

# Subversion

A Practical Introduction

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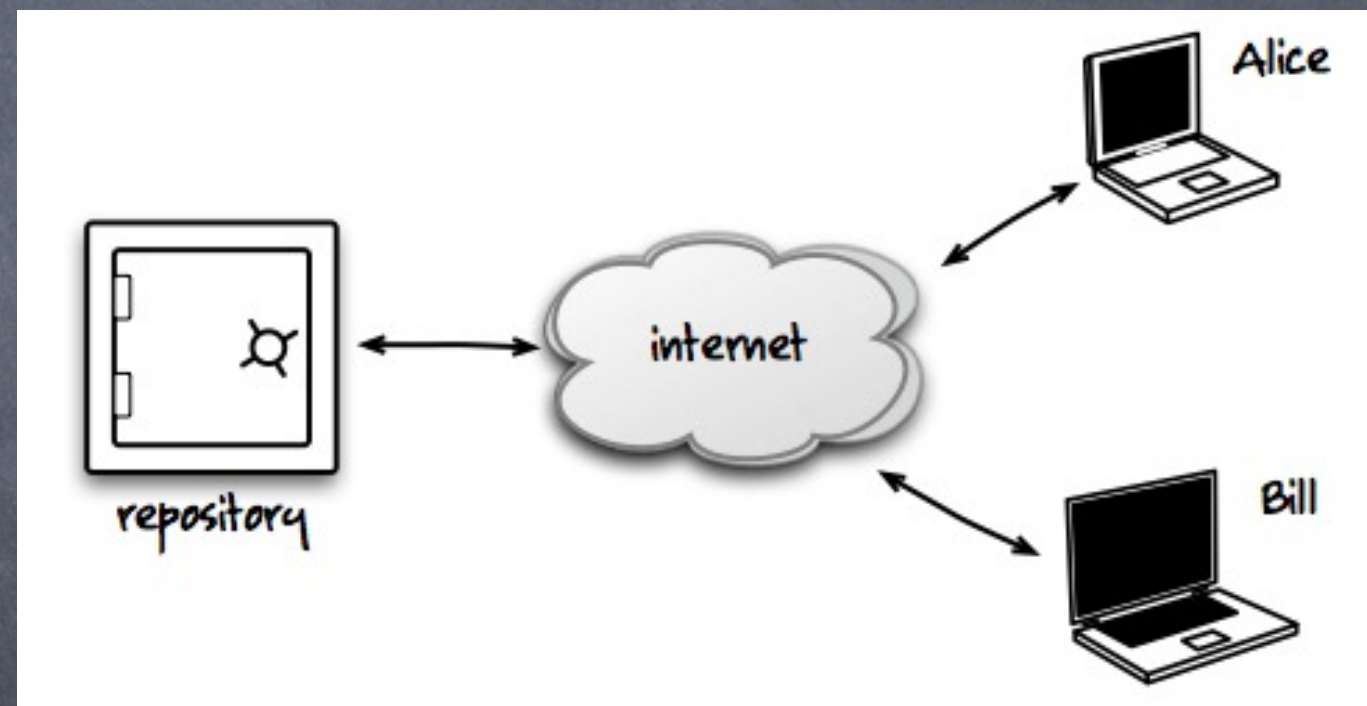
# Basic Workflow

- check out

- make changes

- see your changes

- commit





# Basic Workflow

## • check out

```
$ svn checkout $URL [folder]
```

## • make changes

```
$ svn add/delete FILE
```

```
$ svn mv OLDNAME NEWNAME
```

```
$ svn mv/cp FILE PATH/
```



# Basic Workflow

- see your changes

```
$ svn status [path]
```

```
$ svn diff [path]
```

- revert your changes? (maybe)

```
$ svn revert [-R] FILE/PATH
```



# Basic Workflow

## • commit

```
$ svn commit -m "..."
```

commits only invoke from your current path down the hierarchy and not for the whole working copy in general (unlike other vc systems)



