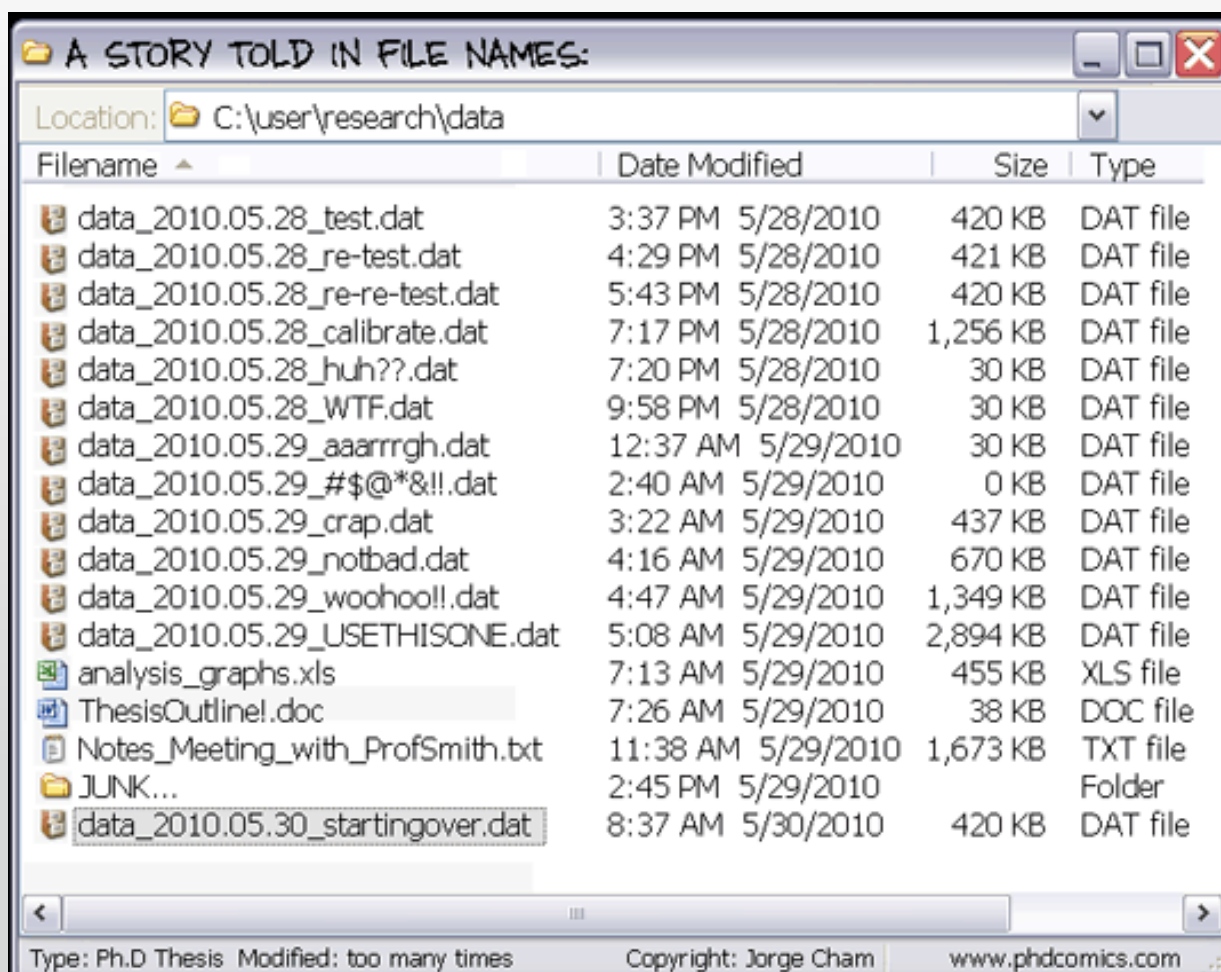




git

tracking changes in a
collaborative network

Ali R. Vahdati



1. What did I do?

- Make all steps in data downloading, cleaning, and manipulation clear, or even better, automatic.
- Make appropriate directory structures

