

# Introduction to Versionning

Based on Sébastien Mosser's course

06/09/2016

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# Qui êtes-vous?

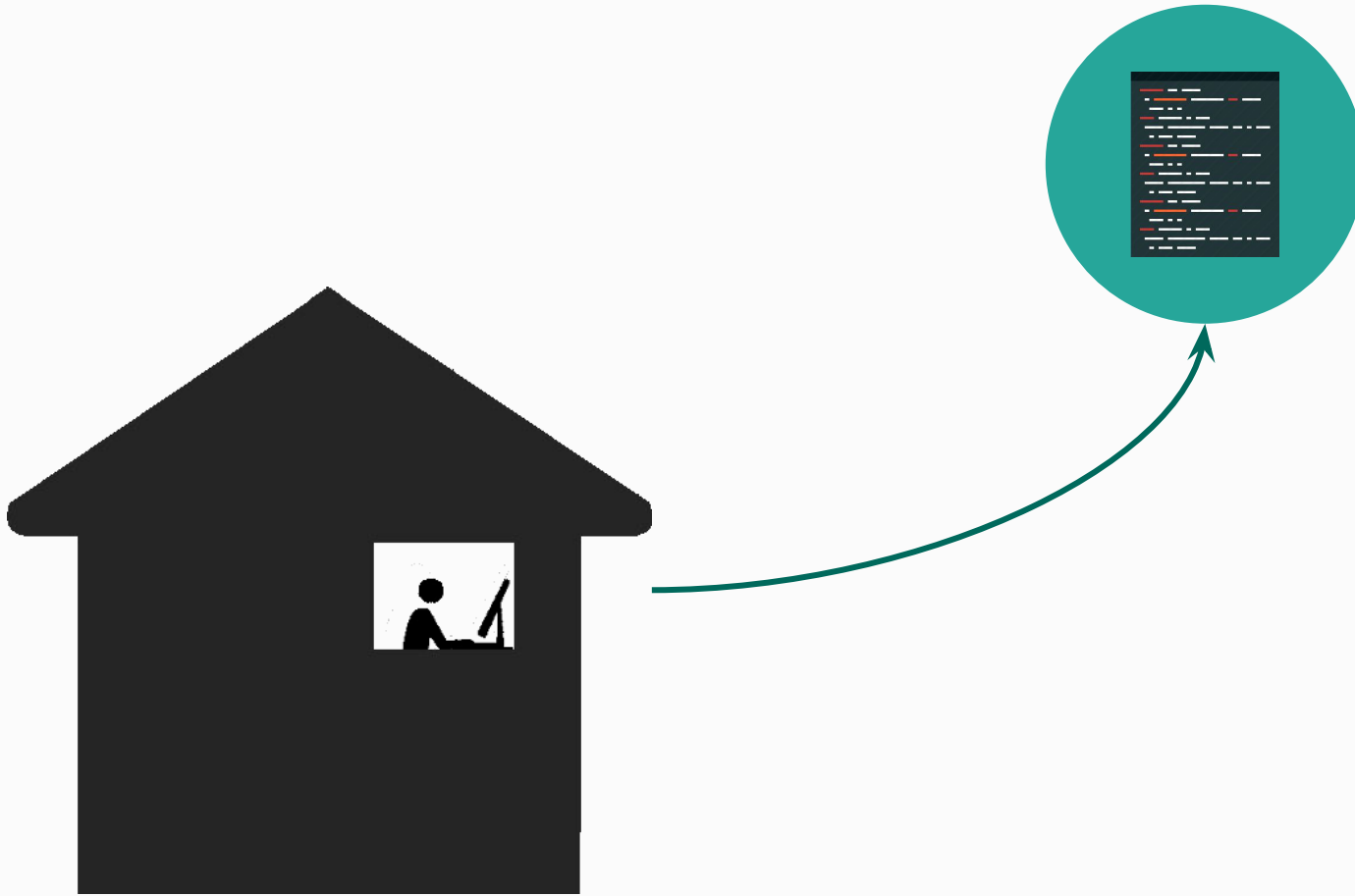


[https://goo.gl/forms/](https://goo.gl/forms/4u0kaMxkFGgEH0k02)

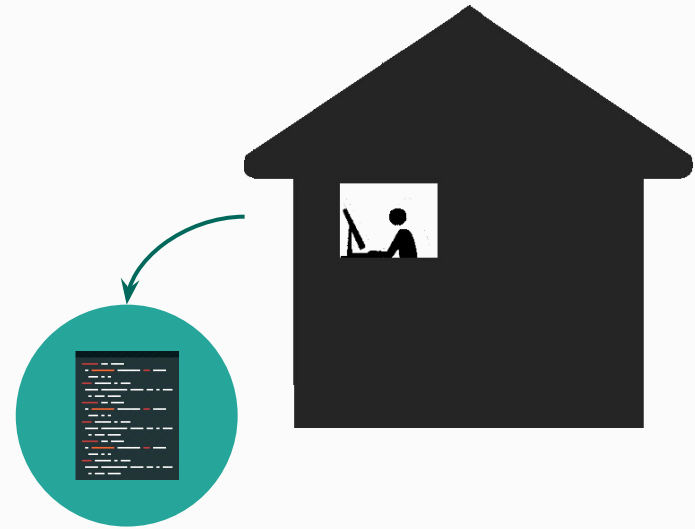
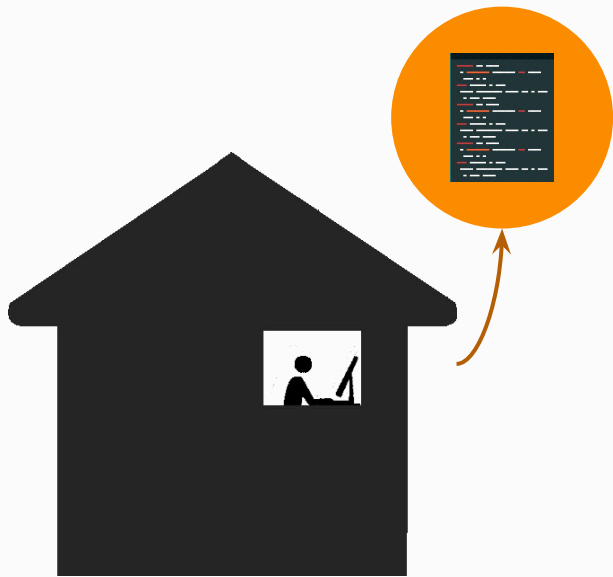
**4u0kaMxkFGgEH0k02**

Discuss !

