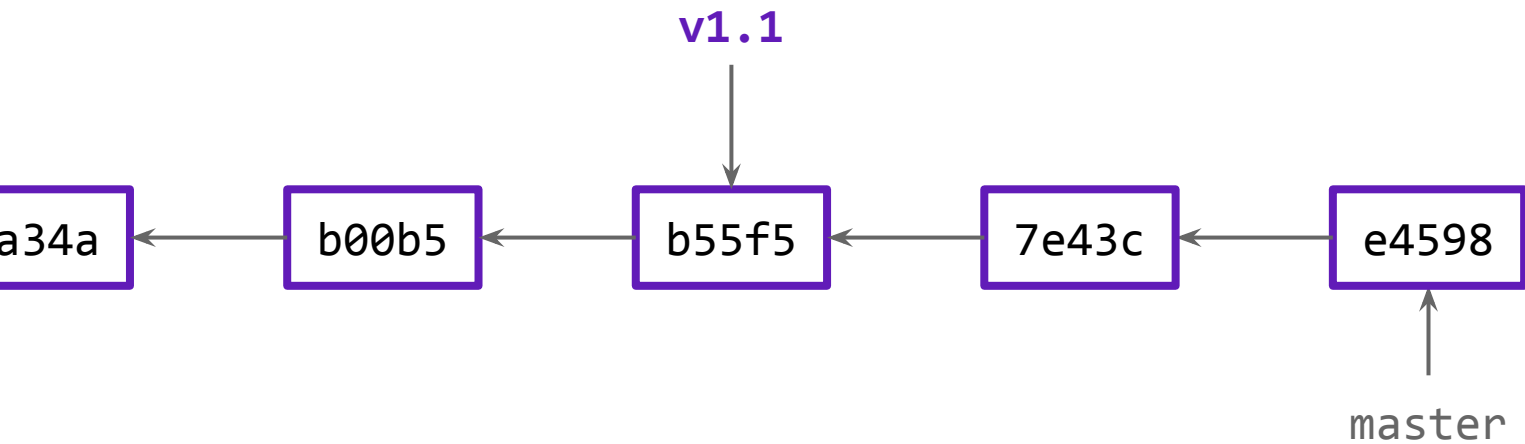
git tag v1.1



**Un tag est un nom
qui pointe sur un
commit**

Et pointera toujours
sur ce commit

Tags



Show time !

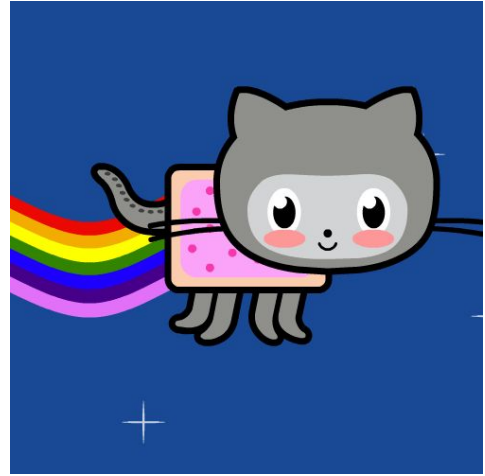
- Ajouter des modifications sur une autre branche
-

```
git checkout master  
git branch refrain  
git checkout refrain
```

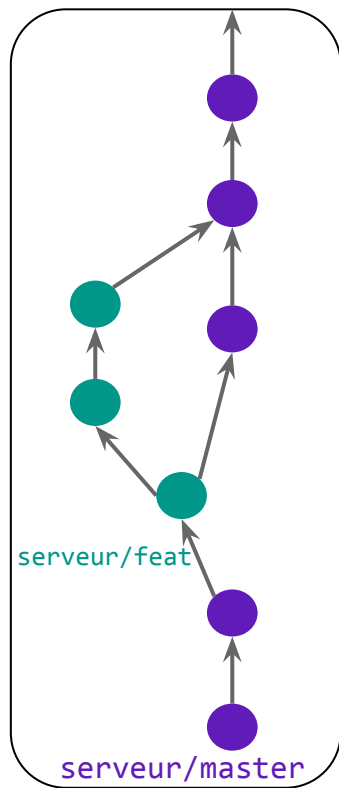
```
echo "tralala" >> chanson.txt  
git add chanson.txt  
git commit -m "[add] refrain"
```

```
git checkout master  
git merge refrain
```

