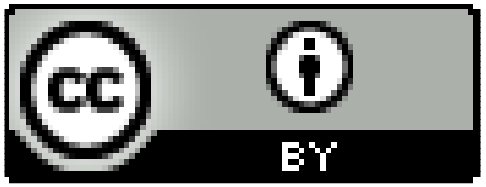
Version Control

Command Line



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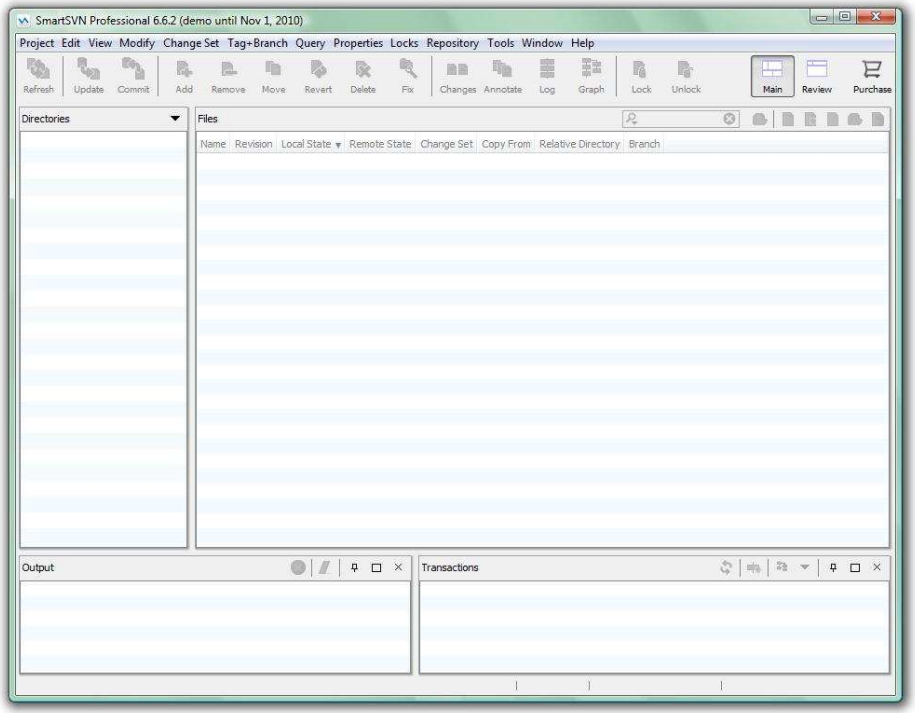
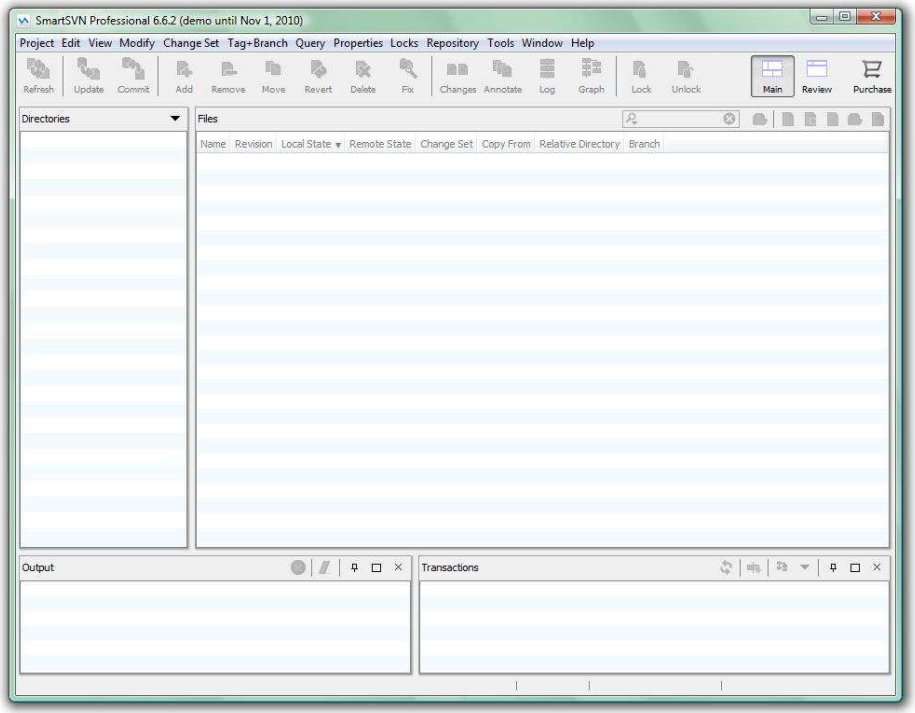
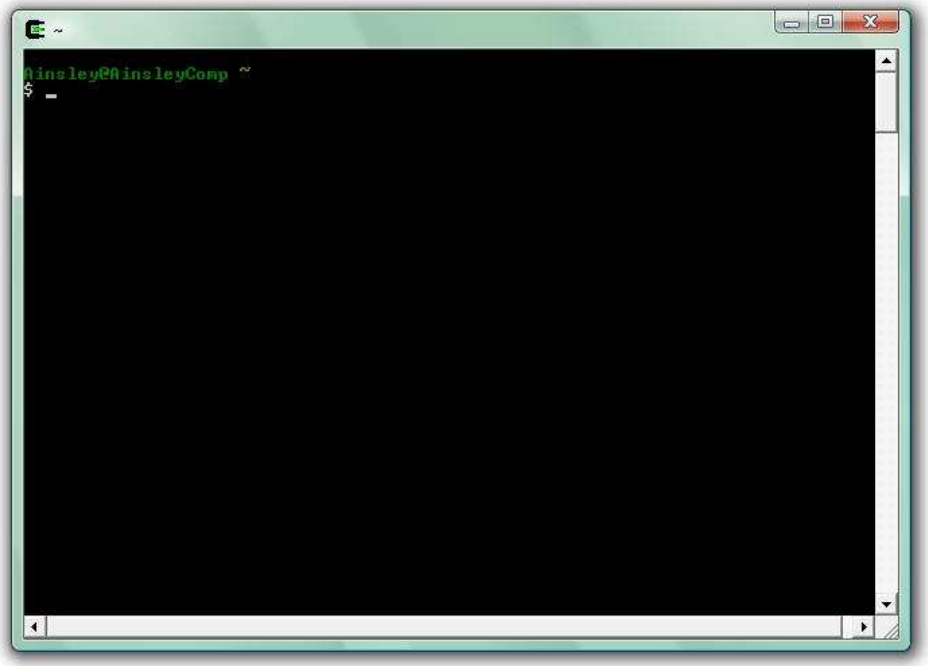
SmartSVN