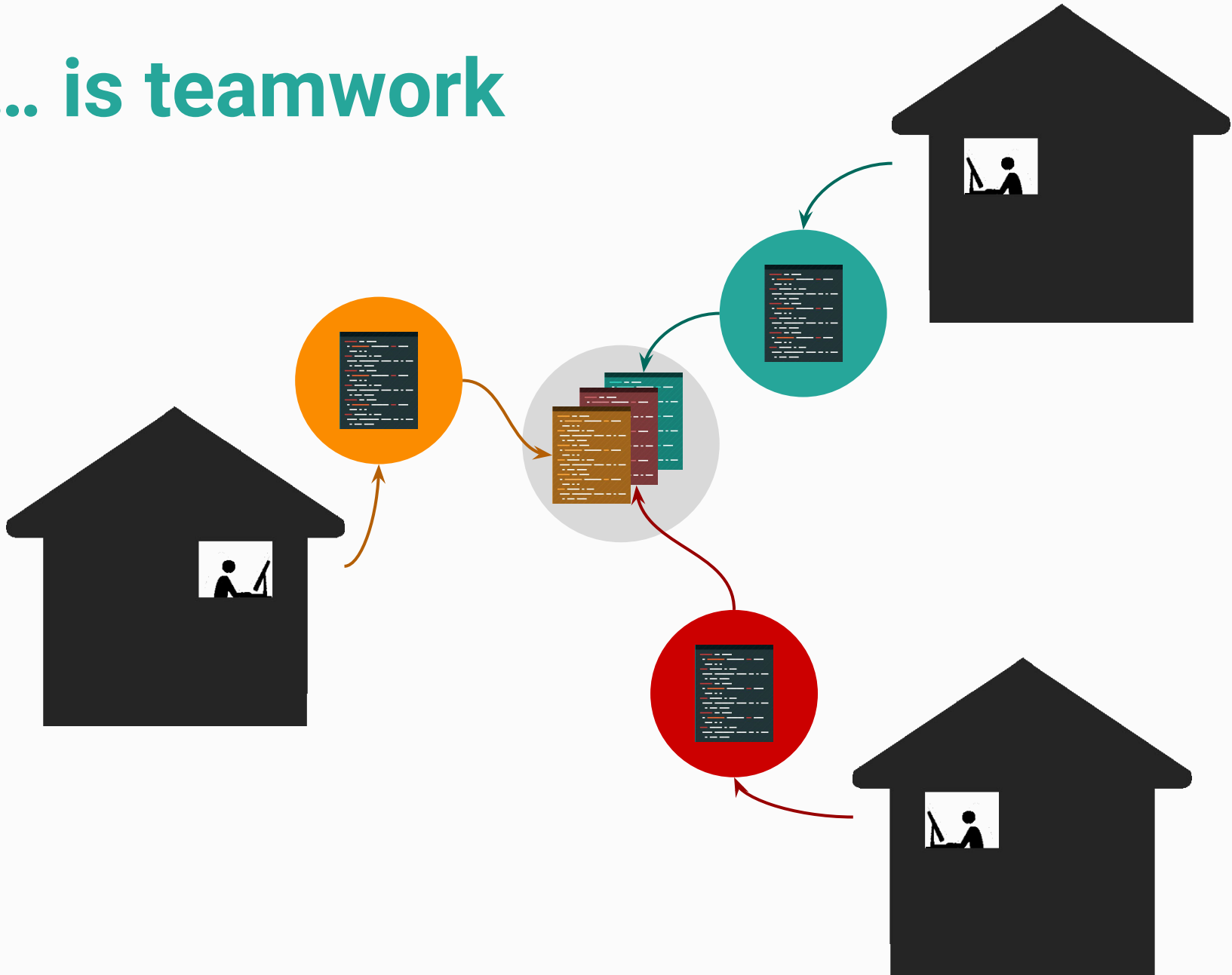
# Software development...



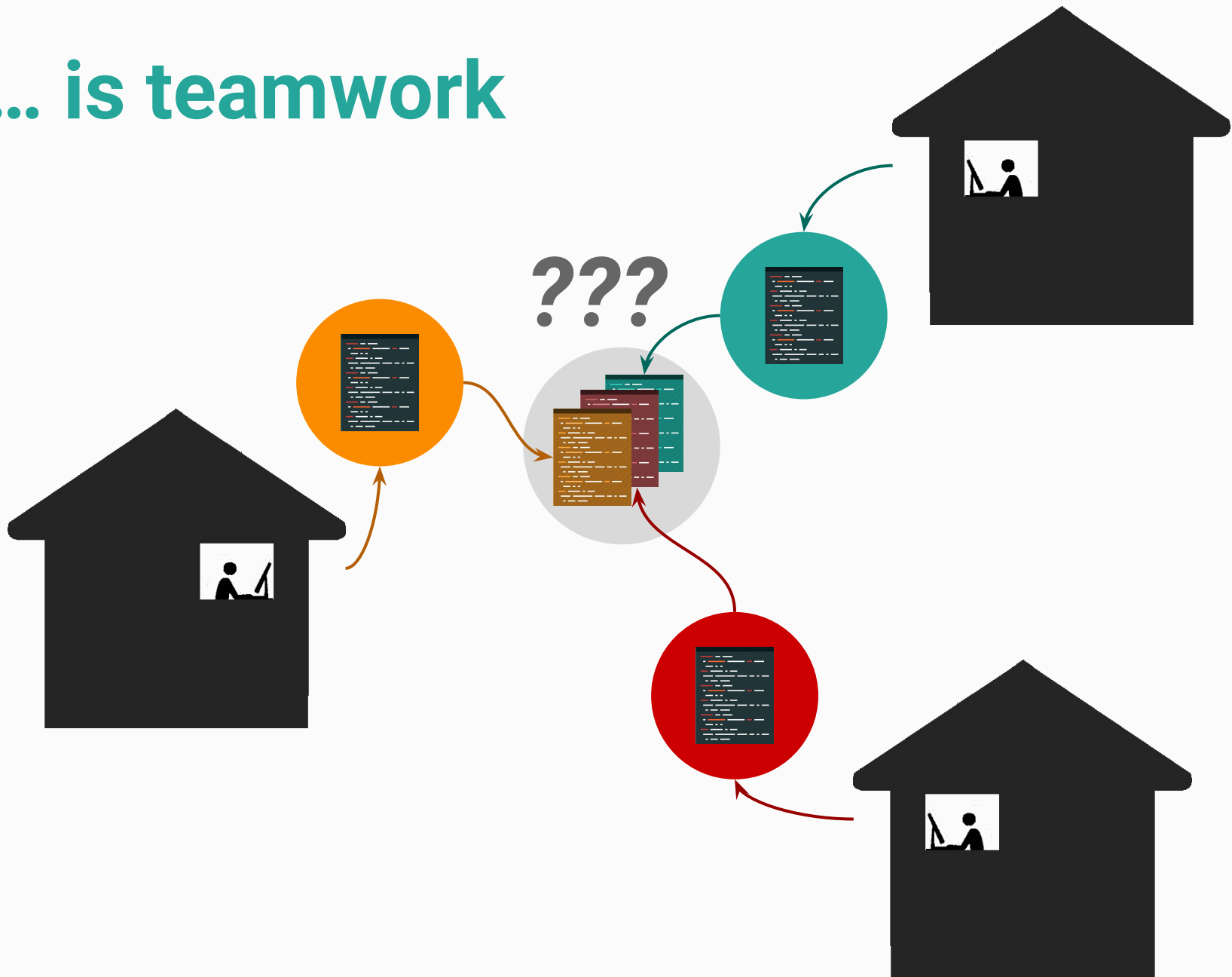
# ... is teamwork



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# Sharing What?