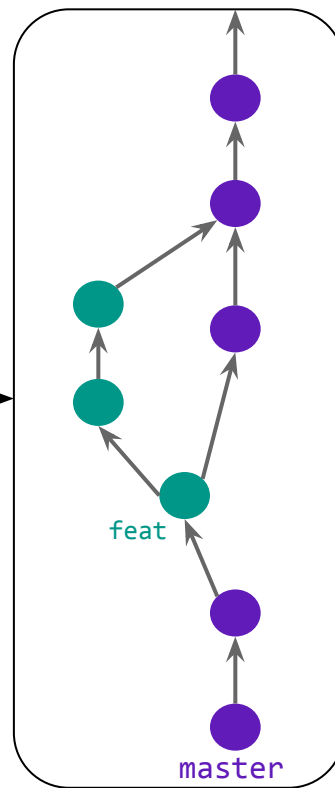
Git sur la toile



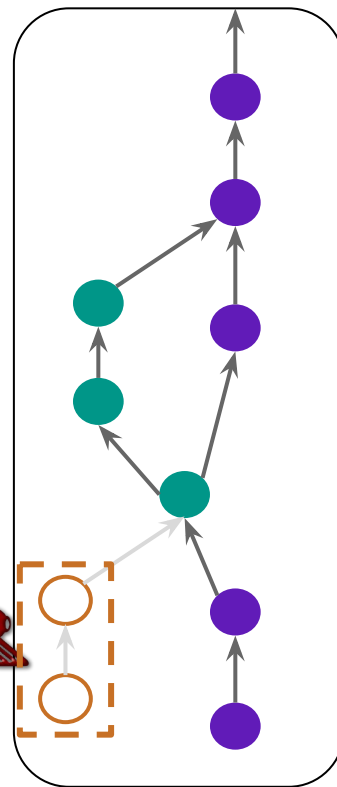
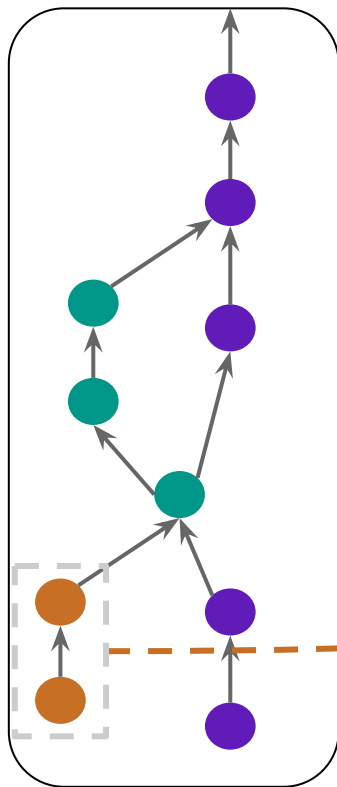
Clone



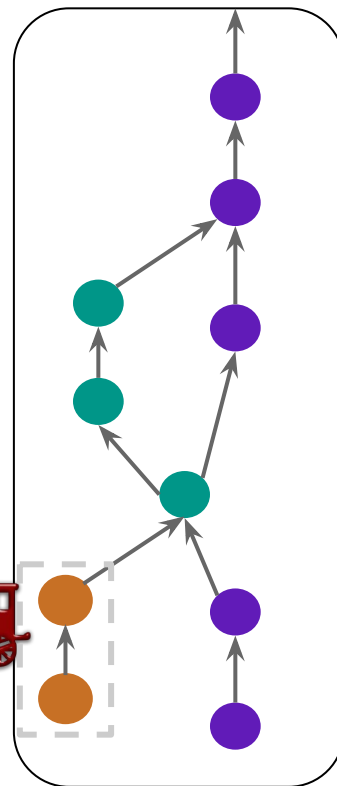
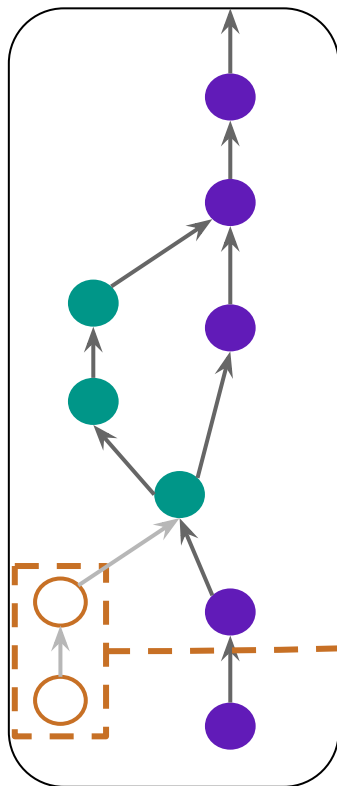
`git clone <url>`



Pull



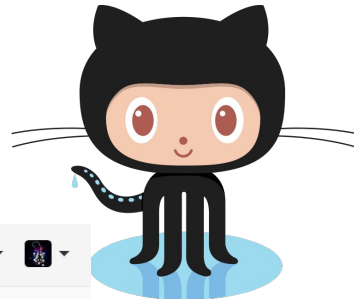
Push



Terminologie

- **Remote:** Repo distant
- **Fetch:** Copie de commits distants dans un repo local
- **Pull:** Fetch (+ merge)
- **Push:** Envoi de commits sur un repo distant
- **Remote update:** Mettre à jour les références locales sur un repo distant
- **Commit-ish:** Un hash de commit, ou un nom pointant dessus (branche, tag)
 - La plupart des opérations sont définies dessus: checkout, push, pull, ...

GitHub



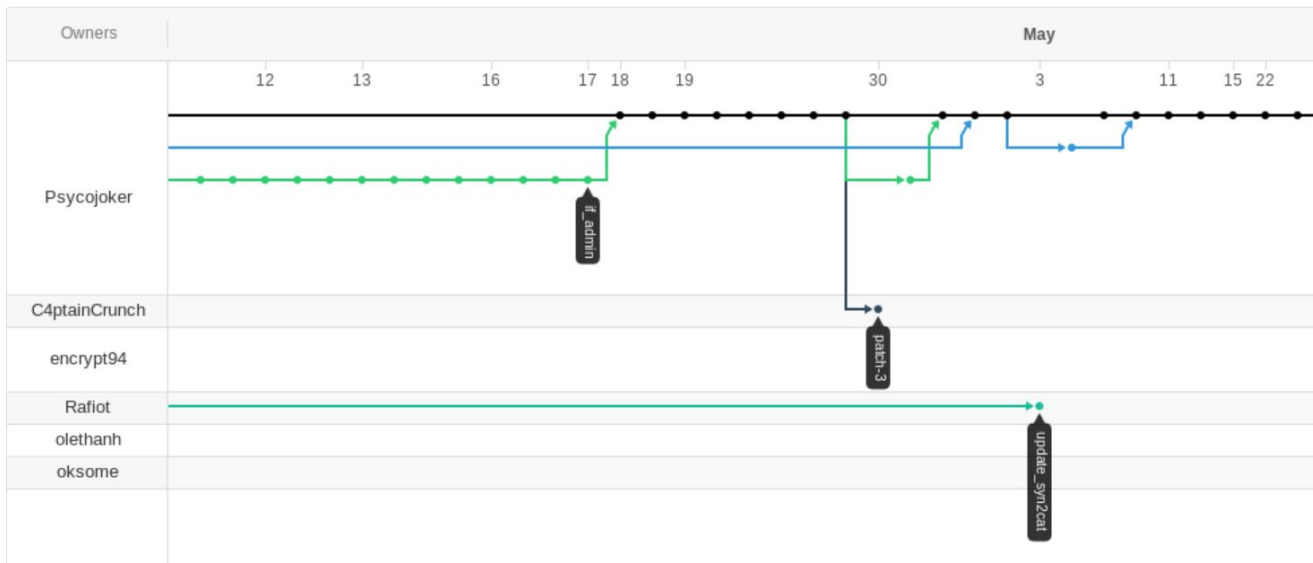
GitHub repository interface for **Psycojoker / hackeragenda**.