# Working in a Team

- check out

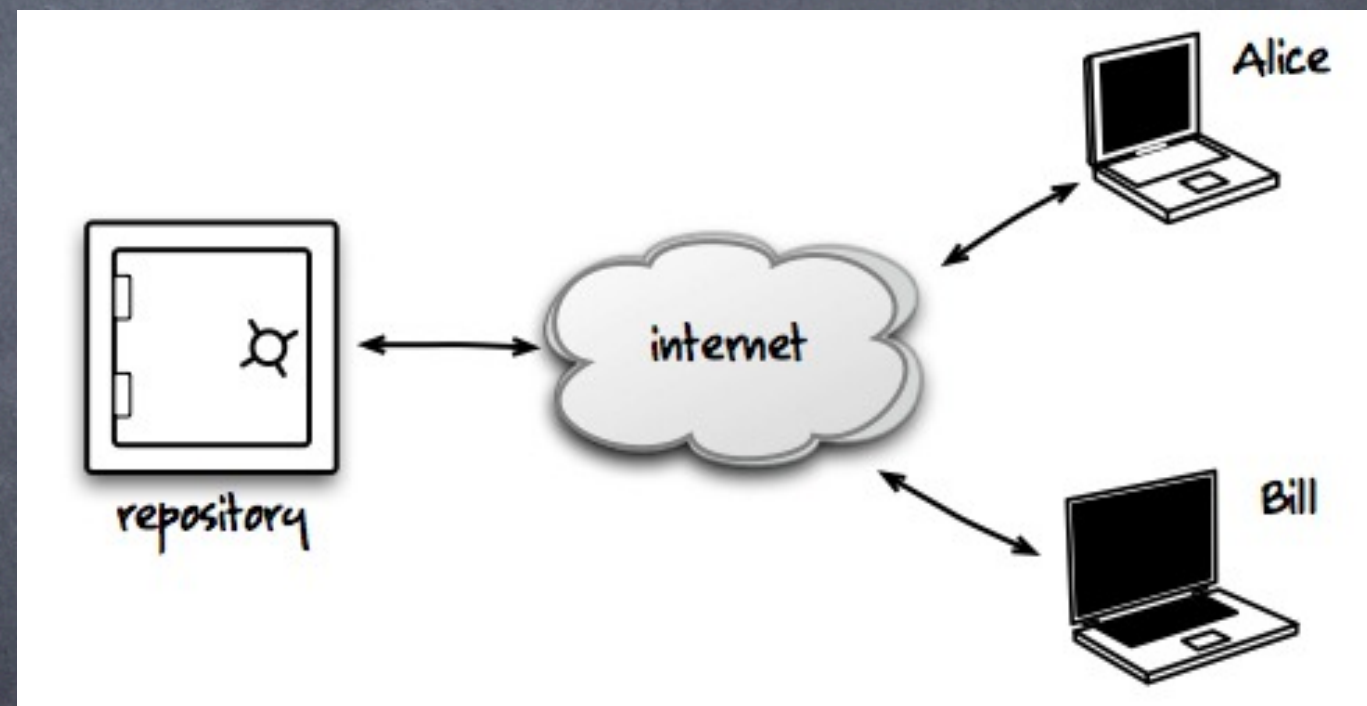
- update

```
$ svn update
```

- make changes

- see your changes

- commit





# Using the History

- view the log

```
$ svn log [-l NUMBER] [FILE]
```

- detective work!

```
$ svn blame [FILE]
```



# Using the History

- reverting a commit? (maybe)

```
$ svn revert -r FROM:TO
```

```
$ svn commit -m "reverted revision FROM"
```

- travel back in time?

```
$ svn update [-rREVISION] [PATH]
```



# Meta Commands

- show help

```
$ svn help COMMAND
```

- show current repository revision

```
$ svnversion
```



# Advanced Topics

- branching, merging, tagging
- file locking
- properties, externals, patches
- svn repository internals



# References

- Pragmatic Guide to Subversion, Mike Mason, Pragmatic Bookshelf 2010