2. Why did I do it?

- Literate programming

3. How did I set up everything at the time of the analysis?

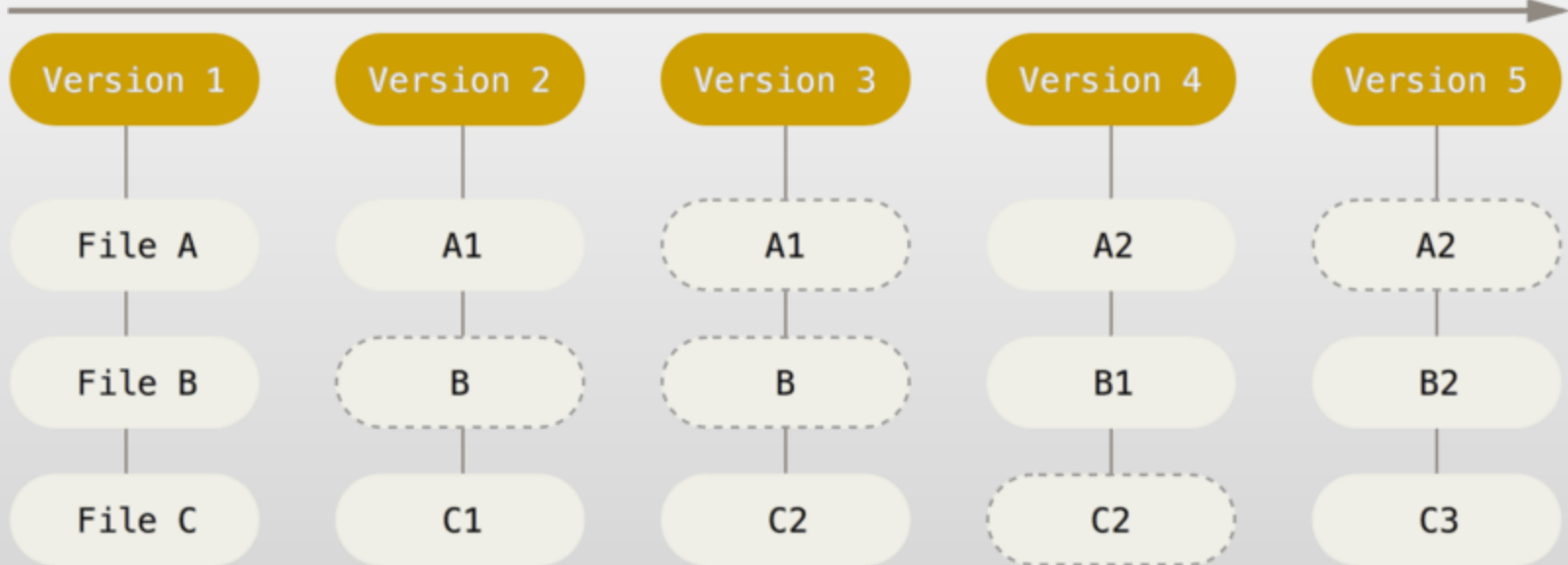
- Virtual environments: e.g. Docker.

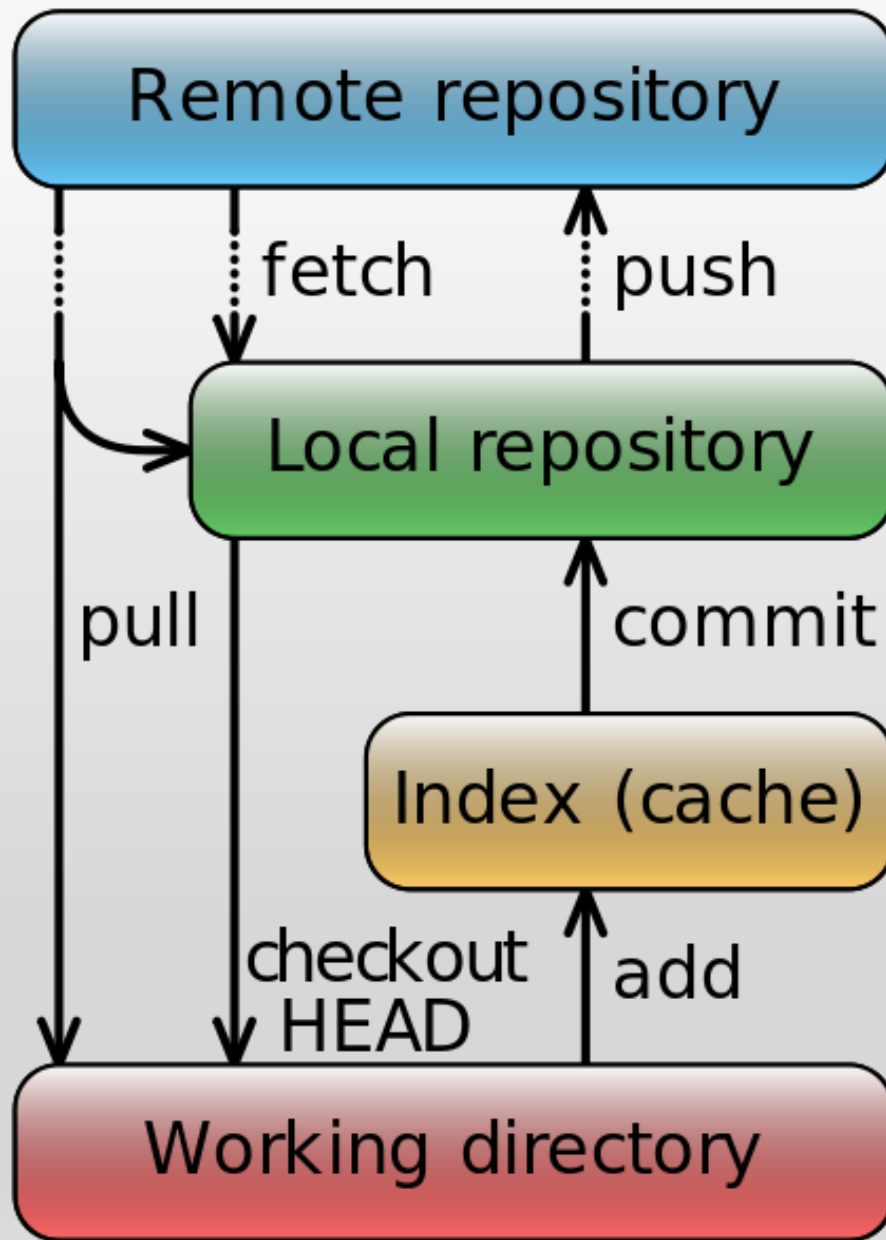
4. When did I make changes, and what were they?