SmartSVN Professional 6.6.2 (demo until Nov 1, 2010)
Project Edit View Modify Change Set Tag+Branch Query Properties Locks Repository Tools Window Help
Refresh Update Commit Add Remove Move Revert Delete Fix Changes Annotate Log Graph Lock Unlock Main Review Purchase
Directories
Files
Name Revision Local State Remote State Change Set Copy From Relative Directory Branch
Output
Transactions

SmartSVN



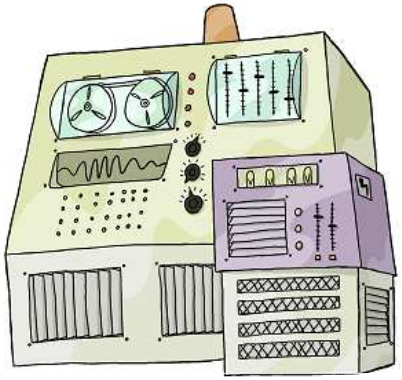
Command Line



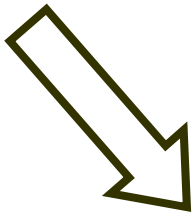
It’s fast.

It's fast.

It's simple.



revision 6



```
$ svn checkout
```

```
$ svn co
```

```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
```

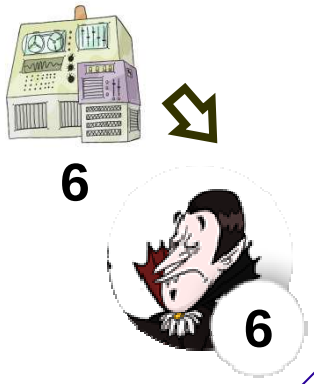
```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
```

repository

```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
```

working copy

```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
A  earth/carlsbad.txt
A  earth/antarctica.txt
...
Checked out revision 6.
$
```



```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
A  earth/carlsbad.txt
A  earth/antarctica.txt
...
Checked out revision 6.
$ cd /cygwin/home/dracula/monsters
$
```

```
$ svn co https://universal.software-carpentry.org
  /cygwin/home/dracula/monsters
A  earth/carlsbad.txt
A  earth/antarctica.txt
...
Checked out revision 6.
$ cd /cygwin/home/dracula/monsters
$ ls
earth   mars   jupiter   …
$
```

```
$ svn log
```

```
$ svn log
Damn the budget - the Jovian moons would be …
------------------------------------------------
r6 | mummy | 2010-07-26 09:21:39 | 1 lines

The budget might not even stretch to a deep…
------------------------------------------------
r5 | mummy | 2010-07-26 09:19:18 | 1 lines
…

$
```

```
$ svn log
```

```
Damn the budget - the Jovian moons would be …
------------------------------------------------------------------------
r6 | mummy | 2010-07-26 09:21:39 | 1 lines

The budget might not even stretch to a deep…
------------------------------------------------------------------------
r5 | mummy | 2010-07-26 09:19:18 | 1 lines
…

$
```

```
$ svn log
Damn the budget - the Jovian moons would be …
------------------------------------------------
r6 | mummy | 2010-07-26 09:21:39 | 1 lines

The budget might not even stretch to a deep…
------------------------------------------------
r5 | mummy | 2010-07-26 09:19:18 | 1 lines
…

$
```

```
$ svn log
Damn the budget - the Jovian moons would be …
------------------------------------------------
r6 | mummy | 2010-07-26 09:21:39 | 1 lines

The budget might not even stretch to a deep…
------------------------------------------------
r5 | mummy | 2010-07-26 09:19:18 | 1 lines
…

$
```

```
$ cd jupiter
$
```

```
$ cd jupiter
$ nano moons.txt
GNU Nano
Name          Orbital Radius       Orbital Period       Mass
Io            421.6                     1.769138                 893.2
Europa        670.9                     3.551181                 480.0
Ganymede      1070.4                    7.154553                 1481.9
Calisto 1882.7                    16.689018                1075.9
…
$
```

```
$ cd jupiter
$ nano moons.txt
```

