Section 10 – Undoing changes & Time Traveling

What Matters?

* Critical:
  + Checking Out Commits
  + “Escaping” Detached HEAD
* Important:
  + Discarding changes with checkout
  + Git Restore
  + Git Reset
  + Git Revert

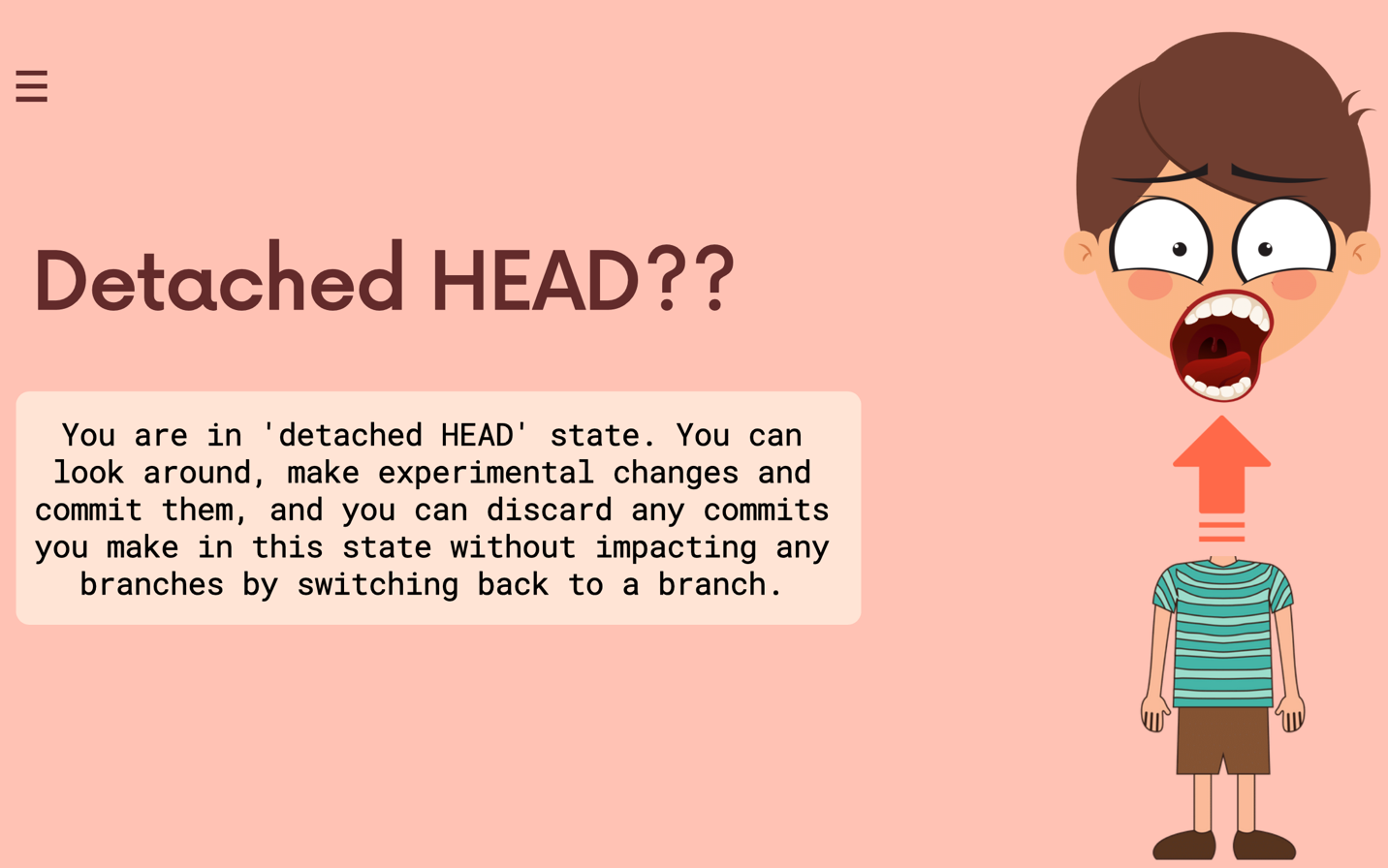
Checking Out Old CommitsText

Description automatically generated with medium confidenceGraphical user interface, application

Description automatically generated

**git log --oneline** cmd to view commit hashes.

* + Need first 7 digits

Detached HEAD???