5. Who needs to access it, and how can I get it to them?

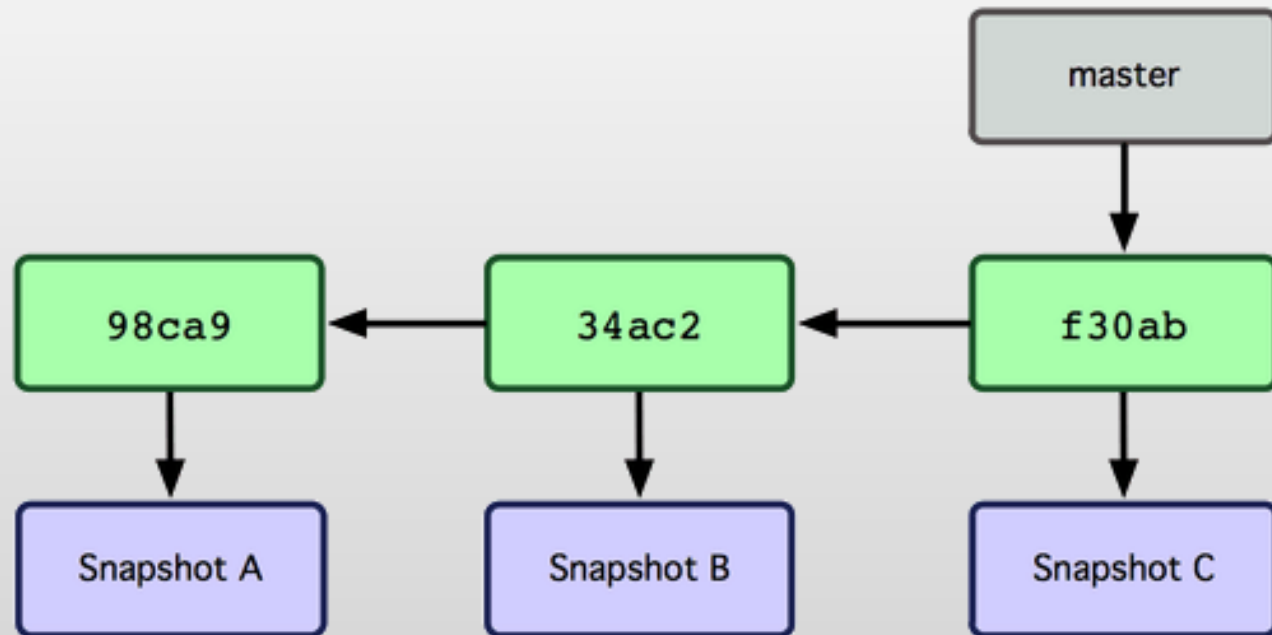
- You might pursue several paths that lead nowhere
- Whenever you submit or publish a paper, you can set a label on the corresponding code version so that you can easily recreate it.
- Automatically merge contributions
- Who made which changes

