GIT on AOSABOOK

http://www.tuestudy.org http://wiki.tuestudy.org

2012/10/23 dgoon(deadbeef@dgoon.net)

GIT이 뭐냐?

- One of Version Control System(VCS)
- Subversion, CVS, bazaar, mercurial ...
- Fast, powerful and (a little bit) sophiscated

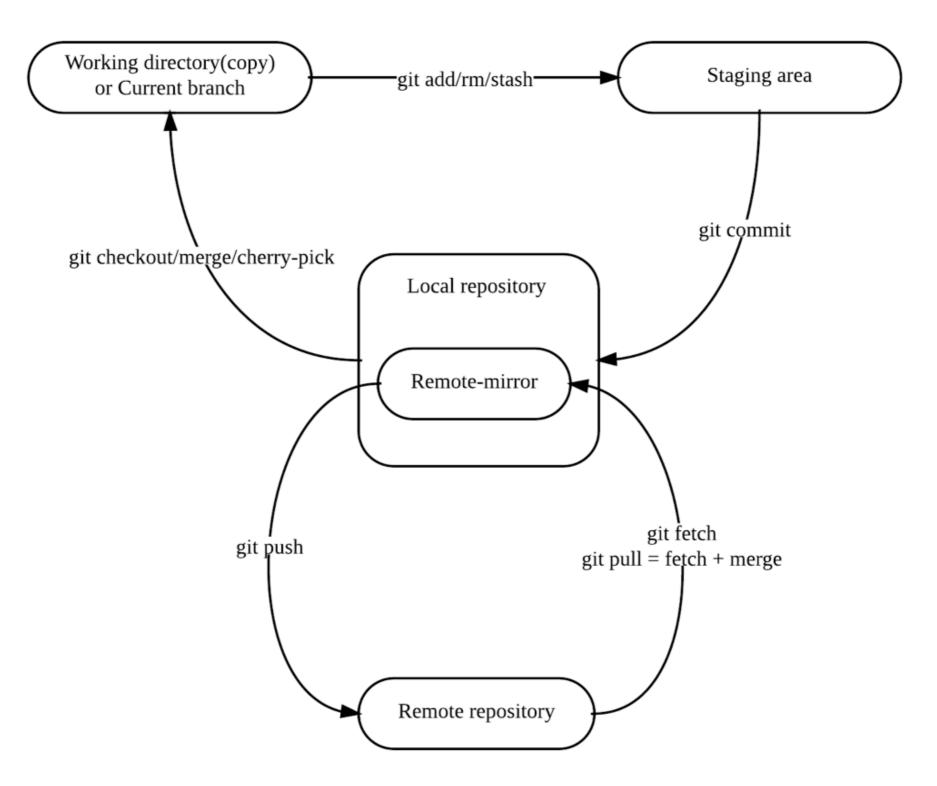
저장 단위가 뭐야?

- Objects
 - Tree: Directory/Folder in filesystem
 - Blob: File in filesystem
 - Commit: Parents + A tree
 - Parents: Other commits or NULL
 - Tree: Snapshot of modified contents
 - TAG: A Pointer to a commit

변경내용은?

- Changeset? NO
- Every commit has FULL contents of modified files with directory structure
- Space inefficiency? Zip it.

저장 구조는?