**NOPE**

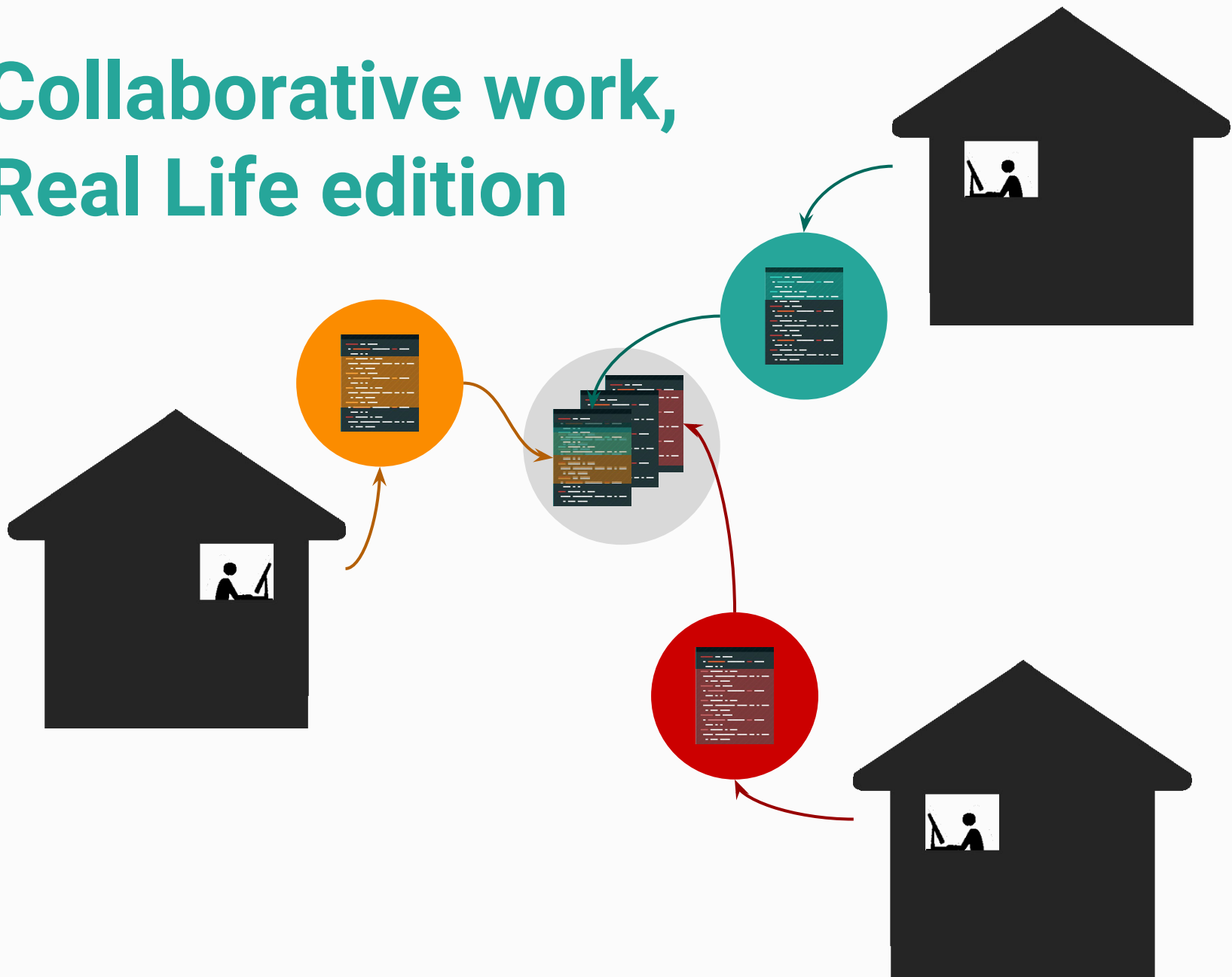
~~Code~~





# Changes (in code)

# Collaborative work, Real Life edition



**BUG !**

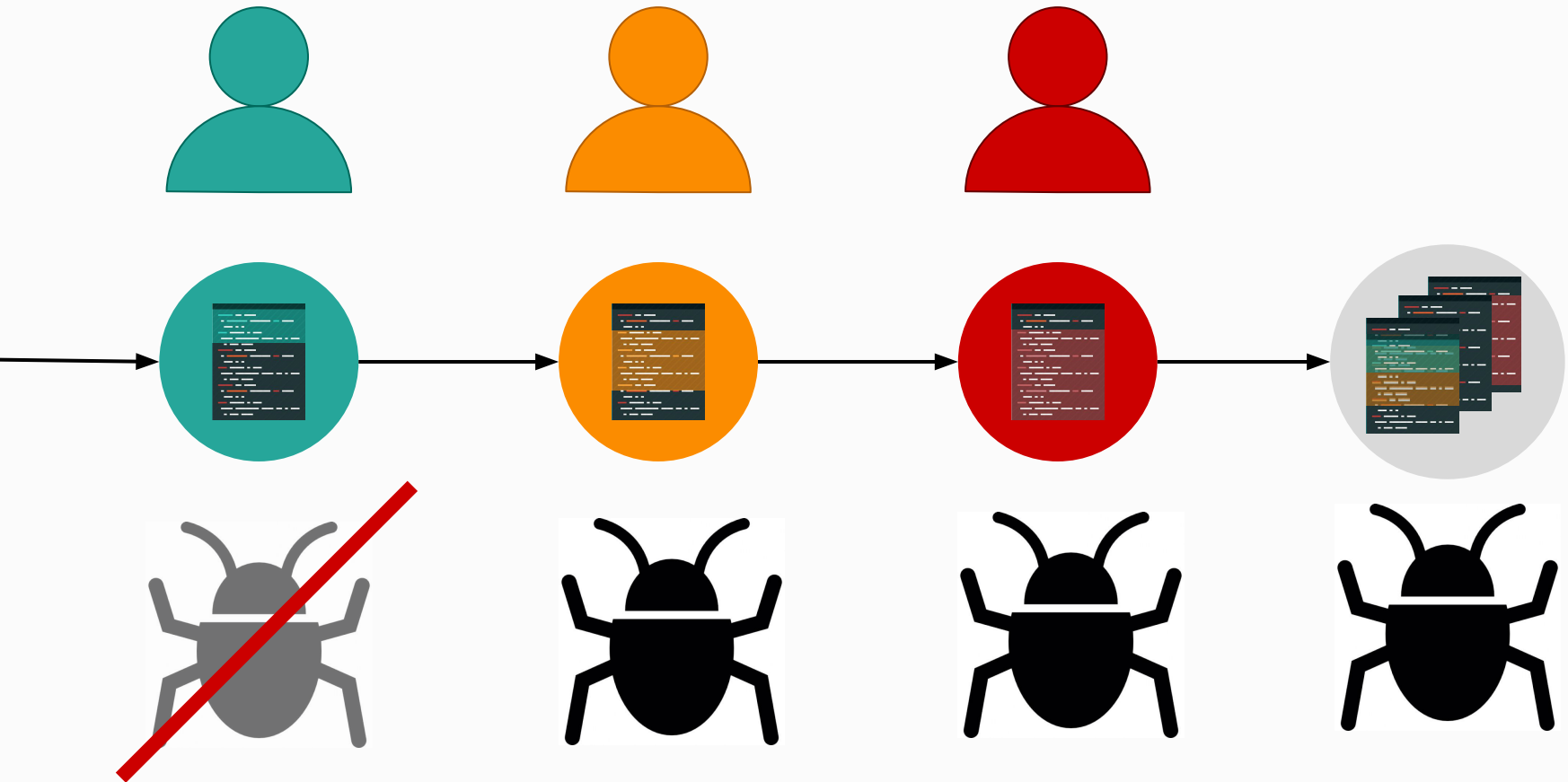


When did it happen?

