

OCA Days Liège 2024

Making Odoo mightier, together

GIT Insides

- technical -

Pierre Verkest



Together, we design your business tools, tailored and integrated into your ecosystem.













Pierre Verkest

SQLAlchemy



django



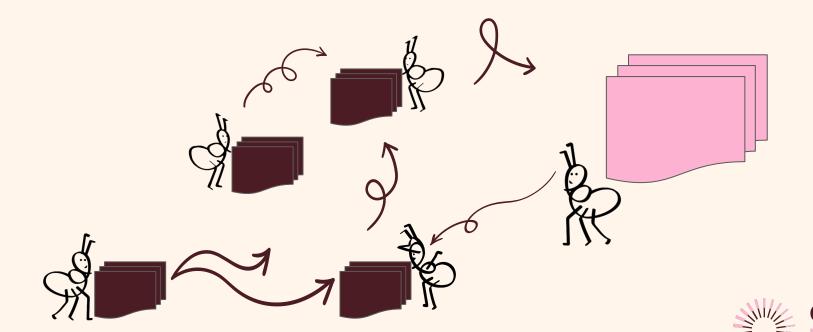
gh: petrus-v in: pierre-verkest pierre@verkest.fr







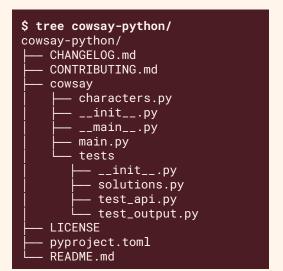
DVCS: Distributed Version Control System





git clone: Get my own copy

```
$ git clone https://github.com/VaasuDevanS/cowsay-python
Clonage dans 'cowsay-python'...
remote: Enumerating objects: 473, done.
remote: Counting objects: 100% (192/192), done.
remote: Compressing objects: 100% (89/89), done.
remote: Total 473 (delta 108), reused 159 (delta 91), pack-reused 281
(from 1)
Réception d'objets: 100% (473/473), 277.85 Kio | 6.04 Mio/s, fait.
Résolution des deltas: 100% (239/239), fait.
```









Cowsay

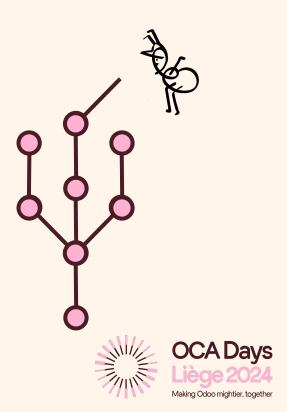






git checkout -b: Update working directory and create a new branch

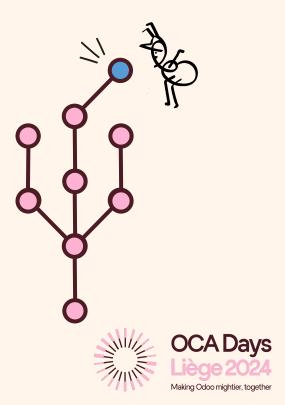
```
$ cd cowsay-python
$ git checkout origin/main -b feat-add-ants
Basculement sur la nouvelle branche 'feat-add-ants'
$ ait diff
diff --git a/cowsay/characters.py b/cowsay/characters.py
index 3db9bad..646b620 100644
--- a/cowsay/characters.py
+++ b/cowsay/characters.py
@@ -1,5 +1,16 @@
CHARS = {
    "tiny": r'''
             @@@
                                 @@@@@@@
                                                       @@@@@@@@@@@
    @@@@@
              @@@@@@
                                                              @@@@@@@@
    "beavis": r'''
```





git commit: Save your work and make a snapshot of the current state

\$ git commit -am "[ADD] tiny ant character"
[feat-add-ants feb16b6] [ADD] tiny ant character
1 file changed, 12 insertions(+), 1 deletion(-)