Navigation tabs: Pull requests, Issues, Gist.

Repository statistics: 7 Unwatch, 19 Unstar, 17 Fork.

Repository tabs: Code, Issues (28), Pull requests (0), Projects (0), Wiki, Pulse, Graphs.

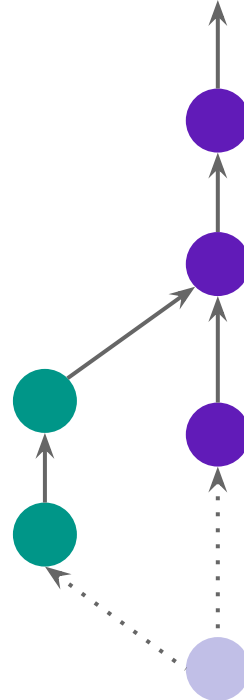
Repository navigation tabs: Contributors, Traffic, Commits, Code frequency, Punch card, **Network**, Members, Dependents.



Pull Requests



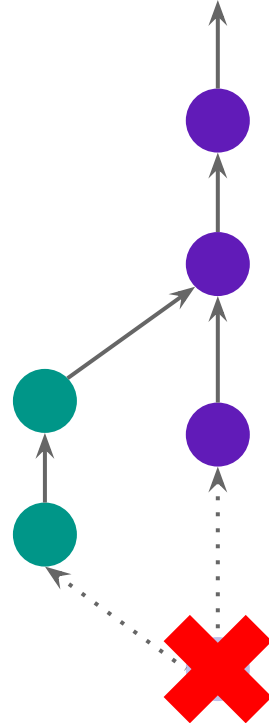
- amélioré le crachage
- traduction en péruvien
- fixé la fourrure

[illegible]

Pull Requests



- amélioré le crachage
- traduction en péruvien
- fixé la fourrure

[illegible]

non lol
t nul xD



Pull Requests



- amélioré le crachage
- traduction en péruvien
- fixé la fourrure

```
11 projects/views.py
6 from datetime import datetime
9 from actstream import action
10 from math import ceil
11
12
13 from users.decorators import permission_required
14 from users.mixins import PermissionRequiredMixin
15
16 @login_required
17 @def clusters_of(request, size):
18
19     def projects_home(request):
20         projects = Project.objects.prefetch_related('participants').select_related('maintainer').order_by('-modified')
21
22         return render(request, 'projects_home.html', {
23             'projects': clusters_of(request, 4)
24         })
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Issues

- Bugs
- Requests
- ...

UrLab / incubator

Watch 12

Star 6

Fork 6

<> Code

Issues 8

Pull requests 6

Projects 0

Pulse

Graphs

Settings

Filters

is:issue is:open

Labels

Milestones

New issue

| | | | | | | |
|--------------------------|--|--------|--------|------------|----------|------|
| <input type="checkbox"/> | 8 Open ✓ 15 Closed | Author | Labels | Milestones | Assignee | Sort |
| <input type="checkbox"/> | Proba d'ouvertures - visual glitch #107 opened on Oct 6, 2016 by fhennecker | | | | | 5 |
| <input type="checkbox"/> | Upgrade to Django 1.10 #100 opened on Sep 29, 2016 by C4ptainCrunch | | | | | |
| <input type="checkbox"/> | Afficher un diff sur le wiki enhancement #75 opened on Feb 21, 2016 by C4ptainCrunch | | | | | |
| <input type="checkbox"/> | Login form should redirect to the previous page #72 opened on Feb 20, 2016 by Psychojoker | | | | | |
| <input type="checkbox"/> | L'ICS des événements est invalide bug #68 opened on Feb 14, 2016 by C4ptainCrunch | | | | | 3 |
| <input type="checkbox"/> | Les boutons pour effectuer des actions sont visibles même si on a pas la permission de l'utiliser #65 opened on Feb 13, 2016 by C4ptainCrunch | | | | | |
| <input type="checkbox"/> | Les URL des pad ne sont pas uniques #60 opened on Feb 2, 2016 by C4ptainCrunch | | | | | |
| <input type="checkbox"/> | Un utilisateur sans projet n'a pas de default #6 opened on Nov 10, 2015 by C4ptainCrunch | | | | | |

Issues

UrLab / incubator

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L'ICS des événements est invalide #68

[Edit](#)[New issue](#)[Open](#) C4ptainCrunch opened this issue on Feb 14, 2016 · 3 comments

C4ptainCrunch commented on Feb 14, 2016

Member



En tout cas d'après <http://severinghaus.org/projects/icv?url=http://urlab.be/events/urlab.ics>



titouanc commented on Feb 15, 2016

Member



Effectivement, `str(Calendar())` ne contient que des `\n`, pas de `\r` (j'ai ics.py 0.3.1, dernière en date)