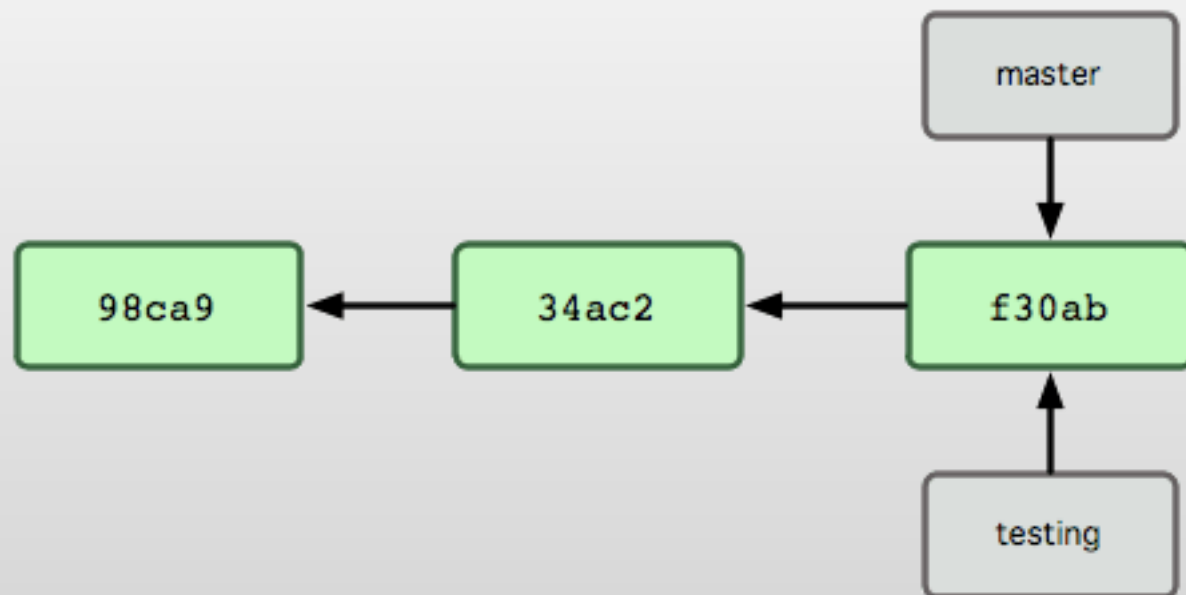
Checkins Over Time

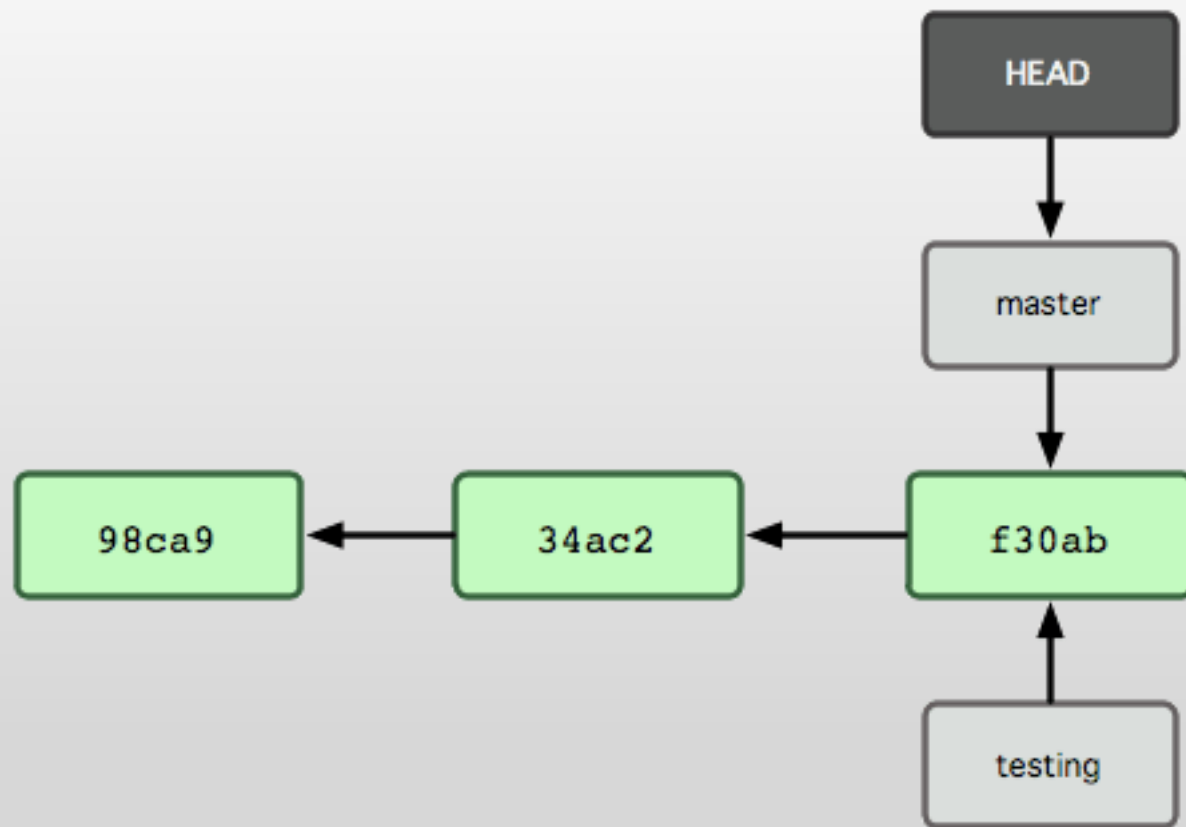