see SWC lecture on "The Shell" for details about file creation

```
GNU Nano
Name          Orbital Radius       Orbital Period       Mass
Io            421.6                     1.769138              893.2
Europa        670.9                     3.551181              480.0
Ganymede      1070.4                    7.154553              1481.9
Calisto 1882.7                    16.689018                1075.9
…
$
```

```
$ cd jupiter
$ nano moons.txt
GNU Nano
Name          Orbital Radius       Orbital Period       Mass
Io            421.6                     1.769138                 893.2
Europa        670.9                     3.551181                 480.0
Ganymede      1070.4                    7.154553                 1481.9
Calisto 1882.7                    16.689018                1075.9
…
$
```

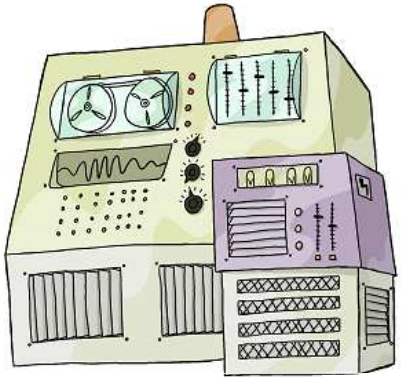
```
$ cd jupiter
$ nano moons.txt
```

```
GNU Nano
Name          Orbital Radius       Orbital Period       Mass
Io            421.6                     1.769138                 893.2
Europa        670.9                     3.551181                 480.0
Ganymede      1070.4                    7.154553                 1481.9
Calisto 1882.7                    16.689018                1075.9
…
```

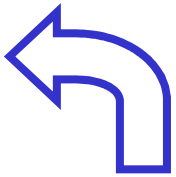
```
$ svn add
```

```
$ cd jupiter
$ nano moons.txt
GNU Nano
Name        Orbital Radius      Orbital Period      Mass
Io          421.6                   1.769138                893.2
Europa      670.9                   3.551181                480.0
Ganymede    1070.4                  7.154553                1481.9
Calisto 1882.7                  16.689018               1075.9
…
$ svn add moons.txt
```

```
$ cd jupiter
$ nano moons.txt
GNU Nano
Name          Orbital Radius       Orbital Period       Mass
Io            421.6                     1.769138                 893.2
Europa        670.9                     3.551181                 480.0
Ganymede      1070.4                    7.154553                 1481.9
Calisto 1882.7                    16.689018                1075.9
…
$ svn add moons.txt
A  moons.txt
$
```



revision 6



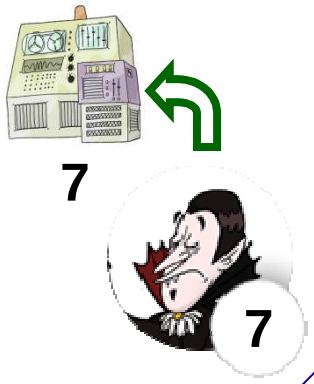
revision 6+

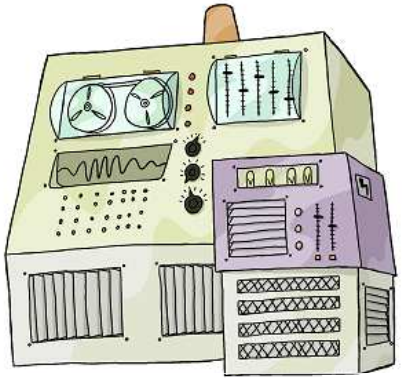
```
$ svn commit -m “Some basic facts about the
  Galilean moons of Jupiter.”
```

```
$ svn commit -m “Some basic facts about the
  Galilean moons of Jupiter.”
```