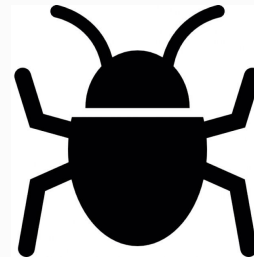
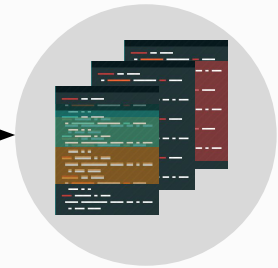
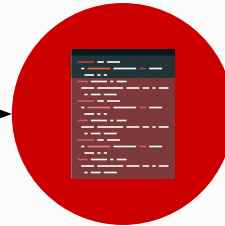
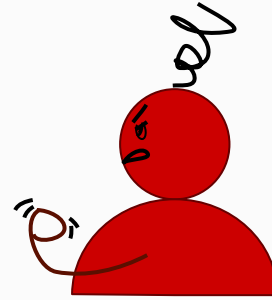
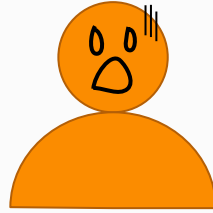
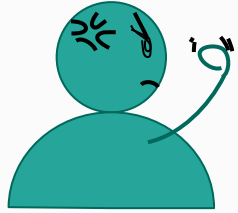
Where is it coming from?