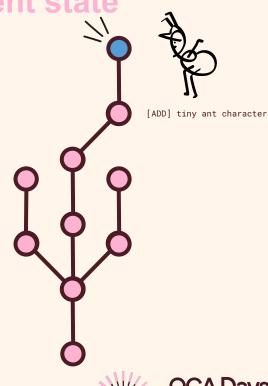




git commit: Save your work and make a snapshot of the current state

\$ git commit -am "[ADD] tiny ant character"
[feat-add-ants feb16b6] [ADD] tiny ant character
1 file changed, 12 insertions(+), 1 deletion(-)

[...]
\$ git commit -am "[ADD] OCA ant character"
[feat-add-ants feb16b6] [ADD] tiny ant character
1 file changed, 12 insertions(+), 1 deletion(-)



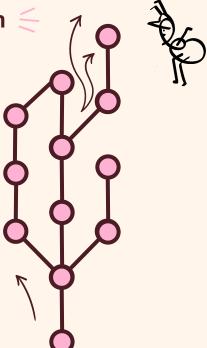




git log: look for history

DAG:Directed Acyclic Graph

```
$ git log --oneline --graph --decorate
* 99f30bc (HEAD -> feat-add-ants) [ADD] OCA ant character
* feb16b6 [ADD] tiny ant character
* 3db622c (origin/main, origin/HEAD, main) Update README.md
* 4a8fe1d pyproject.toml instead of setup.py
* 433a213 pytests's capsys instead of sys
* 75c3023 3.12 final version in actions
    d5e9eb1 Merge pull request #28 from VaasuDevanS/bump-urllib3-2.0.6
  * 4cd31cb Bump urllib3 from 2.0.4 to 2.0.6
    acec907 Merge remote-tracking branch 'origin/main'
  * fe3ce5a Rename LICENSE.txt to LICENSE
    5e5f013 removed .idea
* 9b627e1 (tag: v6.1) added python requires in setup.py
* b6ec91b changed to 3.12.0-rc.3
* e5b4860 test for 3.12
```





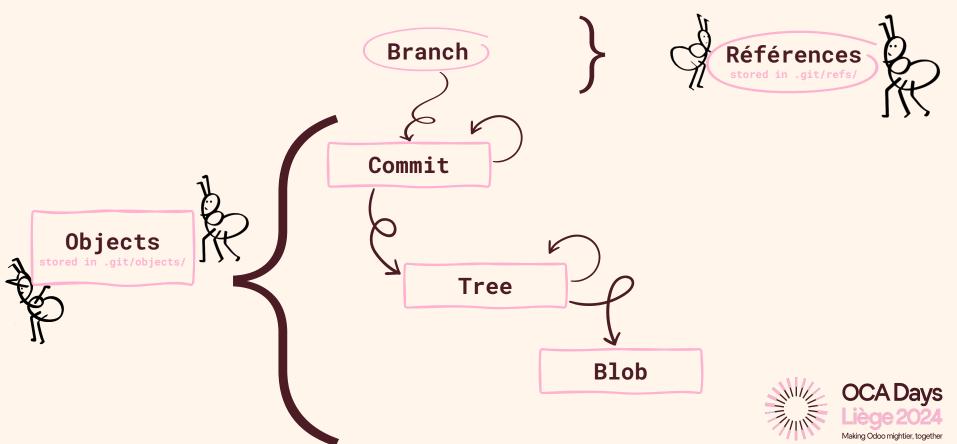
Dive into the .git/ directory

```
$ git log --oneline --graph --decorate
* 99f30bc (HEAD -> feat-add-ants) [ADD] OCA ant character
* feb16b6 [ADD] tiny ant character
* 3db622c (or main, origin/HEAD, main) Update
README.md
* 4a8fe1d pyproject.toml instead of setup.py
* 433a213 pytests's capsys instead of sys
* 75c3023 3.12 final ve $10. in actions
   d5e9eb1 Merge pull request #28 from
$ git cat-file 857526a -p
100644 blob a93c13d CHNIGELOG.md
100644 blob f63e8ec CONTRIBUTING.md
100644 blob f288702 LICENSE
100644 blob 5e54742 README.md
040000 tree e9e5f8a cowsay
100644 blob 8ac28c8 pyproject.toml
* e5b4860 test for 3.12
```

```
S cat .git/refs/heads/feat-add-ants
 $ git cat-file e9e5f8a -p
 100644 blob bee5b82 __init__.py
 100644 blob 5280a24 __main__.py
 100644 blob 16a5c7d characters.py
                                                           94
 100644 blob b923f87 main.py
 040000 tree c2ec465 tests
                                                           -{G♦:
$ git cat-file 99f30bc -t
commit
    $ git cat-file 16a5c7d -p
    CHARS = {
          "oca": r'''\
    [... Content of the file at commit 99f30bc ...]
```