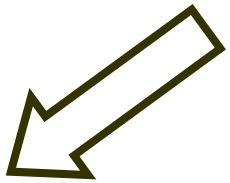
```
$ svn commit -m “Some basic facts about the
  Galilean moons of Jupiter.”
```

```
$ svn commit -m "Some basic facts about the
  Galilean moons of Jupiter."
Adding       moons.txt
Transmitting file data . .
Committed revision 7.
$
```





revision 7



revision 6

```
$ cd /cygwin/home/wolfman/monsters
```

```
$ cd /cygwin/home/wolfman/monsters
$ svn update
```

```
$ cd /cygwin/home/wolfman/monsters
$ svn update
A  jupiter/moons.txt
Updated to revision 7.
$
```

```
$ cd /cygwin/home/wolfman/monsters
$ svn update
A  jupiter/moons.txt
Updated to revision 7.
$ cd jupiter
$ less moons.txt
Name        Orbital Radius      Orbital Period      Mass
Amalthea    181.4                   0.498179              0.075
Io          421.6                   1.769138              893.2
Europa      670.9                   3.551181              480.0
Ganymede    1070.4                  7.154553              1481.9
Calisto 1882.7                  16.689018             1075.9
```

```
$ cd /cygwin/home/wolfman/monsters
$ svn update
A  jupiter/moons.txt
Updated to revision 7.
$ cd jupiter
$ less moons.txt
Name        Orbital Radius      Orbital Period      Mass
Amalthea    181.4                   0.498179              0.075
Io          421.6                   1.769138              893.2
Europa      670.9                   3.551181              480.0
Ganymede    1070.4                  7.154553              1481.9
Calisto 1882.7                  16.689018             1075.9
```

```
$ nano moons.txt
```

```
GNU Nano
Name          Orbital Radius      Orbital Period      Mass
Io            421.6                   1.769138              893.2
Europa        670.9                   3.551181              480.0
Ganymede      1070.4                  7.154553              1481.9
Callisto      1882.7                  16.689018             1075.9
```

```
$ nano moons.txt
```

```
GNU Nano
Name          Orbital Radius      Orbital Period      Mass
Amalthea      181.4                   0.498179              0.075
Io            421.6                   1.769138              893.2
Europa        670.9                   3.551181              480.0
Ganymede      1070.4                  7.154553              1481.9
Callisto      1882.7                  16.689018             1075.9
```

```
$ nano moons.txt
```

```
GNU Nano
Name          Orbital Radius      Orbital Period      Mass
Amalthea      181.4                   0.498179                0.075
Io            421.6                   1.769138                893.2
Europa        670.9                   3.551181                480.0
Ganymede      1070.4                  7.154553                1481.9
Callisto      1882.7                  16.689018               1075.9
…
```

```
$ svn commit –m “1. Fixed typo Calisto->Callisto.
  2. Added info about Amalthea.”
```

```
Sending        jupiter/moons.txt
Transmitting file data .
Committed revision 8.
```

```
$ cd /cygwin/home/dracula/monsters
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
```

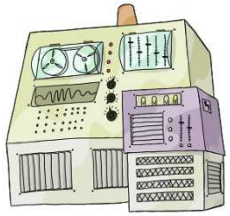
```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
Index: jupiter/moons.txt
===================================================================
--- jupiter/moons.txt   (revision 8)
+++ jupiter/moons.txt   (working copy)
@@ -1,6 +1,5 @@
 Name            Orbital Radius  Orbital Period  Mass
-Amalthea        181.4                   0.498179            0.075
 Io              421.6                   1.769138            893.2
 Europa      670.9                   3.551181            480.0
 Ganymede        1070.4                  7.154553            1481.9
-Callisto         1882.7            16.689018        1075.9
+Calisto          1882.7            16.689018        1075.9
$
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
Index: jupiter/moons.txt
===================================================================
--- jupiter/moons.txt   (revision 8)
+++ jupiter/moons.txt   (working copy)
@@ -1,6 +1,5 @@
 Name            Orbital Radius  Orbital Period  Mass
-Amalthea        181.4               0.498179            0.075
 Io              421.6               1.769138            893.2
 Europa      670.9               3.551181            480.0
 Ganymede        1070.4              7.154553            1481.9
-Callisto          1882.7            16.689018         1075.9
+Calisto           1882.7            16.689018         1075.9
$
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
Index: jupiter/moons.txt
===================================================================
--- jupiter/moons.txt   (revision 8)
+++ jupiter/moons.txt   (working copy)
@@ -1,6 +1,5 @@
 Name            Orbital Radius  Orbital Period  Mass
-Amalthea        181.4                   0.498179            0.075
 Io              421.6                   1.769138            893.2
 Europa      670.9                   3.551181            480.0
 Ganymede        1070.4                  7.154553            1481.9
-Callisto         1882.7             16.689018       1075.9
+Calisto          1882.7             16.689018       1075.9
$
```

```
$ cd /cygwin/home/dracula/monsters
$ svn diff -r HEAD
Index: jupiter/moons.txt
===================================================================
--- jupiter/moons.txt   (revision 8)
+++ jupiter/moons.txt   (working copy)
@@ -1,6 +1,5 @@
 Name            Orbital Radius  Orbital Period  Mass
-Amalthea        181.4                   0.498179            0.075
 Io              421.6                   1.769138            893.2
 Europa      670.9                   3.551181            480.0
 Ganymede        1070.4                  7.154553            1481.9
-Callisto         1882.7             16.689018       1075.9
+Calisto          1882.7             16.689018       1075.9
$ svn update
G    jupiter/moons.txt
Updated to revision 8.
```

