Course organization

- Course introduction (Week 1)
  - Code editor: Emacs
- Part I: Introduction to C programming language (Week 1 - 12)
  - Chapter 1: Overall Introduction (Week 1-4)
    - C
    - Unix/Linux
  - Chapter 2: Types, operators and expressions (Week 4)
  - Chapter 3: Control flow (Week 5, 6)
  - Chapter 4: Functions and program structure (Week 6- 7)
  - Chapter 5: Pointers and arrays (Week 8-9)
  - Chapter 6: Structures (Week 10 - 11)
  - Chapter 7: Input and Output (Week 11-12)
- Part II: Skills others than programming languages (Week 12- 14)
  - Debugging tools（Week 12-13）
  - Keeping projects documented and manageable （Week 14）
  - **Source code managing** （**Week 14**）
- Part III: Reports from the battle field (student forum) (Week 15 – 16)

Chapter 10 SNV

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Contents

10.1 What is SVN

10.2 Start svn

10.2 Use SNV

- create a directory

- check in a file

- check out a file/directory

- version control

Reference:
Version controal with Subversion,
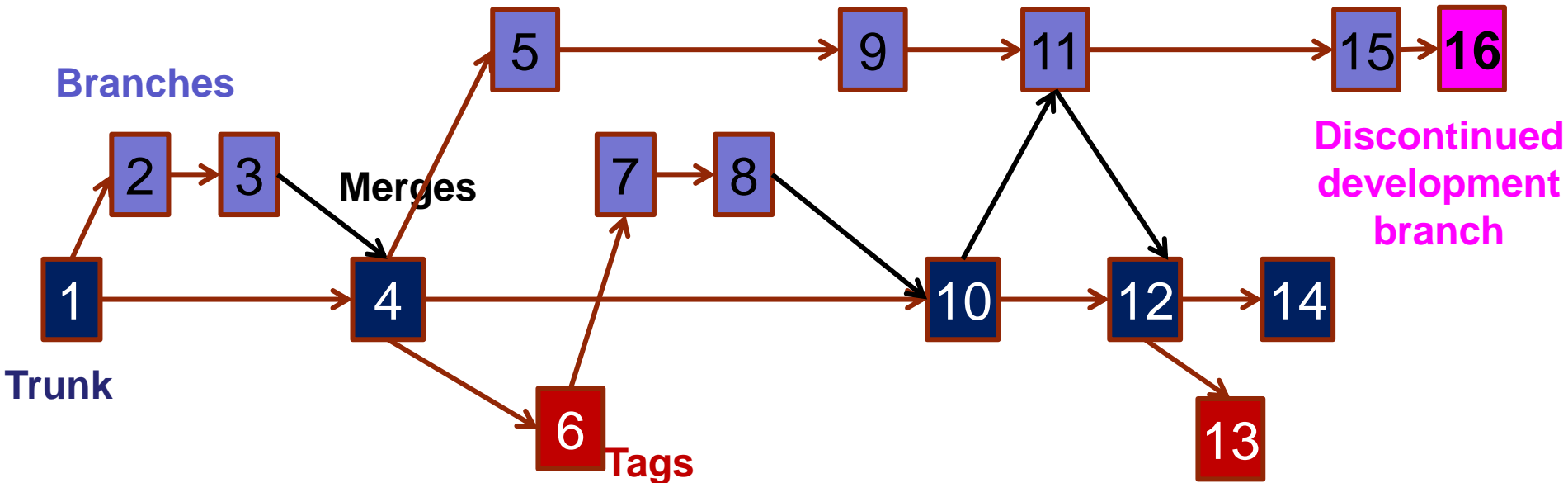http://svnbook.red-
bean.com/en/1.7/svn-book.pdf

◉ Subversion：SVN

- A software versioning and revision control system
- A compatible successor to the Concurrent Versions System(CVS)
- Started from the year 2000

🏵 Branching and tagging

Modified from http://en.wikipedia.org/wiki/Apache_Subversion

- log into your server

  ssh 202.120.45.100

  cd /share/home/ccwei

- Create an svn source code version management database (源代码管理数据库)。

  svnadmin create /share/home/ccwei/svn/repos/

  mkdir svn_tmp /* then put all the src files in this directory */

- import to database

  svn import svn_tmp file:///home/share/ccwei/svn/repos/ -m "initial import"

- start svnserve

  svnserve -d -r /share/home/ccwei/svn/repos/

- close svnserve

  killall svnserve

◉ checkout a working copy, then start from here

  ssh to 202.120.45.100

  cd to a directory (tmp) you want to put the source codes.

◉ check files in the svn database

  svn list svn://localhost/

◉   check out source files

  svn co svn://localhost/

◉ working on the scripts. For example, use emacs/vi modify a file week9/getline.c

◉ check in the change

  svn commit getline.c -m "description of the change".

Password: 1234

- Add a file to svn database

    svn add readme

    svn commit readme -m "add to svn database".

Password: 1234

- Delete a file from svn database

    svn delete readme

    svn commit -m "delete readme file from svn database".

- Update: resume your work from a latest version under an existing working directory

    svn update