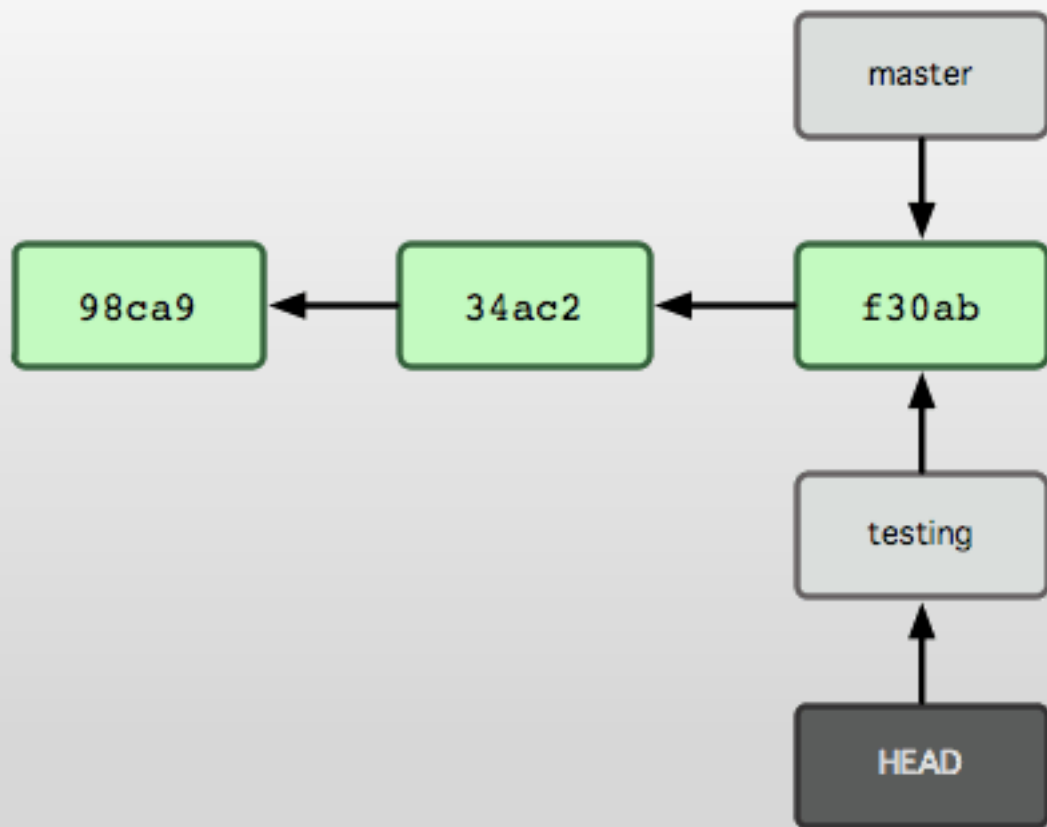


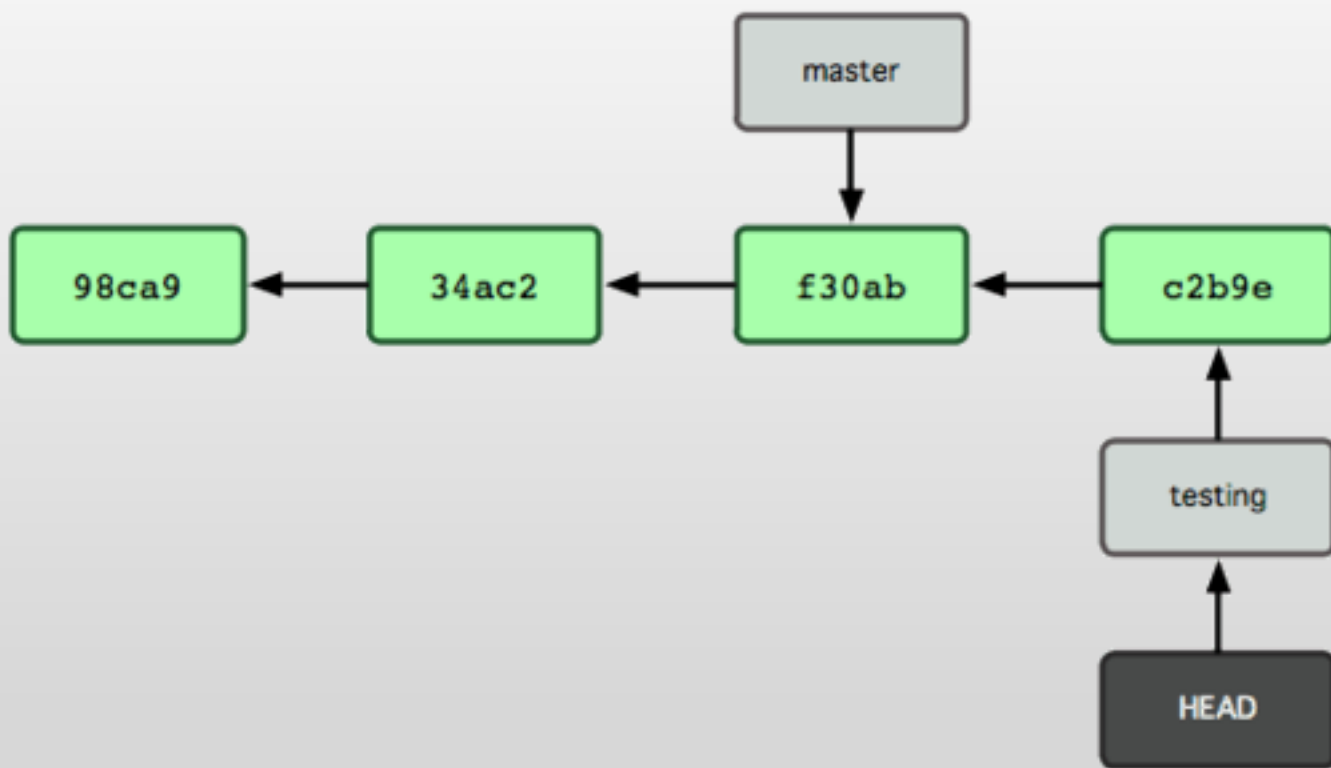
Branches

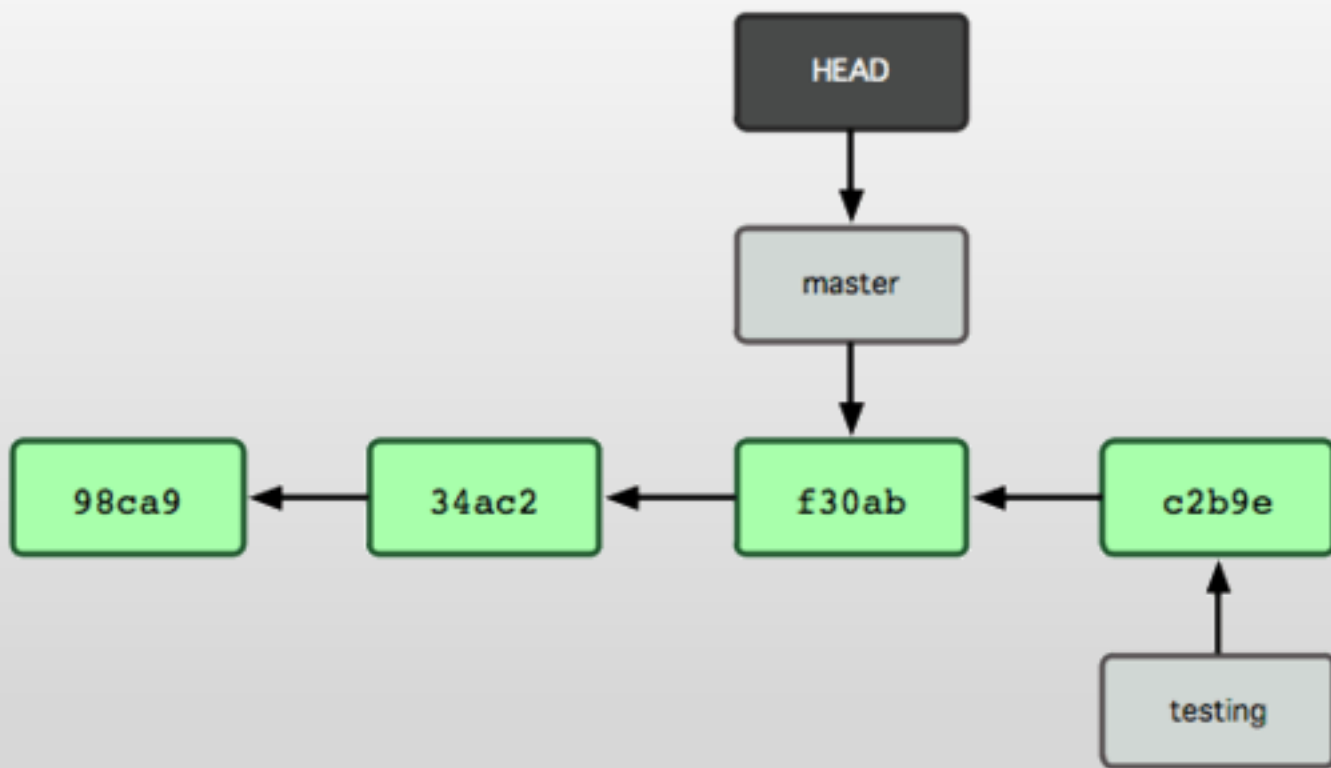