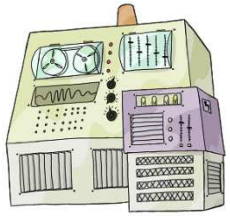


revision 8

revision 8

revision 8

Dealing with Conflicts



revision 8

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius	Orbital Period	Mass
Amalthea	181.4	0.498179	0.075
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

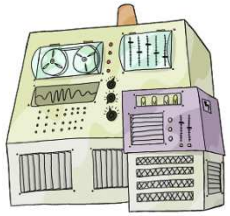
revision 8+

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius	Orbital Period	Mass
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9

revision 8+



revision 9

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius	Orbital Period	Mass
Amalthea	181.4	0.498179	0.075
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

revision 8+

moons.txt - Notepad

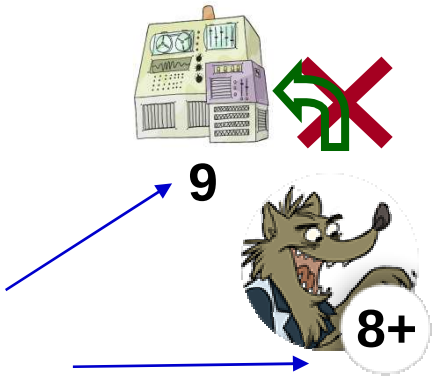
File Edit Format View Help

Name	Orbital Radius	Orbital Period	Mass
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9

revision 9

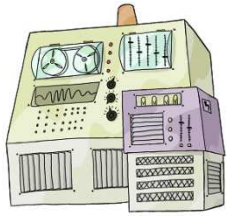
```
$ svn commit -m "Added data for Himalia, Elara"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$
```

```
$ svn commit -m "Added data for Himalia, Elara"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$
```



```
$ svn commit -m "Added data for Himalia, Elara"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$ svn update
G    jupiter/moons.txt
Updated to revision 9.
$
```

```
$ svn commit -m "Added data for Himalia, Elara"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$ svn update
G    jupiter/moons.txt
Updated to revision 9.
$ svn commit -m "Added data for Himalia, Elara"
Sending        jupiter/moons.txt
Transmitting file data .
Committed revision 10.
$
```



revision 10

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius (10**3 km)	Orbital Period (days)	Mass (10**20 kg)
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

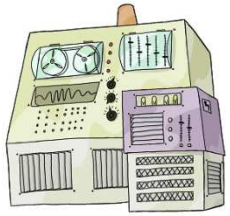
revision 10+

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius * 10^3 km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

revision 9+



revision 11

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius (10**3 km)	Orbital Period (days)	Mass (10**20 kg)
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

moons.txt - Notepad

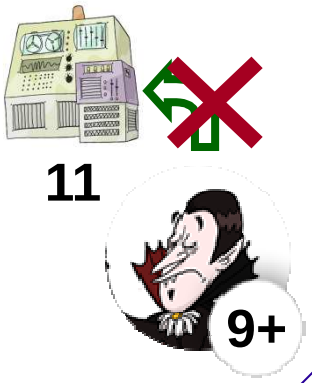
File Edit Format View Help

Name	Orbital Radius * 10^3 km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9
Himalia	11460	250.5662	0.095
Elara	11740	259.6528	0.008

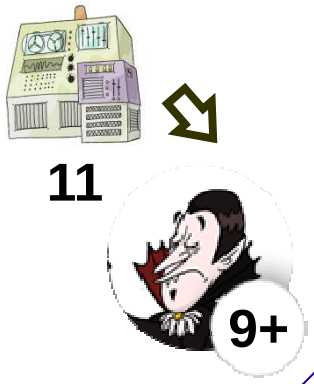
revision 11

revision 9+

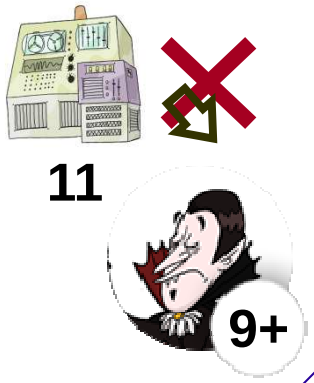
```
$ svn commit -m “Added measurement units"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$
```