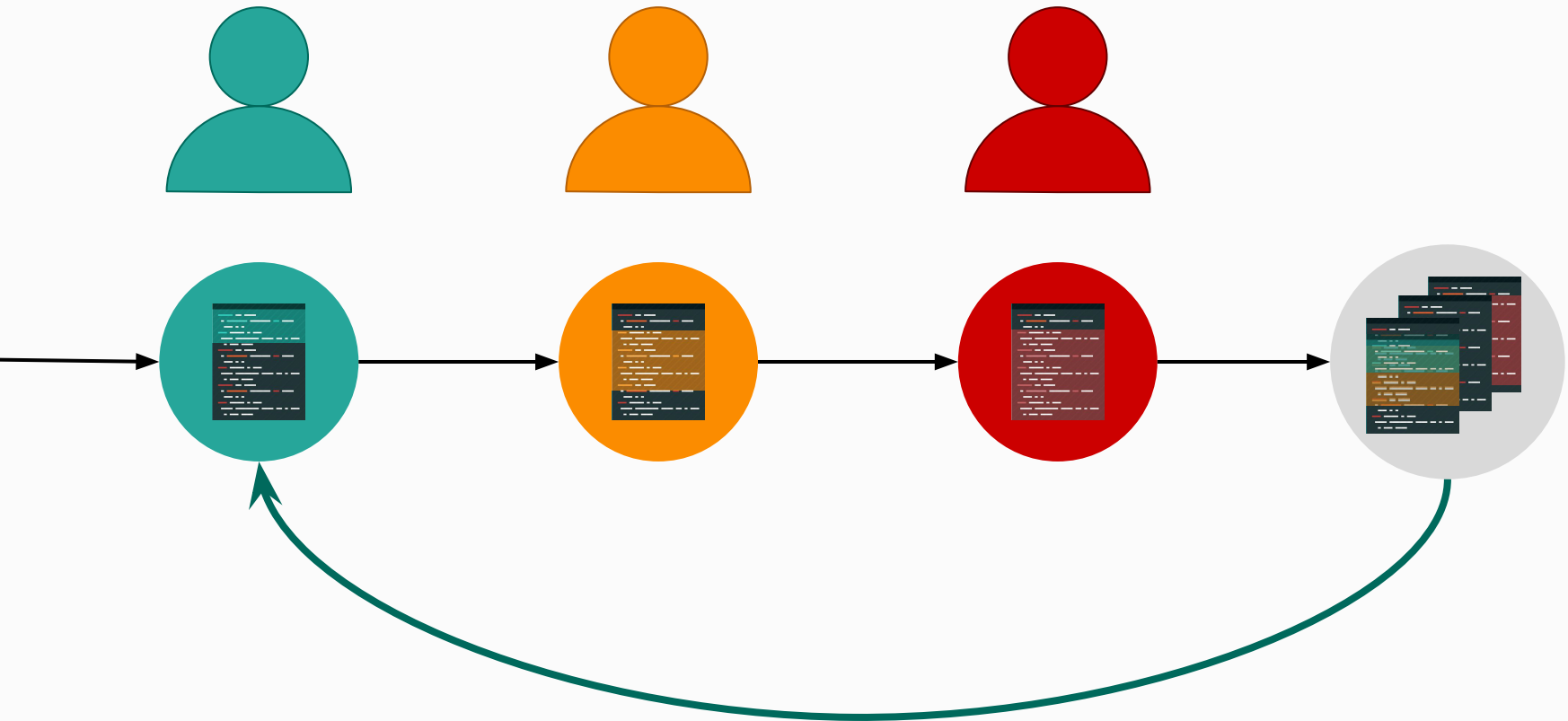
# TRACE changes



# TRACE changes



# ROLLBACK changes



# And yes... SHARE changes

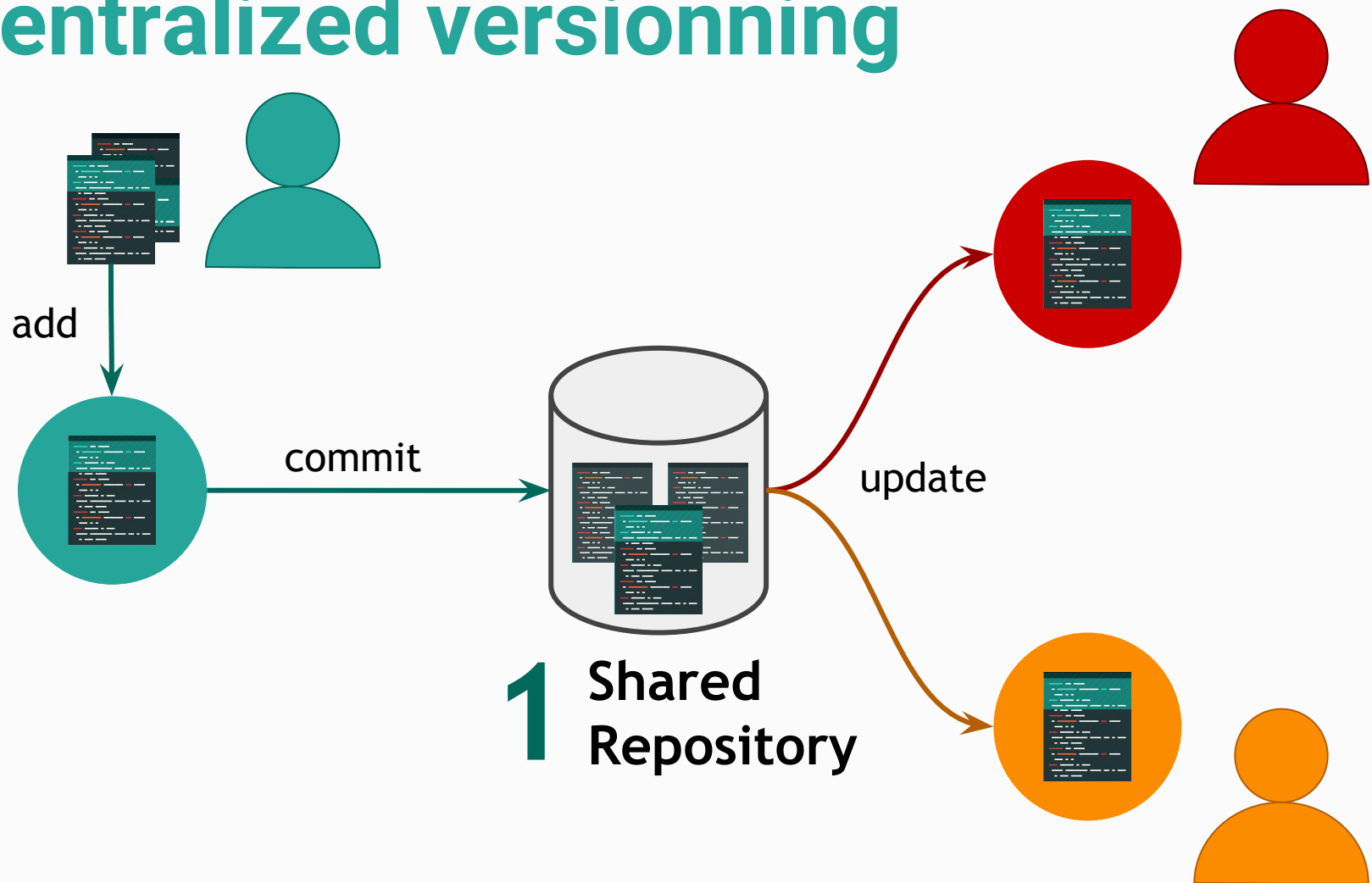


(source: biz3.0)