```
$ ./manage.py shell
Python 3.4.3 (default, Mar 26 2015, 22:03:40)
Type "copyright", "credits" or "license" for more information.
```

```
IPython 4.1.1 -- An enhanced Interactive Python.
?      -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help    -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra details.
```

```
In [1]: from ics.icalendar import Calendar
```

```
In [2]: str(Calendar())
Out[2]: 'BEGIN:VCALENDAR\nPRODID:ics.py - http://git.io/LLljaA\nVERSION:2.0\nEND:VCALENDAR'
```

Assignees



C4ptainCrunch

Labels



bug

Projects

None yet

Milestone



No milestone

Notifications

Subscribe

You're not receiving notifications from this thread.

2 participants



Show time !

<https://github.com/urlab/wsgit2020>

- Regardez les issues
- Ajoutez un commentaire dessus
- Donnez votre impression
- Ouvrez une pull request pour les résoudre

Git avancé



Gitignore

- Un fichier nommé **.gitignore** commité dans le repo
- Indique les noms de fichiers que git doit ignorer
 - Fichiers de configuration locaux ou fichiers privés
 - Résultats intermédiaires de compilation
 - Paquets de dépendances, ...

.gitignore

```
*.pyc  
ve/  
local_config.py  
*.aux  
*.log
```


Git under the hood

Tree

Blob 23f42 (animals.txt)

Blob

cat

Commit

Parent 9a34a

Auteur Donald

Message Make code great again

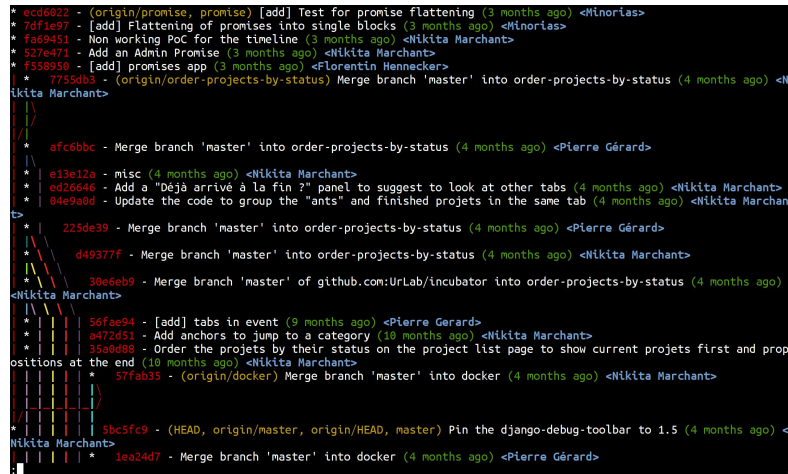
Date 2017-01-20

Tree [structure interne de git]



Aliases

- Avoir des noms de commandes plus courts
 - `git config [--global] alias.co checkout`
- Avoir des commandes plus complexes
 - `git config [--global] alias.hist "log --all --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %C(bold blue)<%an>%Creset' --abbrev-commit"`
- Enregistrés dans le fichier `.gitconfig`
- Les préférences peuvent aussi être gittées !



```
* ecd6822 - (origin/promise, promise) [add] Test for promise flattening (3 months ago) <Minorias>
* 7df1e97 - [add] Flattening of promises into single blocks (3 months ago) <Minorias>
* fa69451 - Non working PoC for the timeline (3 months ago) <Nikita Marchant>
* 527e471 - Add an Admin Promise (3 months ago) <Nikita Marchant>
* f558950 - [add] promises app (3 months ago) <Florentin Hennecker>
* 7755d83 - (origin/order-projects-by-status) Merge branch 'master' into order-projects-by-status (4 months ago) <Nikita Marchant>

* afc6bbc - Merge branch 'master' into order-projects-by-status (4 months ago) <Pierre Gérard>

* e13e12a - misc (4 months ago) <Nikita Marchant>
* ed26646 - Add a "Déjà arrivé à la fin ?" panel to suggest to look at other tabs (4 months ago) <Nikita Marchant>
* 04e9a8d - Update the code to group the "ants" and finished projects in the same tab (4 months ago) <Nikita Marchant>

* 225de39 - Merge branch 'master' into order-projects-by-status (4 months ago) <Pierre Gérard>