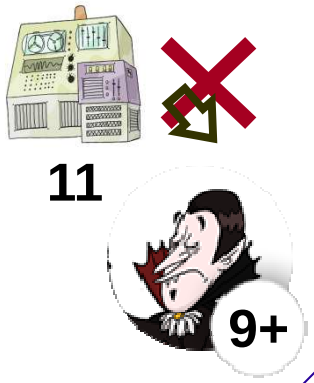
```
$ svn commit -m “Added measurement units"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$ svn update
```



```
$ svn commit -m “Added measurement units"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$ svn update
Conflict discovered in ‘jupiter/moons.txt'.
Select: (p) postpone, (df) diff-full, (e) edit,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```



```
$ svn commit -m “Added measurement units"
Sending        jupiter/moons.txt
svn: Commit failed (details follow):
svn: File or directory 'moons.txt' is out of date;
     try updating
svn: resource out of date; try updating
$ svn update
Conflict discovered in ‘jupiter/moons.txt'.
Select: (p) postpone, (df) diff-full, (e) edit,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:  df
```



```
--- jupiter/.svn/text-base/moons.txt.svn-base  Fri Oct  1 21:08
+++ jupiter/.svn/tmp/moons.txt.tmp                Fri Oct  1 22:59
@@ -1,6 +1,11 @@
 Name             Orbital Radius  Orbital Period  Mass
+<<<<<<< .mine
+                 * 10^3 km       * days             * 10^20 kg
+=======
+                 (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
 Amalthea         181.4           0.498179         0.074
 Io               421.6           1.769138         893.2
 Europa           670.9           3.551181         480.0
 Ganymede         1070.4          7.154553         1481.9
 Callisto         1882.7          16.689018        1075.9
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```

```
--- jupiter/.svn/text-base/moons.txt.svn-base  Fri Oct  1 21:08
+++ jupiter/.svn/tmp/moons.txt.tmp                Fri Oct  1 22:59
@@ -1,6 +1,11 @@
 Name             Orbital Radius  Orbital Period  Mass
+<<<<<<< .mine
+                  * 10^3 km       * days          * 10^20 kg
+=======
+                  (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
 Amalthea         181.4           0.498179        0.074
 Io               421.6           1.769138        893.2
 Europa           670.9           3.551181        480.0
 Ganymede         1070.4          7.154553        1481.9
 Callisto         1882.7          16.689018       1075.9
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```

```
--- jupiter/.svn/text-base/moons.txt.svn-base  Fri Oct  1 21:08
+++ jupiter/.svn/tmp/moons.txt.tmp                Fri Oct  1 22:59
@@ -1,6 +1,11 @@
 Name             Orbital Radius  Orbital Period  Mass
+<<<<<<< .mine
+                 * 10^3 km       * days             * 10^20 kg
+=======
+                  (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
 Amalthea         181.4           0.498179        0.074
 Io               421.6           1.769138        893.2
 Europa           670.9           3.551181        480.0
 Ganymede         1070.4          7.154553        1481.9
 Callisto         1882.7          16.689018       1075.9
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```

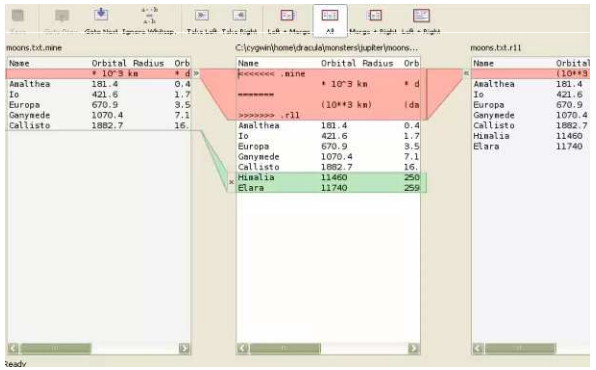
```
--- jupiter/.svn/text-base/moons.txt.svn-base  Fri Oct  1 21:08
+++ jupiter/.svn/tmp/moons.txt.tmp                Fri Oct  1 22:59
@@ -1,6 +1,11 @@
 Name             Orbital Radius  Orbital Period  Mass
+<<<<<<< .mine
+                 * 10^3 km       * days             * 10^20 kg
+=======
+                 (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
 Amalthea         181.4           0.498179         0.074
 Io               421.6           1.769138         893.2
 Europa           670.9           3.551181         480.0
 Ganymede         1070.4          7.154553         1481.9
 Callisto         1882.7          16.689018        1075.9
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: e
```

```
GNU Nano
Name            Orbital Radius  Orbital Period  Mass
<<<<<<< .mine
+                * 10^3 km       * days              * 10^20 kg
+=======
+                (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
Amalthea        181.4           0.498179        0.074
Io              421.6           1.769138        893.2
Europa          670.9           3.551181        480.0
Ganymede        1070.4          7.154553        1481.9
Callisto        1882.7          16.689018       1075.9

…
```