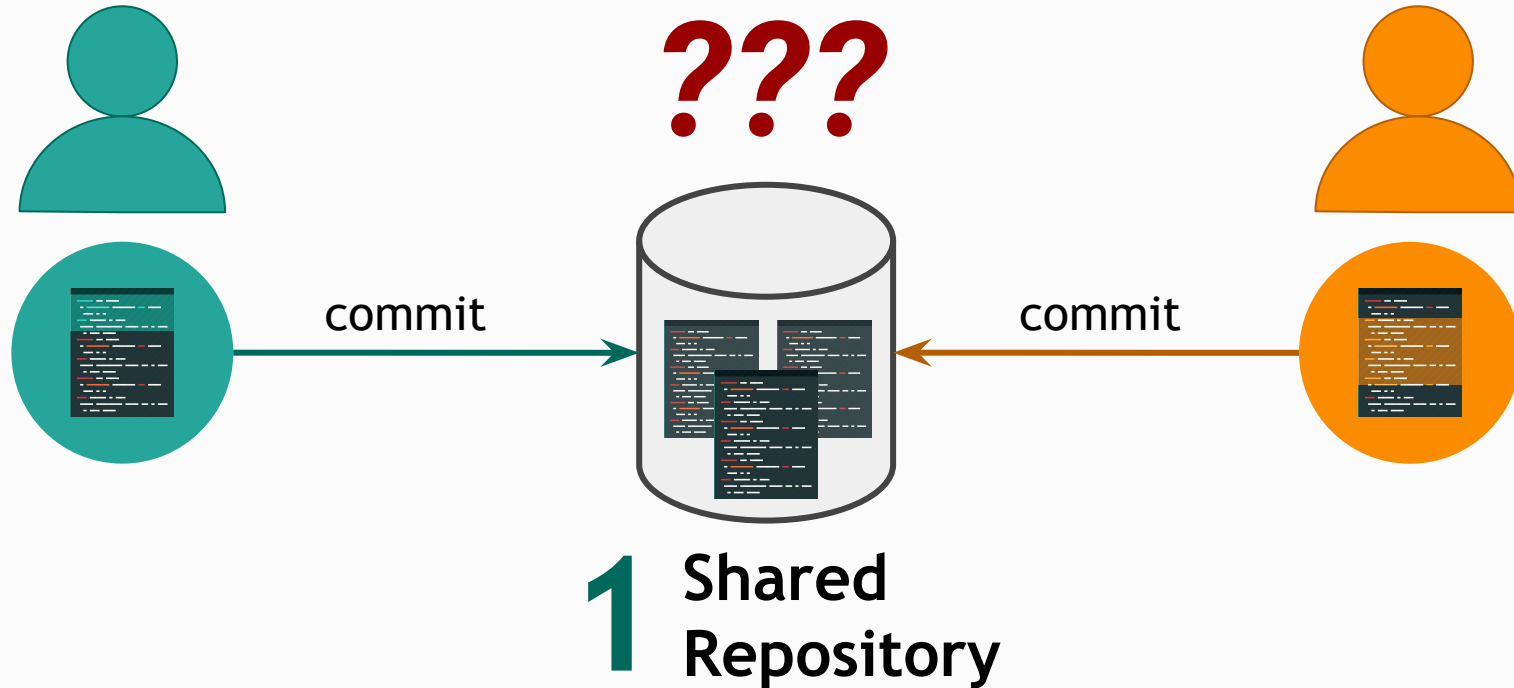
# Centralized versionning



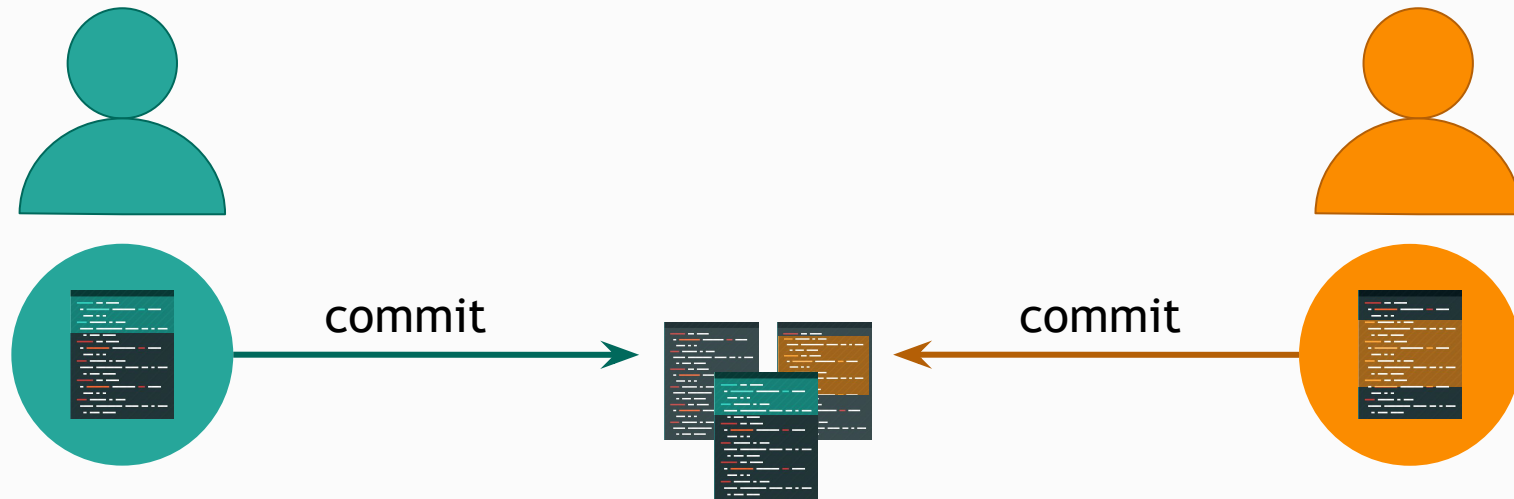
# Centralized versionning



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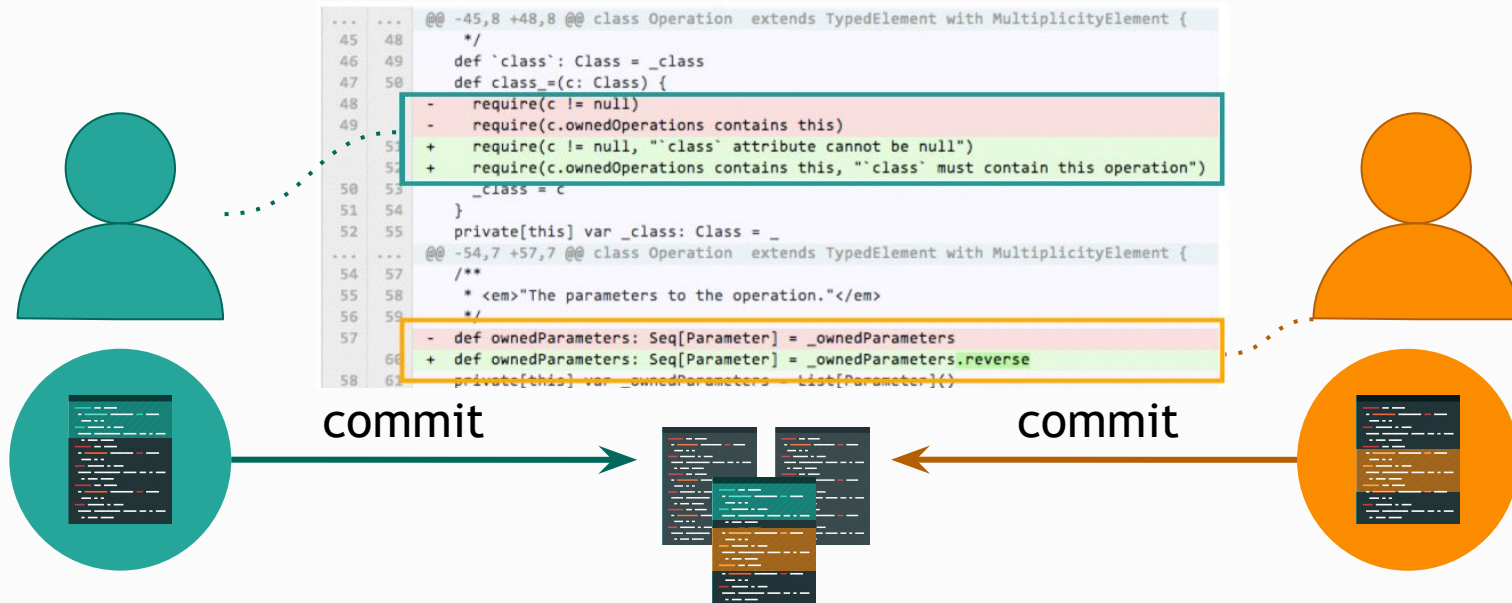
# Handling conflicts



