



Enabling Grids for E-science

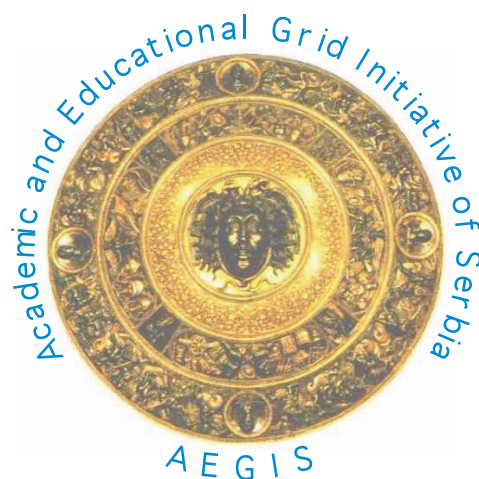
Subversion tutorial

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Sep. 19, 2008

www.eu-egee.org



SEE-GRID-SCI
SEE-GRID eInfrastructure for regional eScience

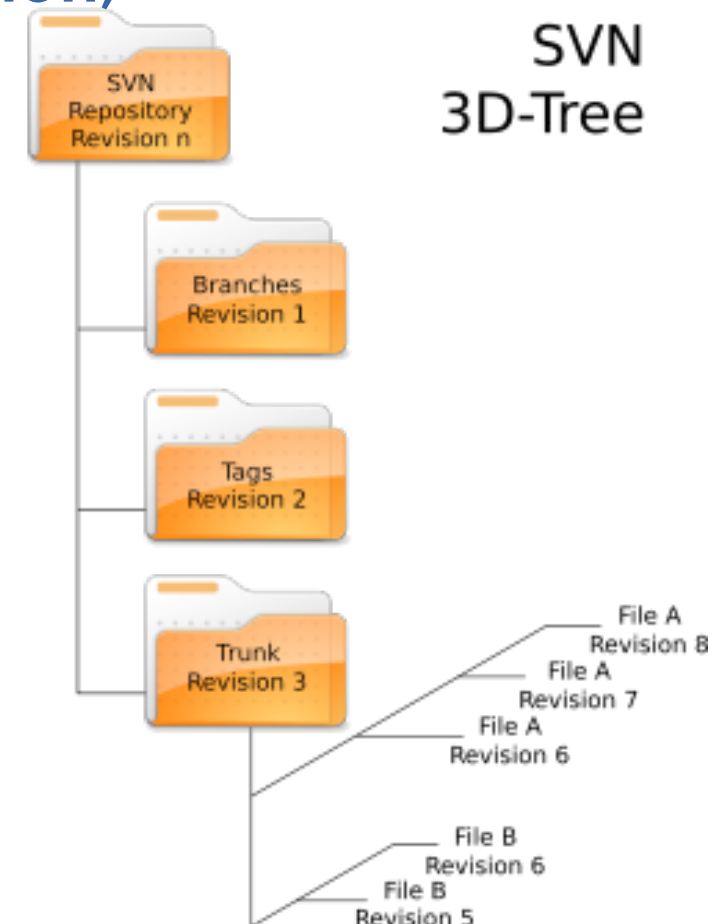


Information Society

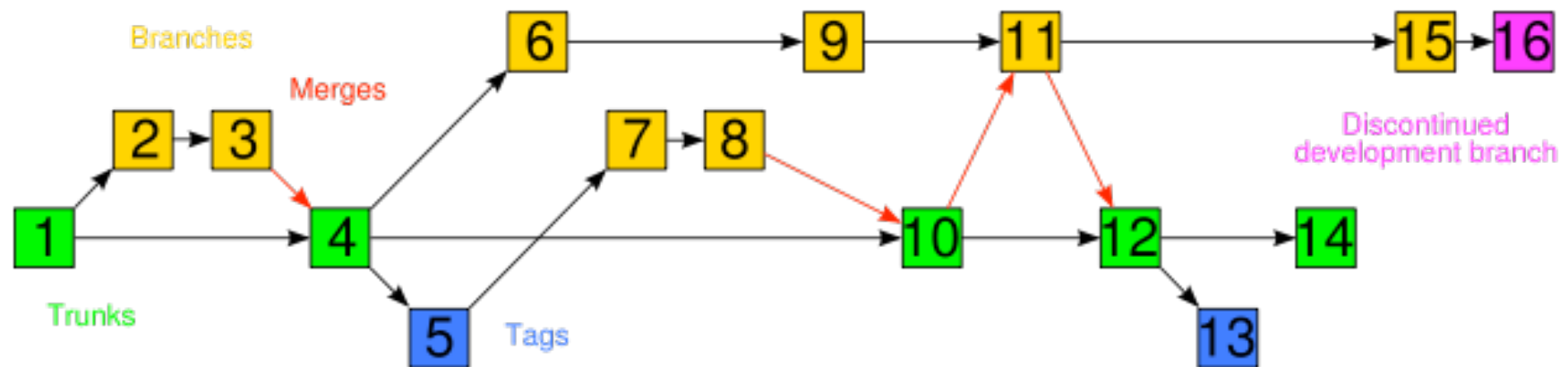


- Version control system
- Concurrent Versions System (CVS)
- Used by Apache Software Foundation, KDE, GNOME, Free Pascal, FreeBSD, GCC, Python, Django, Ruby, Mono,...
- SourceForge.net, Tigris.org
- Google Code, BountySource
- ViewVC

<https://ui.phy.bg.ac.yu/viewvc>



- What is Revision?
- What is Trunks?
- What is Tag?
- What is Branch?



- **Default editor** `export SVN_EDITOR=vi`

- **User certificate** `.subversion/servers`

`[groups]`

`scl = ui.phy.bg.ac.yu`

`[scl]`

`ssl-client-cert-file=/home/dusan/.globus/usercert.p12`

- **Initial project setup**

`svn mkdir https://ui.phy.bg.ac.yu/svn/scl/<project>`

`svn mkdir https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk`

`svn mkdir https://ui.phy.bg.ac.yu/svn/scl/<project>/tags`

`svn mkdir https://ui.phy.bg.ac.yu/svn/scl/<project>/branches`

- **Useful parameter**

`-m '<comment>'`

- **Importing an existing project**

```
svn import <path_to_project> https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk -m 'Initial import'
```

- **Checking out a project**

```
svn import checkout https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk
```

- **Get info**

```
svn info
```

- **Editing and adding files**

```
svn status
```

```
svn add <filename>
```

```
svn commit -m 'comment'
```

- **Get a copy of the previous version**

```
svn checkout -r xyz https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk <destination_folder>
```

- **Create tag**

```
svn copy https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk  
https://ui.phy.bg.ac.yu/svn/scl/<project>/tags/<project>-  
v1.0.0.-1
```

- **Deleting**

```
svn rm <filename_or_dirname>
```

- **Renaming**

```
svn rename <source> <destination>
```

- **Create branch**

```
svn copy https://ui.phy.bg.ac.yu/svn/scl/<project>/trunk  
https://ui.phy.bg.ac.yu/svn/scl/<project>/branches/  
<project>-v1.0.0.-1
```

- How to use Subversion with Eclipse

<http://subclipse.tigris.org/>

