Version Control System

TalentSprint

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What is a Version Control System?

A software system that records changes to a file or set of files over time so that we can capture, track, and manage the changes to those files.

Goals

- enable people to work simultaneously, not serially.
- changes do not conflict with each other.
- archive every version.

Benefits

- Collaboration

Benefits

- Collaboration
- Change management

Benefits

- Collaboration
- Change management
- Tracking evolution

Benefits

- Collaboration
- Change management
- Tracking evolution
- Branching

Common terms

- Repository

Common terms

- Repository
- Working copy

Common terms

- Repository
- Working copy
- Trunk

Common terms

- Repository
- Working copy
- Trunk
- Revision

Common Operations

- Checkout

Common Operations

- Checkout
- Commit

Common Operations

- Checkout
- Commit
- Update

Common Operations

- Checkout
- Commit
- Update
- Revert

Types of VCS

- Local Version Control Systems
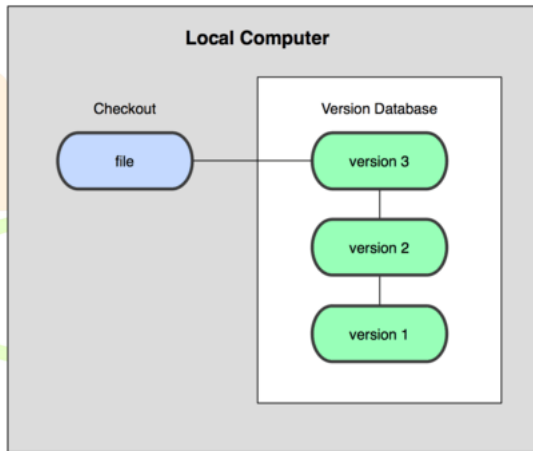 - SCCS (1972), RCS (1982)

Types of VCS

- Local Version Control Systems
  - SCCS (1972), RCS (1982)
- Centralized Version Control Systems
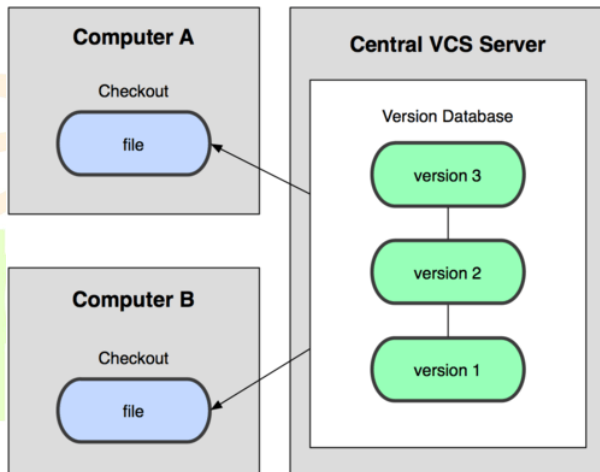 - CVS (1986), SVN (2000)

Types of VCS

- Local Version Control Systems
  - SCCS (1972), RCS (1982)
- Centralized Version Control Systems
  - CVS (1986), SVN (2000)
- Distributed Version Control Systems
  - DCVS (2002), Git (2005), Mercurial (2005)

Local Version Control System

Centralized Version Control System

Distributed Version Control System