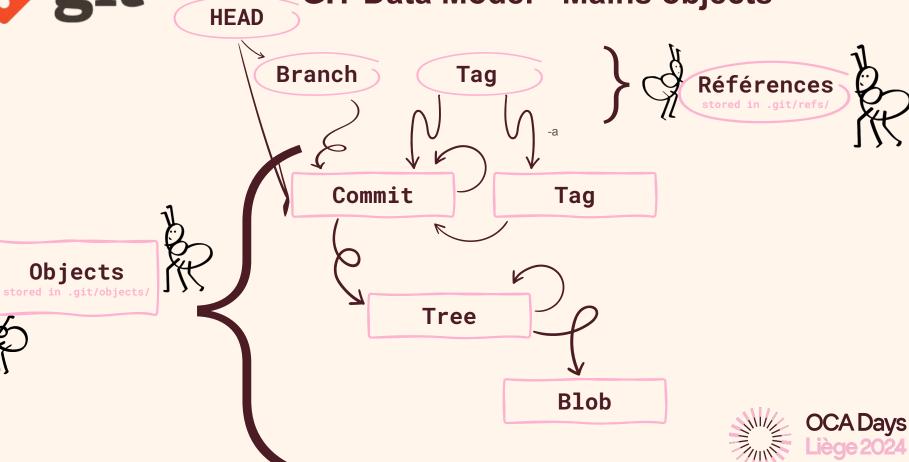
GIT Data Model - Mains objects





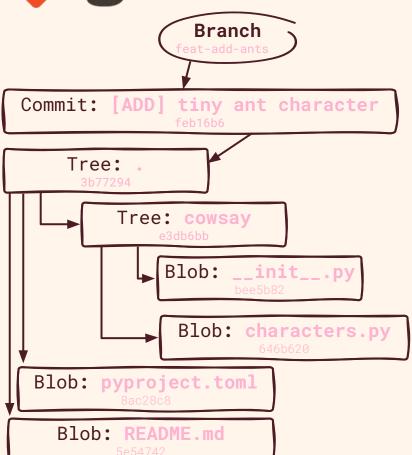
Objects

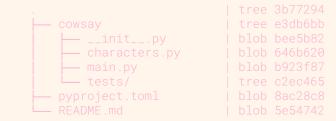
GIT Data Model - Mains objects





Snapshot management

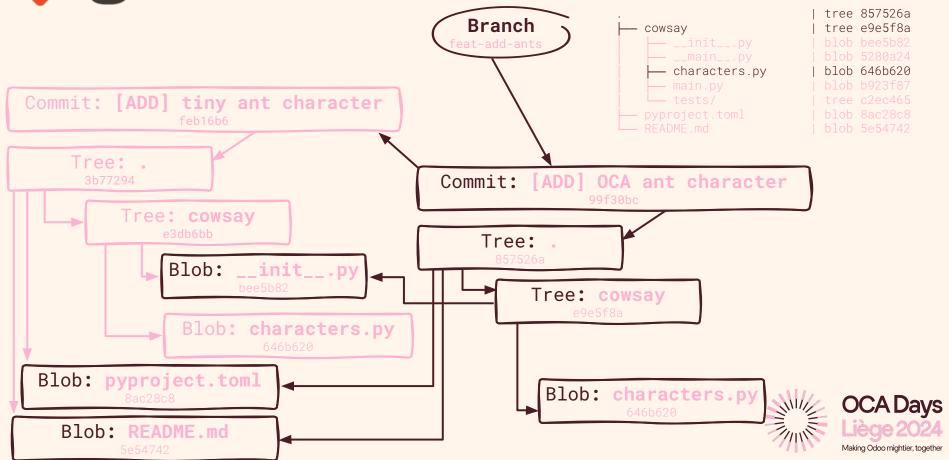








Snapshot management





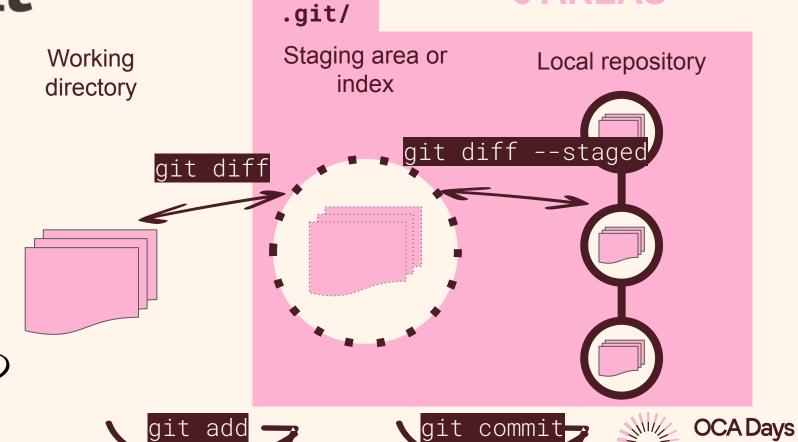
git in practice

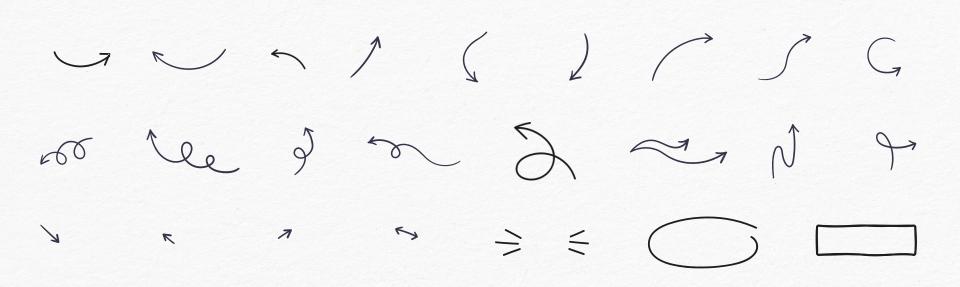




3 AREAS