Different files

=> No problem

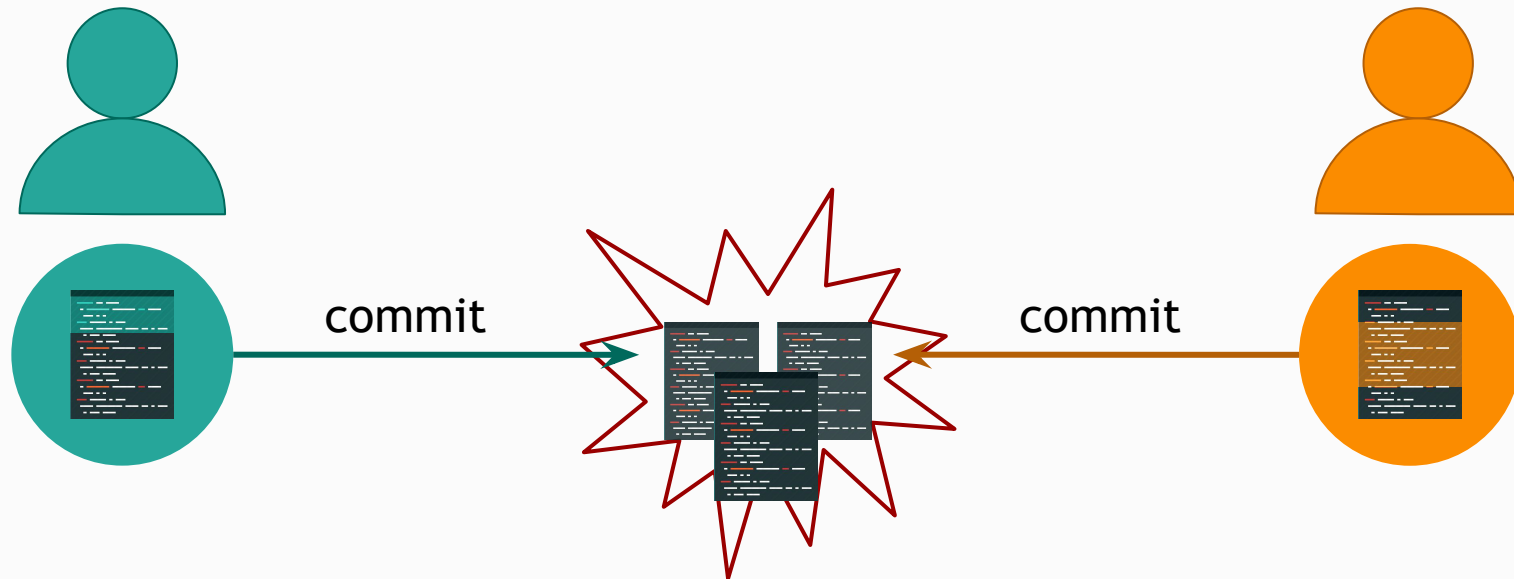
# Handling conflicts



Different parts of the same file

⇒ Automatic merge

# Handling conflicts

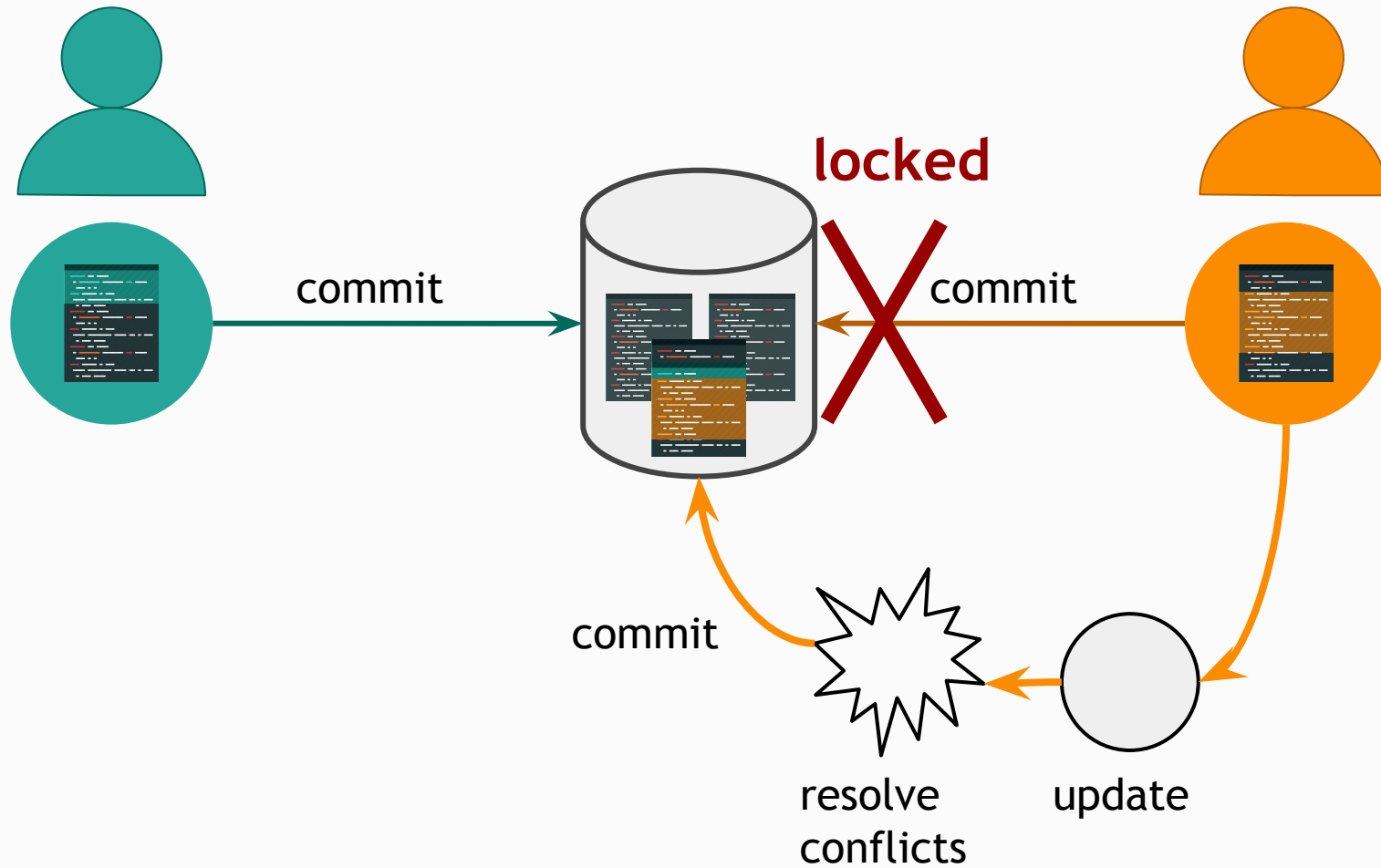


Same part of the same file

=> **Conflict**

Back to...