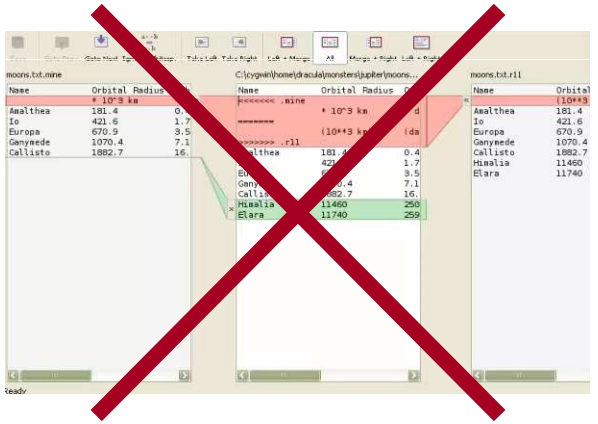
```
GNU Nano
Name            Orbital Radius  Orbital Period  Mass
<<<<<<< .mine
+                * 10^3 km       * days              * 10^20 kg
+=======
+                (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
Amalthea        181.4           0.498179        0.074
Io              421.6           1.769138        893.2
Europa          670.9           3.551181        480.0
Ganymede        1070.4          7.154553        1481.9
Callisto        1882.7          16.689018       1075.9

…
```



```
GNU Nano
Name            Orbital Radius  Orbital Period  Mass
<<<<<<< .mine
+                * 10^3 km       * days              * 10^20 kg
+=======
+                (10**3 km)      (days)          (10**20 kg)
+>>>>>>> .r11
Amalthea        181.4           0.498179        0.074
Io              421.6           1.769138        893.2
Europa          670.9           3.551181        480.0
Ganymede        1070.4          7.154553        1481.9
Callisto        1882.7          16.689018       1075.9
```

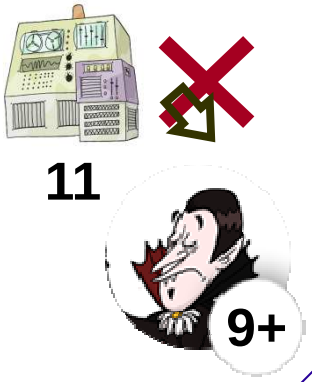
…



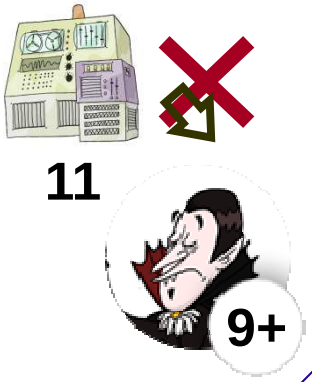
```
GNU Nano
Name            Orbital Radius  Orbital Period  Mass
                * 10^3 km       * days          * 10^20 kg
Amalthea        181.4           0.498179        0.074
Io              421.6           1.769138        893.2
Europa          670.9           3.551181        480.0
Ganymede        1070.4          7.154553        1481.9
Callisto        1882.7          16.689018       1075.9

…
```

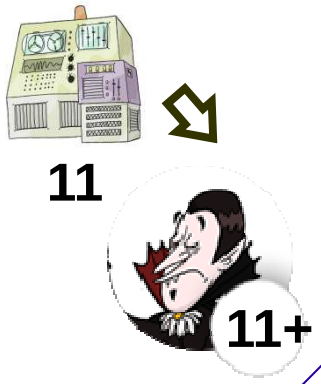
```
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options:
```



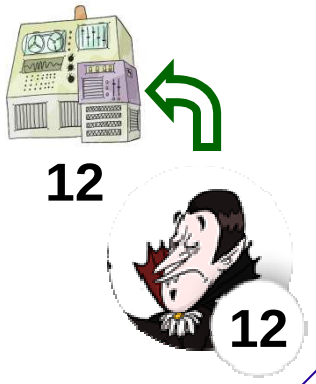
```
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: r
```



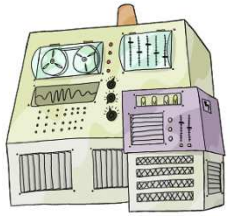
```
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: r
Updated to revision 11.
$
```



```
Select: (p) postpone, (df) diff-full, (e) edit, (r) resolved,
        (mc) mine-conflict, (tc) theirs-conflict,
        (s) show all options: r
Updated to revision 11.
$ svn commit -m "Added measurement units"
Sending        jupiter/moons.txt
Transmitting file data .
Committed revision 12.
```