Chart, bubble chart

Description automatically generated

Chart, diagram

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generatedRe-attaching detached HEAD

git switch master takes you too previous HEAD position

Diagram

Description automatically generated

Referencing Commits Relative to HEADGraphical user interface, application

Description automatically generated

Discarding Changes with GIT CheckoutGraphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

Un-Modifying with git restore Graphical user interface, application

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application

Description automatically generated

Un-stagging changes with Git Restore Graphical user interface, application

Description automatically generated

Undoing commits with Git ResetGraphical user interface, text, application

Description automatically generated

When we reset it moves the commit back into the working directory.

Graphical user interface, application

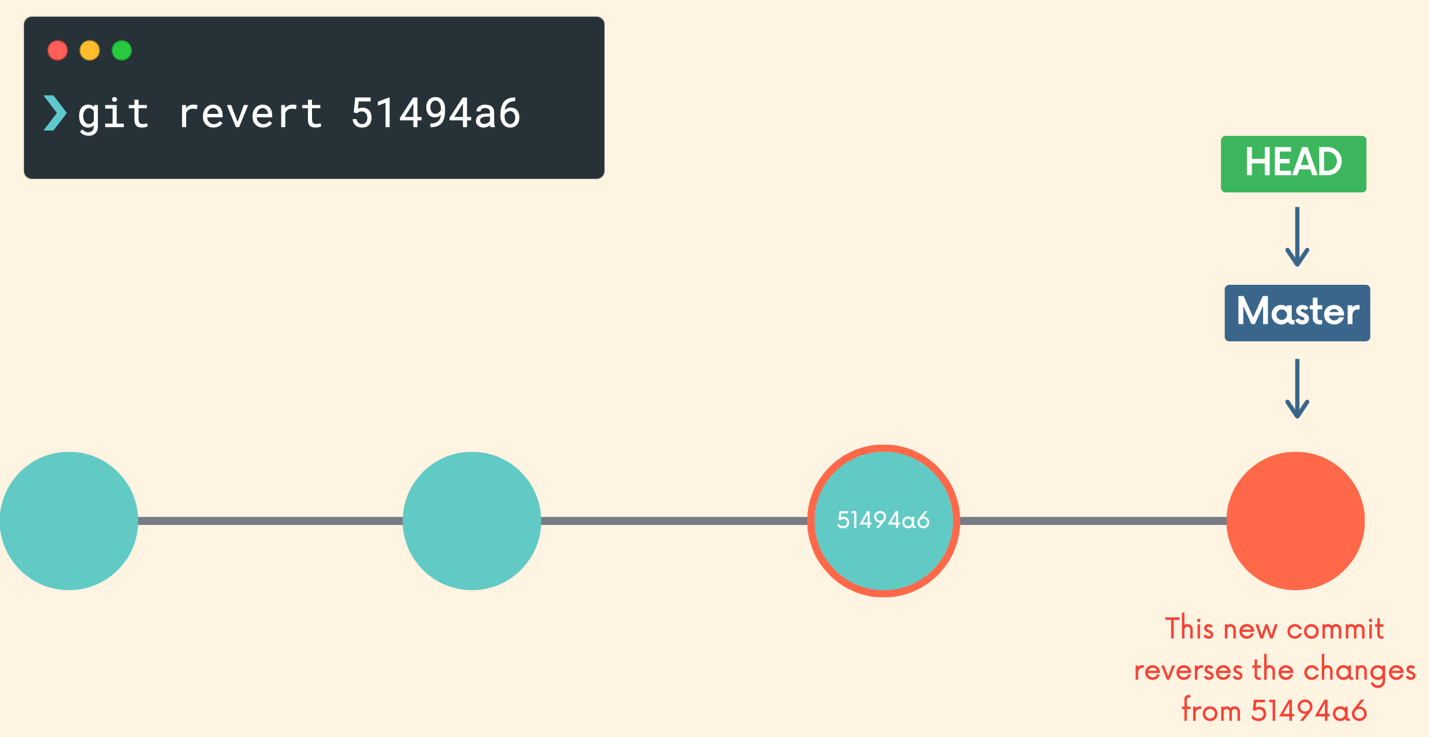
Description automatically generated

Removes from commit area & working directory

Reverting commits with Git RevertGraphical user interface, application

Description automatically generated

Which one should I useChart, bubble chart

Description automatically generated with medium confidence

If you want to reverse commits that other people already have on their machines, use revert

If you want to reverse commits that you haven’t shared with others, use reset

* No one will ever know.