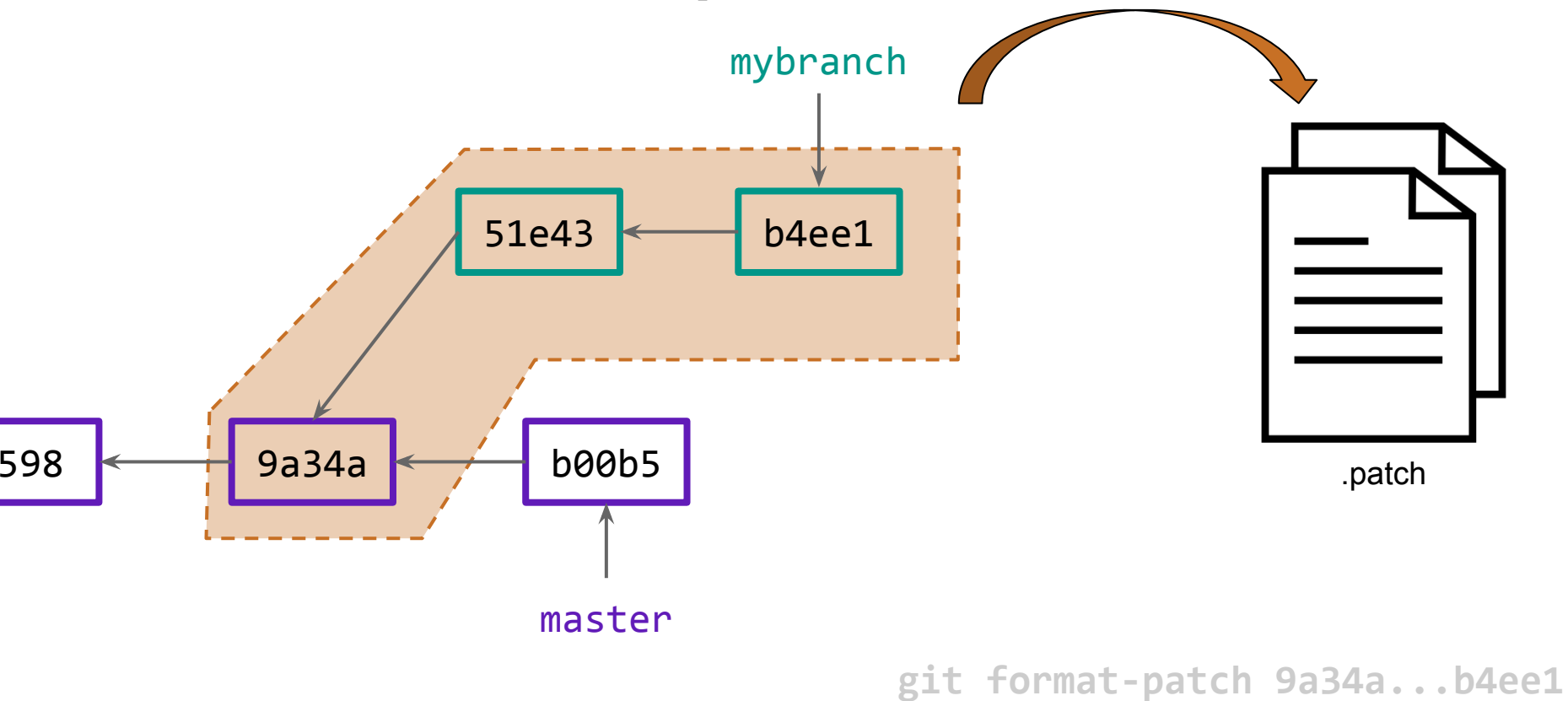
* d49377f - Merge branch 'master' into order-projects-by-status (4 months ago) <Nikita Marchant>

* 38e6eb9 - Merge branch 'master' of github.com:UrLab/incubator into order-projects-by-status (4 months ago) <Nikita Marchant>

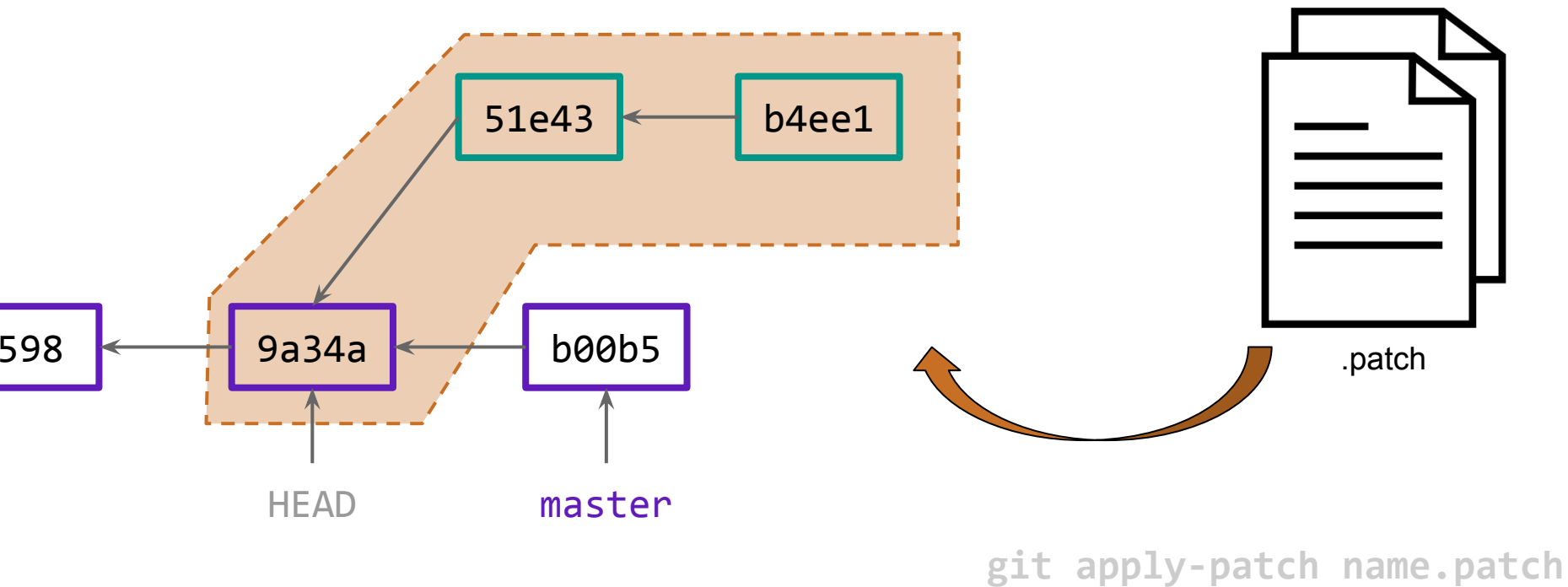
* 56fae94 - [add] tabs in event (9 months ago) <Pierre Gérard>
* a472d51 - Add anchors to jump to a category (10 months ago) <Nikita Marchant>
* 35a0489 - Order the projects by their status on the project list page to show current projects first and previous positions at the end (10 months ago) <Nikita Marchant>
* 57fab35 - (origin/docker) Merge branch 'master' into docker (4 months ago) <Nikita Marchant>

