Storing a few versions of a 5GB file in a data science project

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SciPy 2019

About the Speaker



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Web Development, Version Control System, Open Source <3



Selected for Google Summer of Code 2019



Part-time Collaborator

DVC (Data Version Control)



Built on: Python

Uses: Versioning a data science project

Speciality: Open-Source, Responsive community

Stargazers: 4K + (GitHub)

Contributing to DVC

#1963: Add `dvc version` command +62 -0

usage: dvc version [-h] [-q | -v]

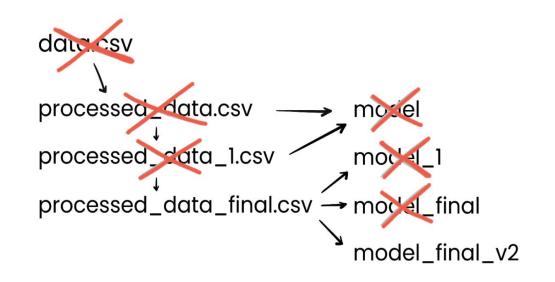
DVC Version: 0.70.0 Python Version: 3.6.8

Meet some data scientists

"Too many tools for software development but none for data science :("



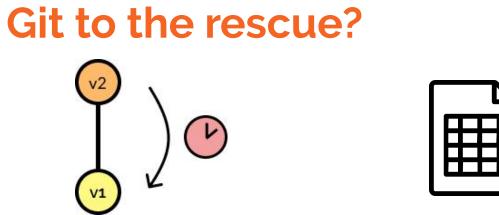
Versioning by copying



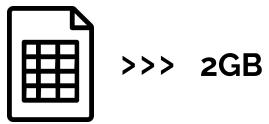
@faviovaz

Are we similar?





Increased checkout time



Allowance: 2GB/file



LFS is supported on lesser platforms

Summarising the problems

Versioning large files	?
Storing and sharing large files	?
Increased time of executing version control commands (eg. git checkout)	?

Initializing DVC

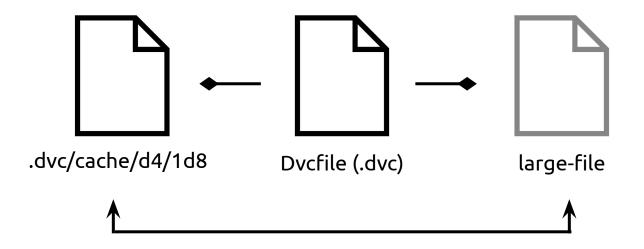
> Installation

> Initialize

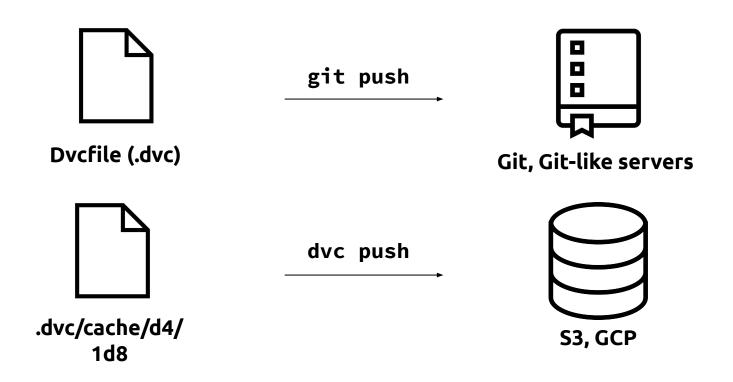
\$ dvc init

Versioning a 5GB file

\$ dvc add large-file



Sharing the file with others



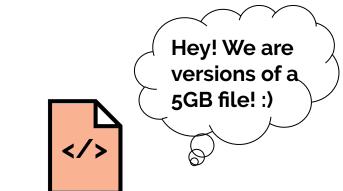
What happens to 'large-file'?

Git to large-file:



Summarising the solutions

Versioning large files	
Storing and sharing large files	✓
Increased time of executing version control commands (eg. git checkout)	



V3

V٦

V2

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Thank you!

> Questions

Email: aman@iterative.ai Community: dvc.org/chat

> Actions

Visit: dvc.org Star: github.com/iterative/dvc