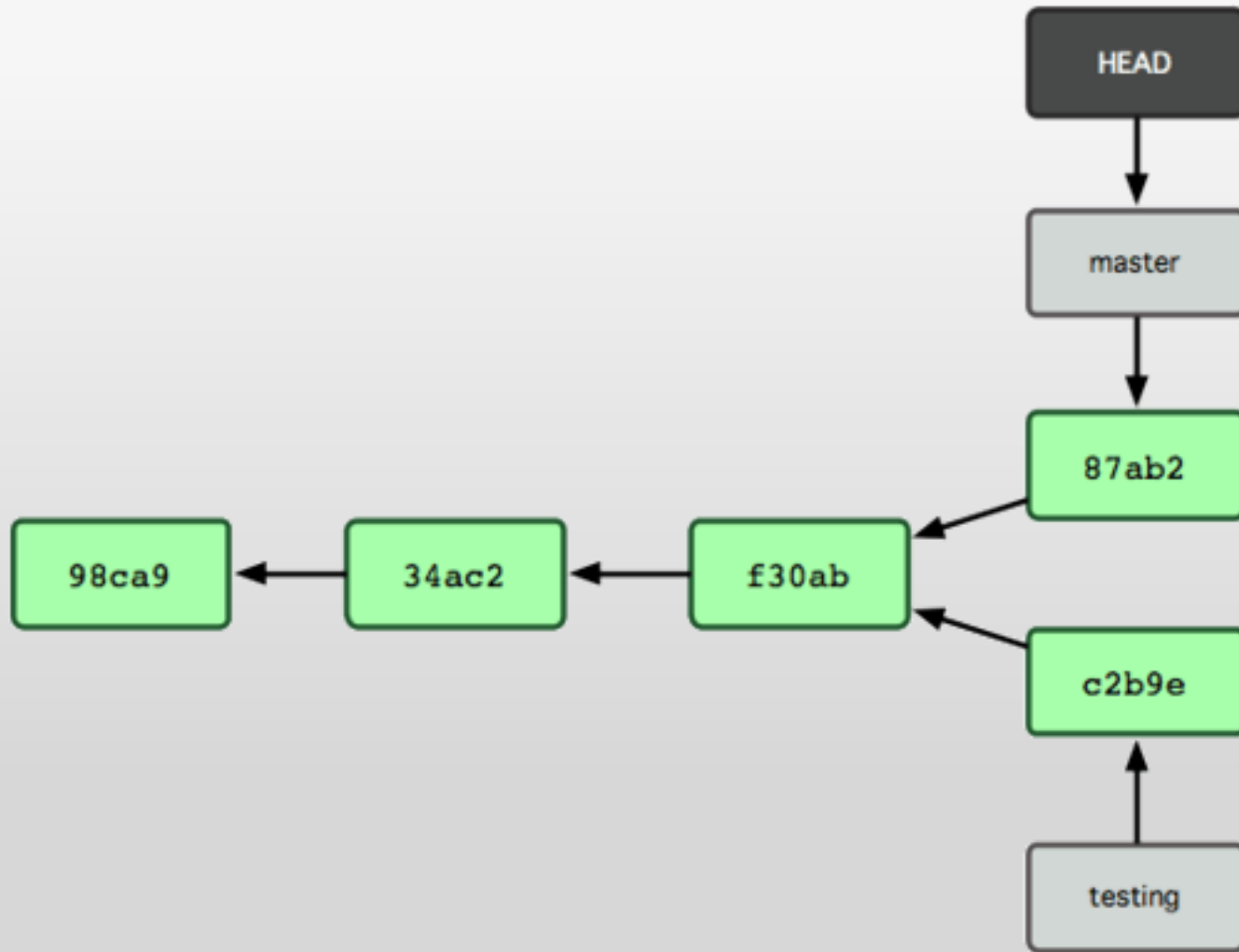




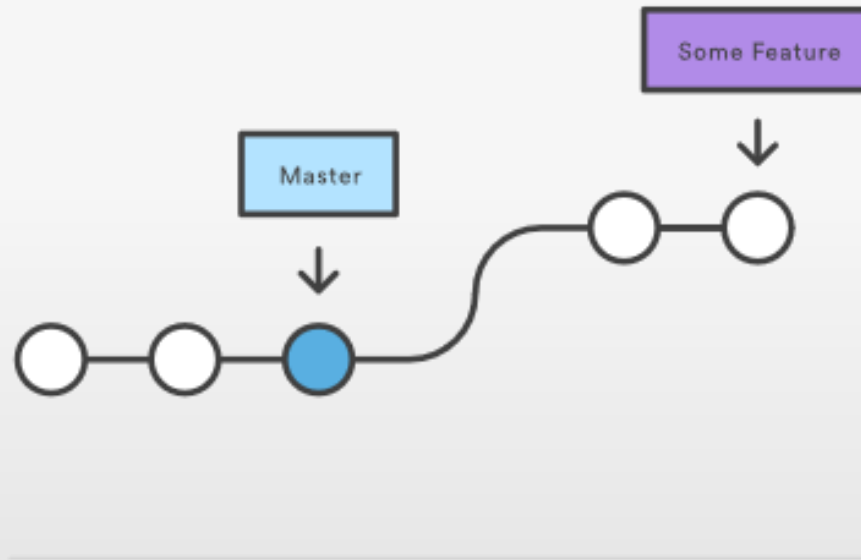