* 5bc5fc9 - (HEAD, origin/master, origin/HEAD, master) Pin the django-debug-toolbar to 1.5 (4 months ago) <Nikita Marchant>
* 1ea24d7 - Merge branch 'master' into docker (4 months ago) <Pierre Gérard>
```

Patches manuels (export)

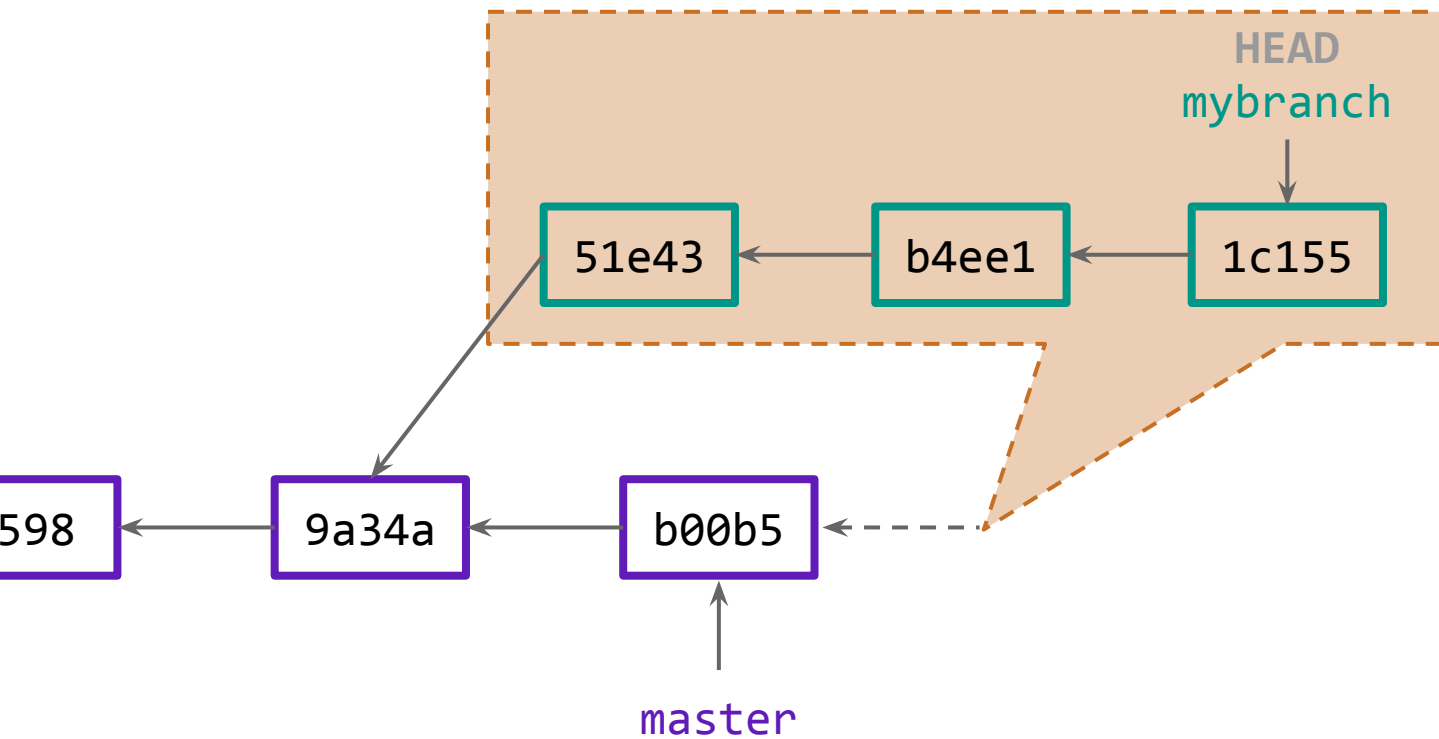