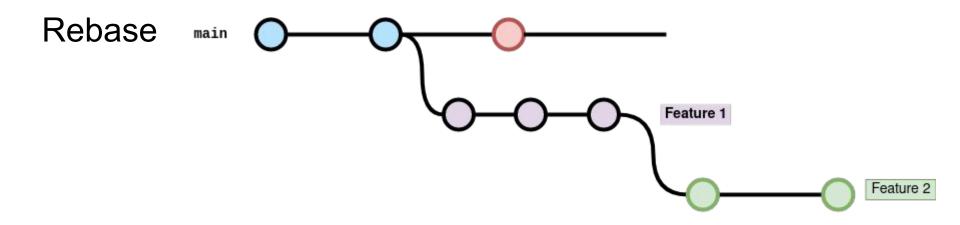
Making Odoo mightier, together

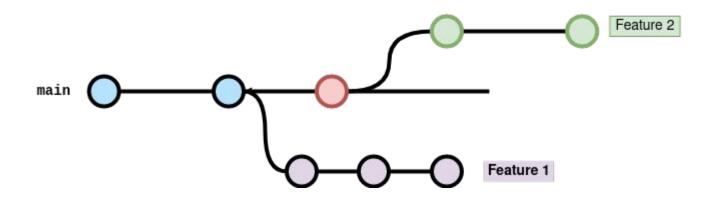






git rebase: Rebase, re-works, re...







git reset<mark>:-_-</mark>



git reflog: reference to recent commits



git bisect: finding the culprit in your code!



Thanks



Any questions?



Thank you to our Event Sponsors





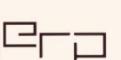












1karizma

Diamond Sponsors