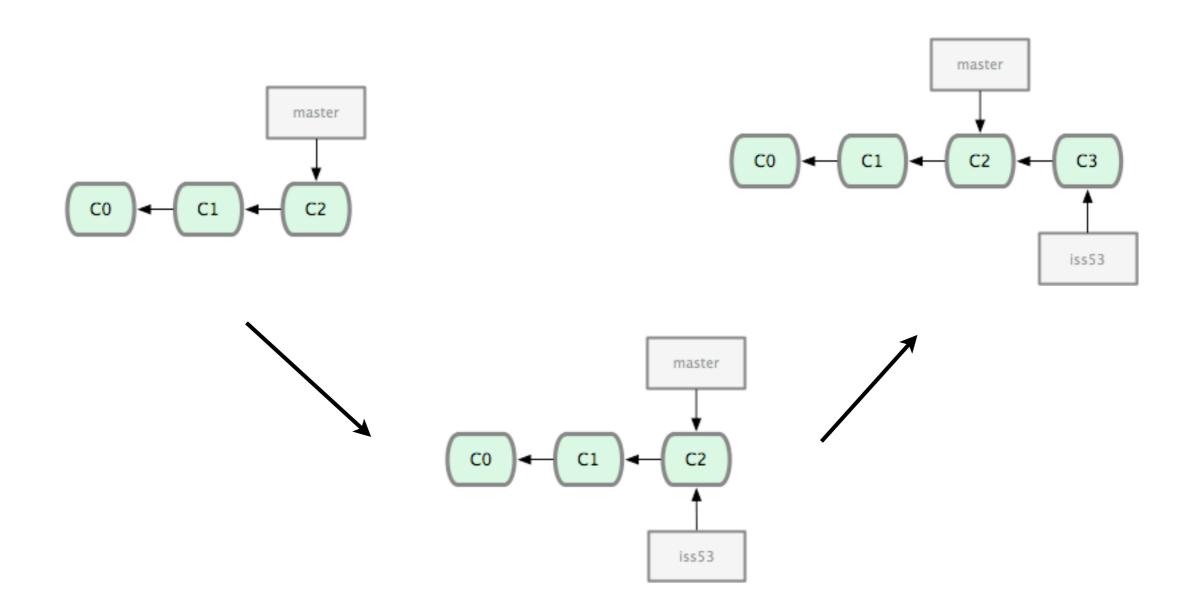
저장소?

- 저장소(Repository)
 - DAG of COMMITs
 - And a few TAGs
- 변경이력(History)
 - Trivial: Every commit has a path to root
 - This path is an history, or timeline