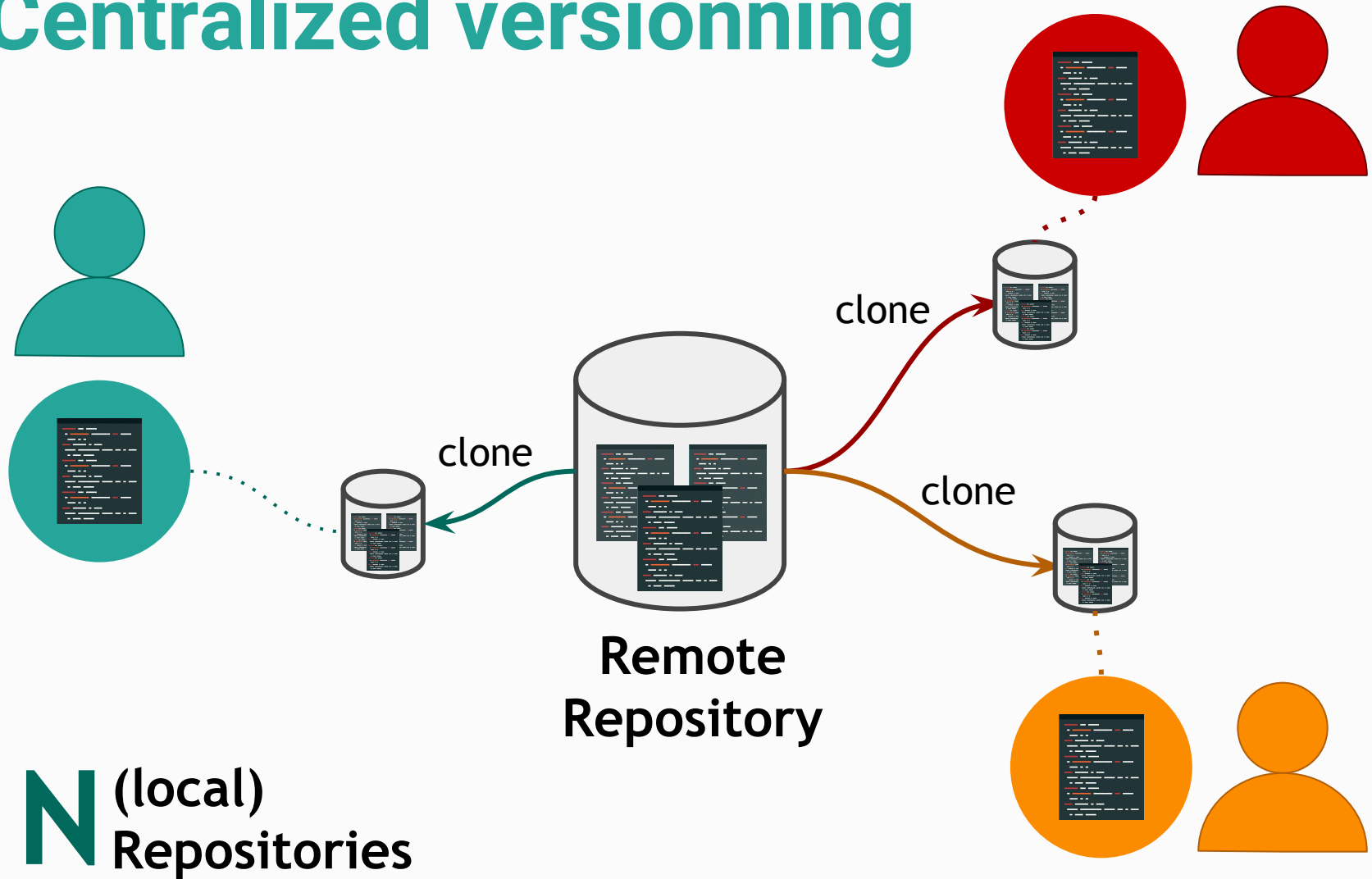
# Centralized versionning



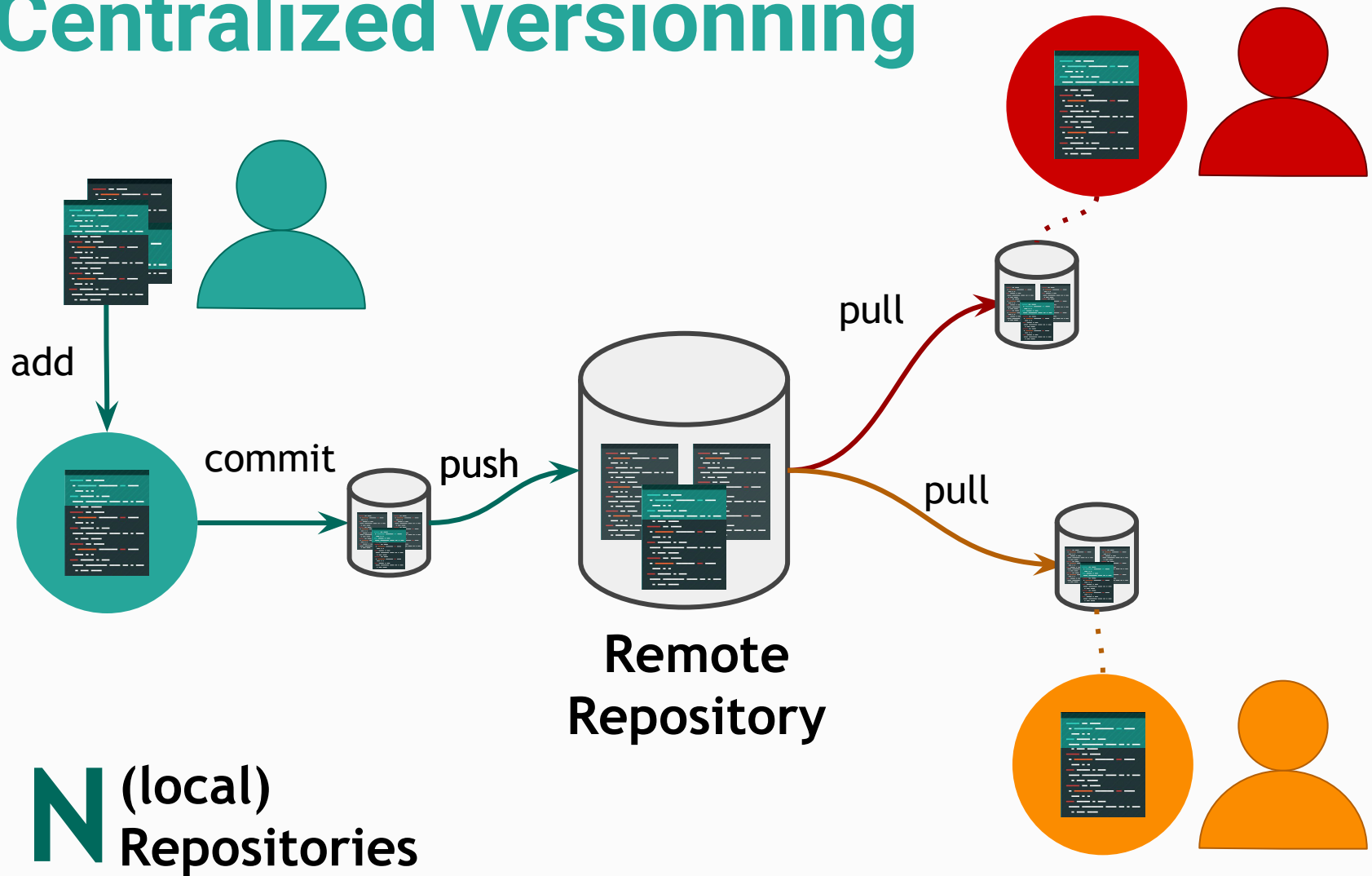
# Distributed versionning



# Centralized versionning

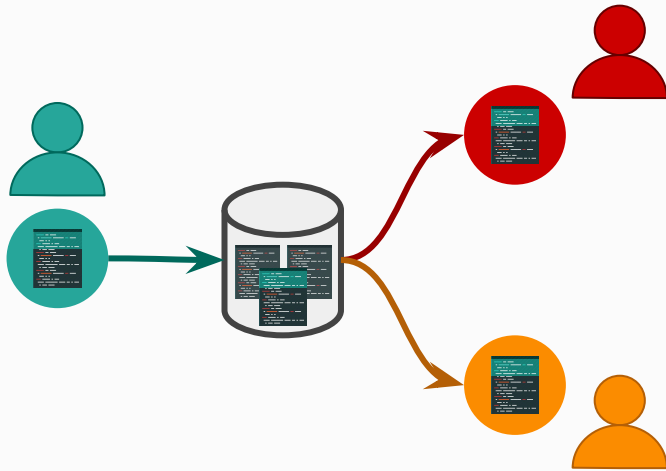


# Centralized versionning



# Sum-up

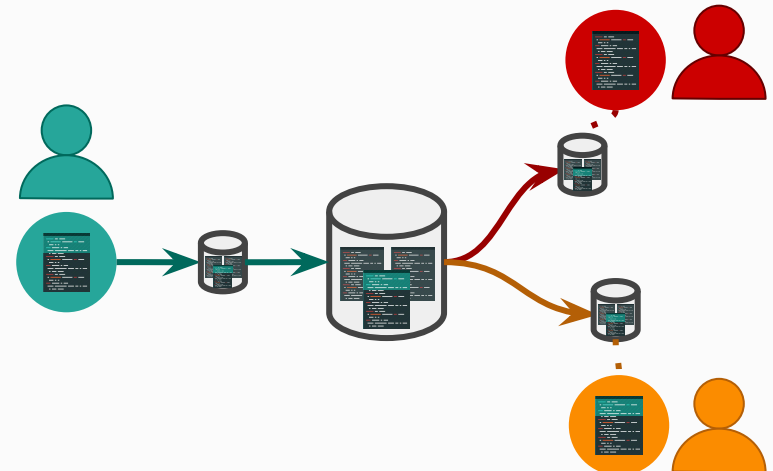
# Centralized vs Distributed



add -> commit

1 Repository

> CVS, SVN, ...



add -> commit -> **push**

**N** repositories : 1 per user

Offline work, branches, and more...

> Git, Mercurial, ...

For the project?



We go for  
**git**