Patches manuels (import)



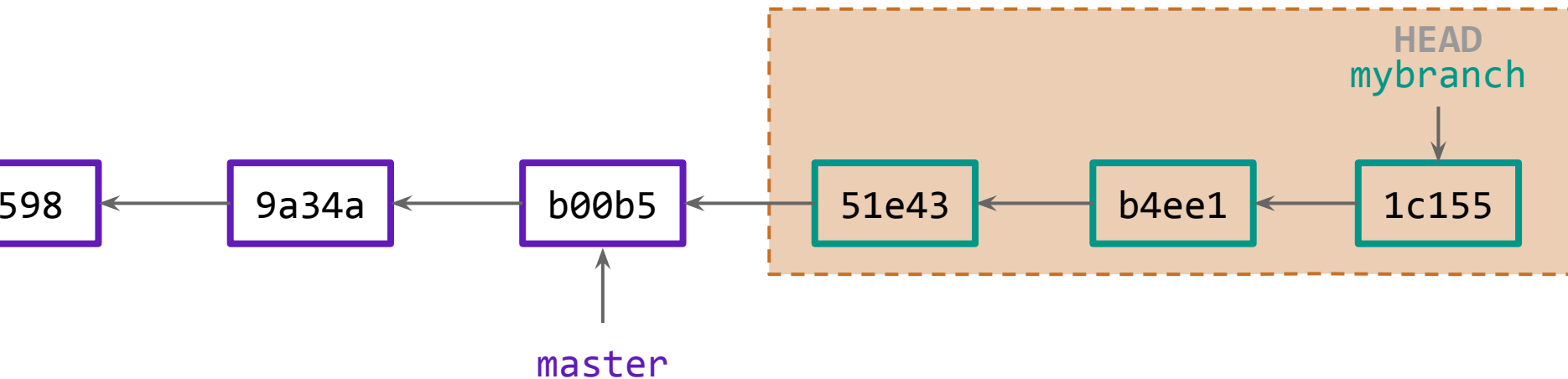
Rebase

git checkout mybranch



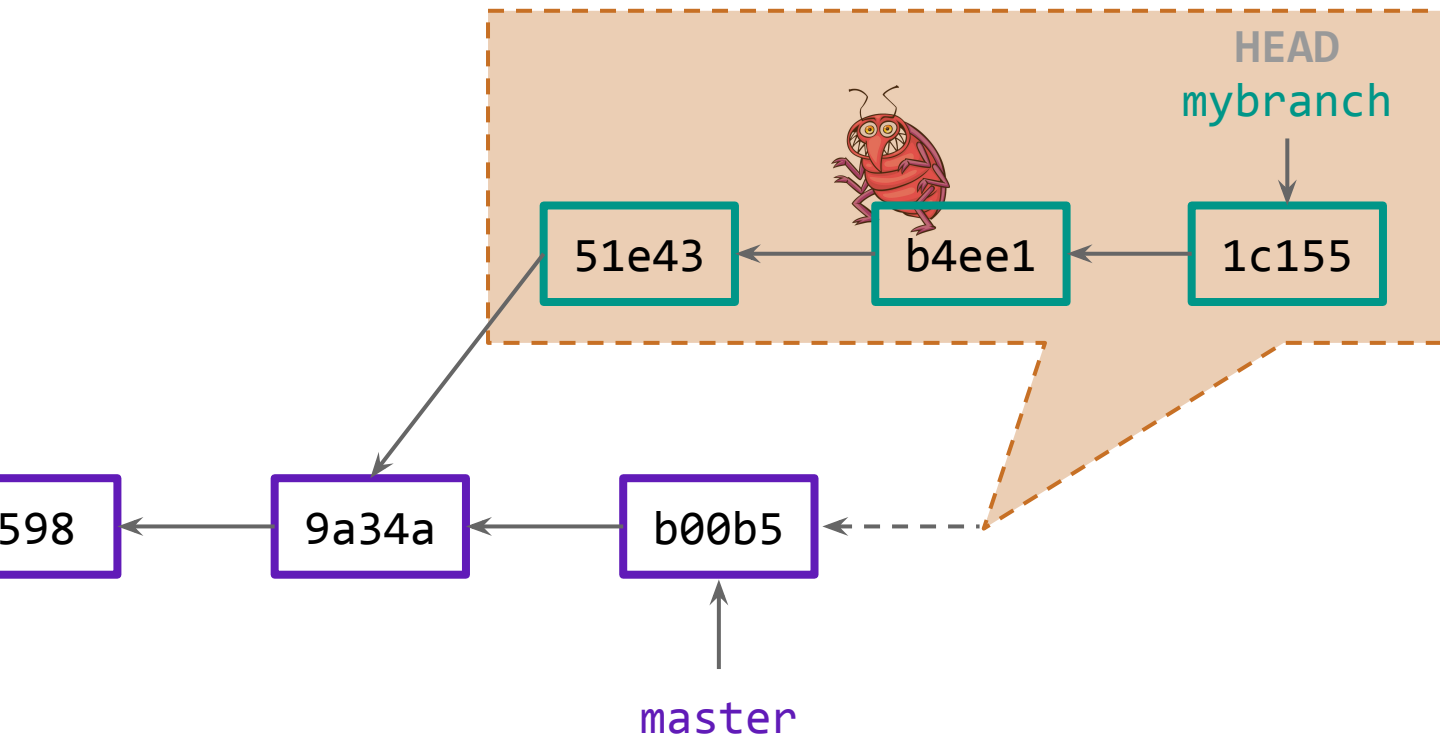
Rebase

git rebase master



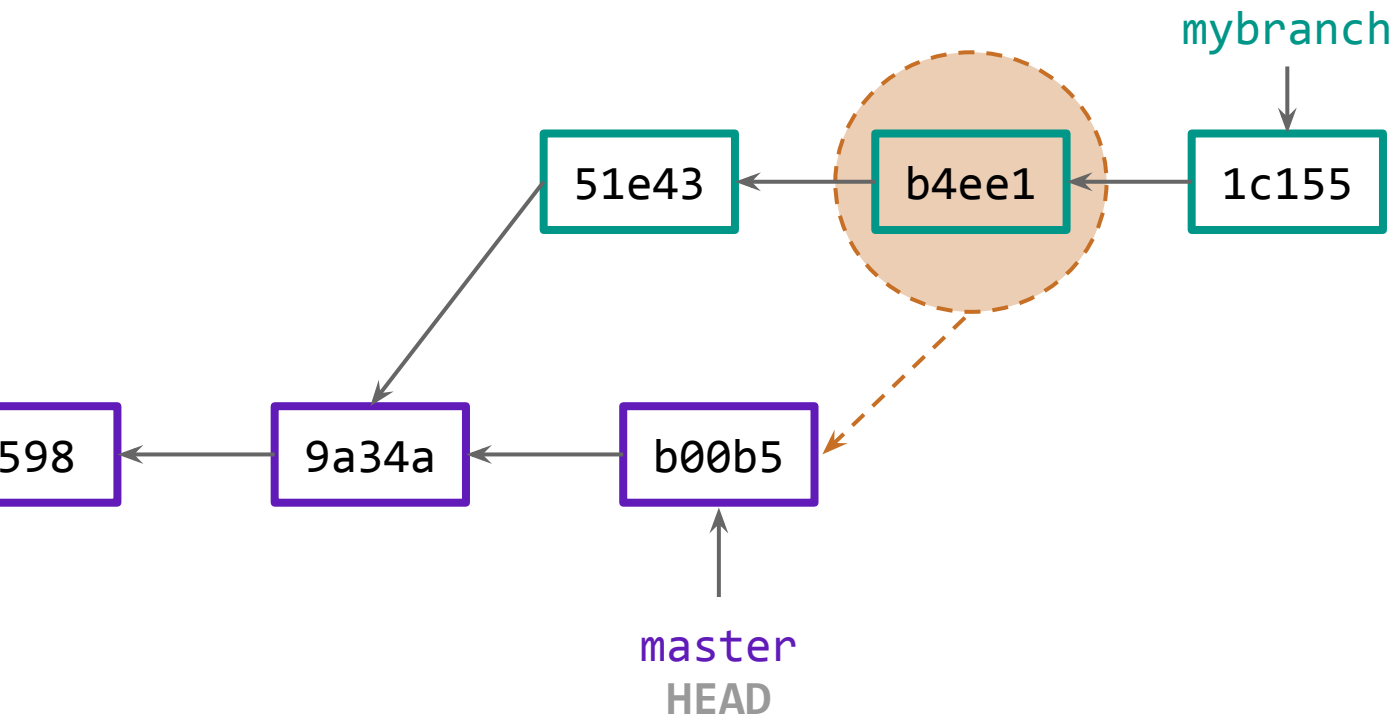
Rebase interactif

git rebase