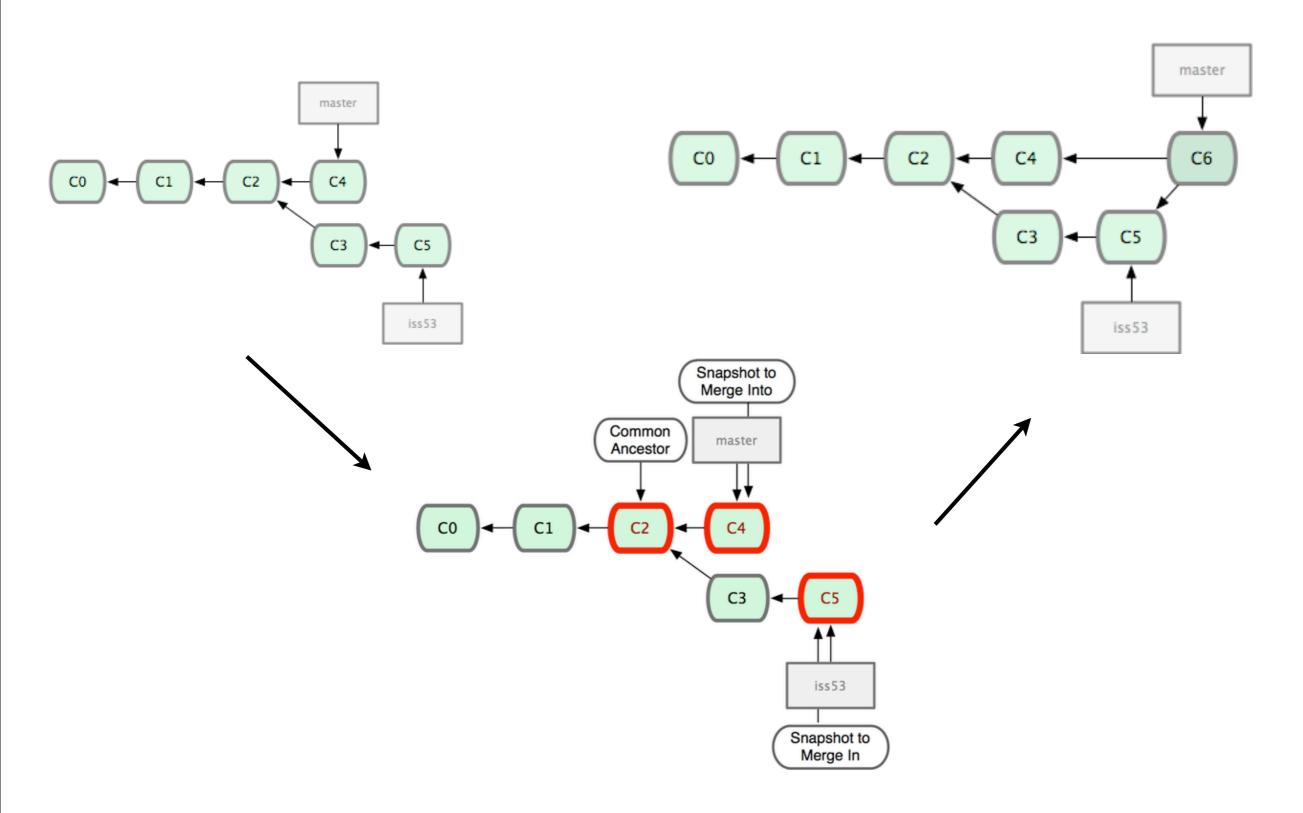
이런게 변경이력

205029a1 b2f8f0f7 4198cadc d71420e1 9e4eb2ac 22f6ef0b c79668a2 5a5d0b79 c07c2cf2 0a422f5b 1ec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a 166e36e3		
4198cadc d71420e1 9e4eb2ac 22f6ef0b c79668a2 5a5d0b79 c07c2cf2 0a422f5b lec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		205029a1
d71420e1 9e4eb2ac 22f6ef0b c79668a2 5a5d0b79 c07c2cf2 0a422f5b lec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		b2f8f0f7
9e4eb2ac 22f6ef0b c79668a2 5a5d0b79 c07c2cf2 0a422f5b lec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		4198cadc
22f6ef0b c79668a2 5a5d0b79 c07c2cf2 0a422f5b 1ec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		d71420e1
c79668a2 5a5d0b79 c07c2cf2 0a422f5b lec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		9e4eb2ac
5a5d0b79	1	22f6ef0b
c07c2cf2	1	c79668a2
0a422f5b 1ec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		5a5d0b79
1ec70301 638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	6	c07c2cf2
638b6e83 73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	N	0a422f5b
73e6840b f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	l 	1ec70301
f789a8ba 54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		638b6e83
54e7b3f5 a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		73e6840b
a6e3a72d 7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	\ †	f789a8ba
7927aeab 954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	1	54e7b3f5
954751d7 507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	l It	a6e3a72d
507e9888 91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	\ \	7927aeab
91a651aa 93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	\	954751d7
93093b5a 3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		507e9888
3bfc787c 1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	1	91a651aa
1cbaa217 d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		93093b5a
d2a1cbc4 a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	77	3bfc787c
a3b17868 d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		1cbaa217
d3d50f6c aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		d2a1cbc4
aec1188b 5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		a3b17868
5faf49b6 53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a		d3d50f6c
53e7784d 9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	\ 	aec1188b
9cea9db9 523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	W	5faf49b6
523d97e5 a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	N	53e7784d
a1b3264f 7af99d6f c84320a4 3c71475d d9cff29a	1 }	9cea9db9
7af99d6f c84320a4 3c71475d d9cff29a		523d97e5
c84320a4 3c71475d d9cff29a	n	a1b3264f
3c71475d d9cff29a	1 †	7af99d6f
d9cff29a		c84320a4
	1	3c71475d
166e36e3	$\backslash \backslash \uparrow$	d9cff29a
7007-036		166e36e3
	1 1 1	3007-036

가지치기



가지붙이기



좀 더 자세히?

- http://www.aosabook.org/en/git.html
- http://wiki.tuestudy.org/aosabook/materials/git
- http://git-scm.com/book
- Google will lead you!

뭐가 궁금해?

아는건 답해드림 전화는 곤란하고 <u>deadbeef@dgoon.net</u> 사용 위키에 토론을 열어도 좋습니다

-> http://wiki.tuestudy.org/@aosabook/materials/git