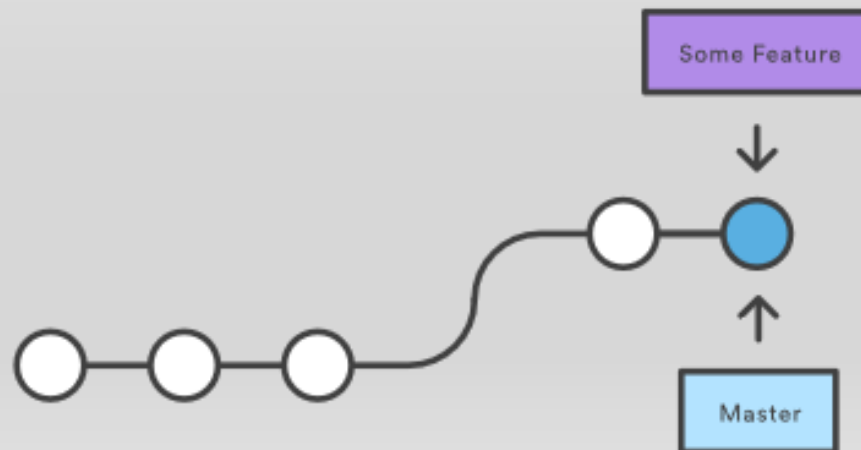




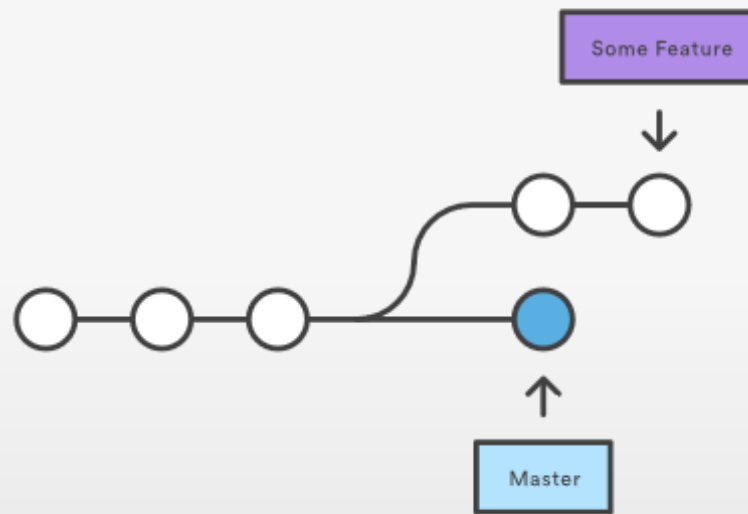
Before merging