--interactive master



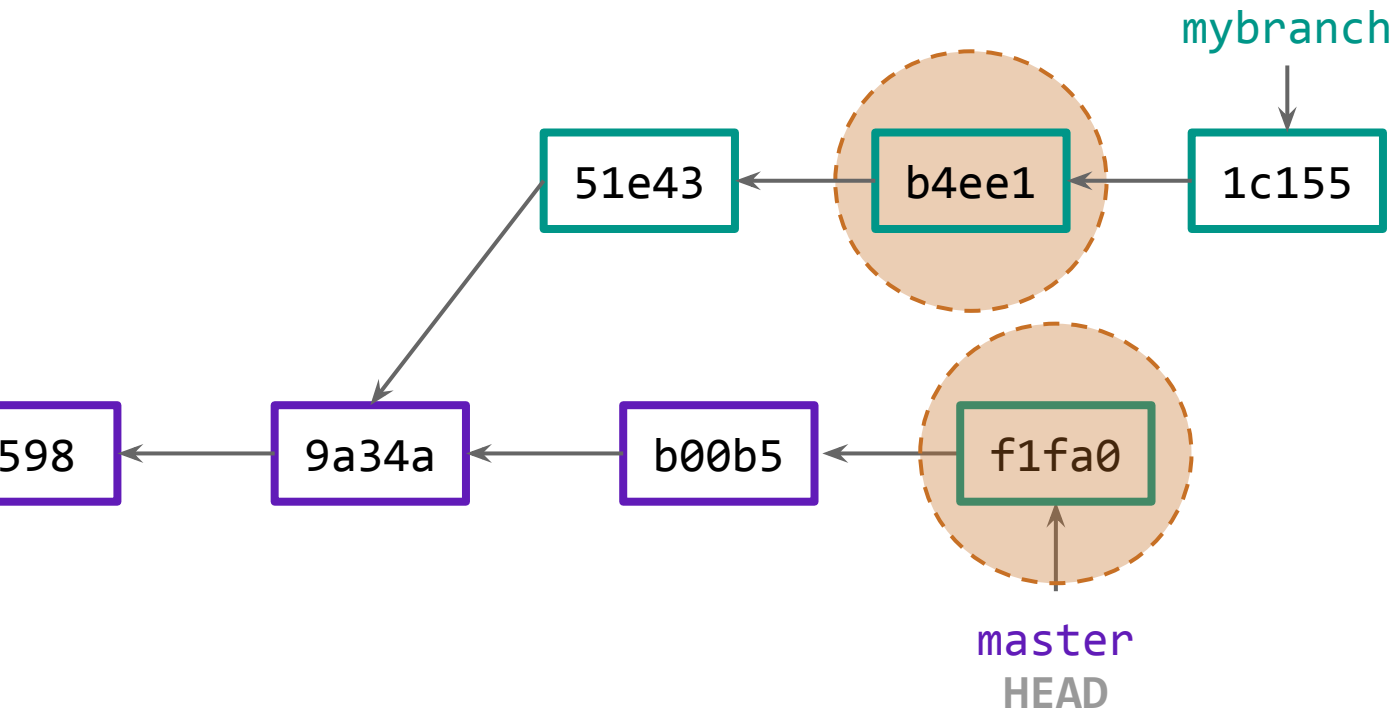
cherry-pick

git cherry-pick b4ee1



git cherry-pick b4ee1

cherry-pick



Show time !



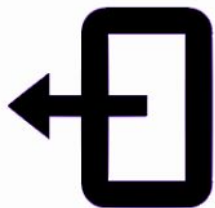
In case of fire



1. `git commit`



2. `git push`



3. `leave building`