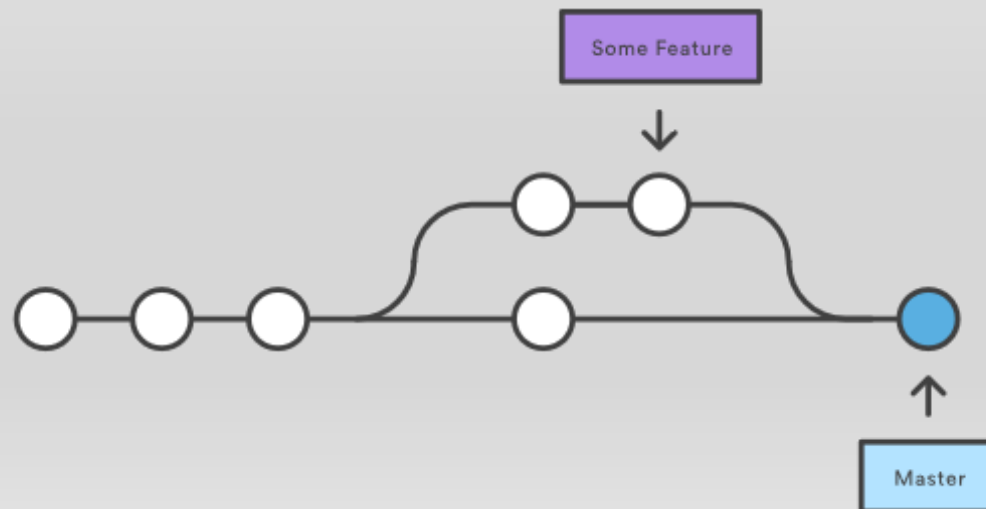
After a fast-forward merge



Before merging



After a 3-way merge



Hands-on tutorial