Rollback



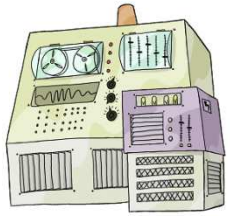
revision 12

moons.txt - Notepad

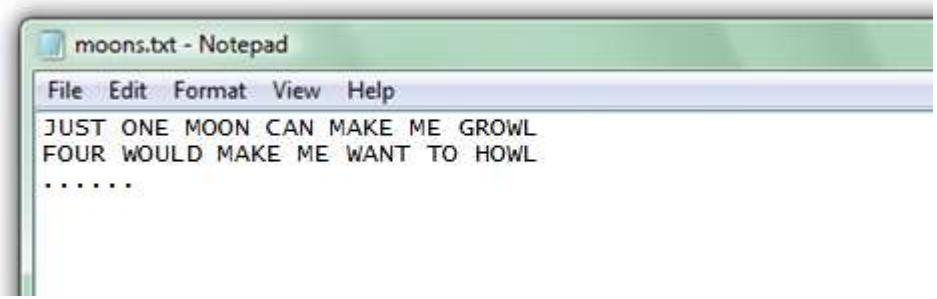
File Edit Format View Help

Name	Orbital Radius * 10^3 km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9

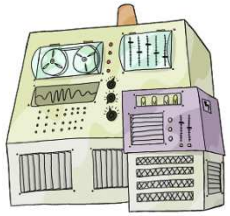
revision 12



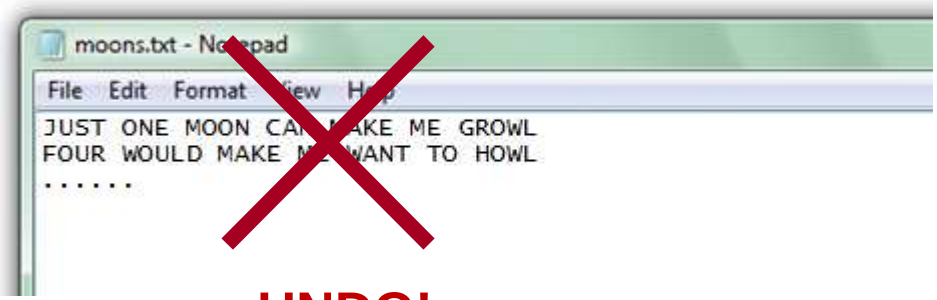
revision 12



revision 12+



revision 12



UNDO!

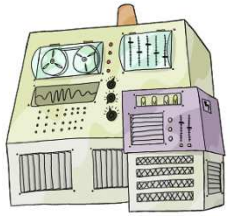
revision 12+

```
$ cd /cygwin/home/wolfman/monsters/jupiter
$
```

```
$ cd /cygwin/home/wolfman/monsters/jupiter
$ svn revert
```

```
$ cd /cygwin/home/wolfman/monsters/jupiter
$ svn revert moons.txt
```

```
$ cd /cygwin/home/wolfman/monsters/jupiter
$ svn revert moons.txt
Reverted    moons.txt
$
```



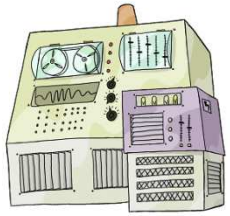
revision 12

moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius * 10^3 km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181.4	0.498179	0.074
Io	421.6	1.769138	893.2
Europa	670.9	3.551181	480.0
Ganymede	1070.4	7.154553	1481.9
Callisto	1882.7	16.689018	1075.9

revision 12



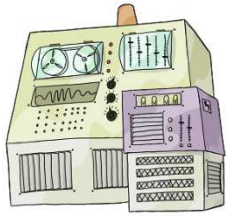
revision 12

moons.txt - Notepad

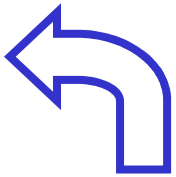
File Edit Format View Help

Name	Orbital Radius * km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181,400	0.498179	0.074
Io	421,600	1.769138	893.2
Europa	670,900	3.551181	480.0
Ganymede	1070,400	7.154553	1481.9
Callisto	1882,700	16.689018	1075.9

revision 12+



revision 13

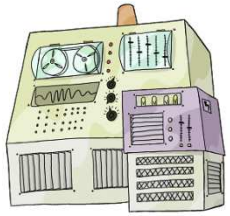


moons.txt - Notepad

File Edit Format View Help

Name	Orbital Radius * km	Orbital Period * days	Mass * 10^20 kg
Amalthea	181,400	0.498179	0.074
Io	421,600	1.769138	893.2
Europa	670,900	3.551181	480.0
Ganymede	1070,400	7.154553	1481.9
Callisto	1882,700	16.689018	1075.9

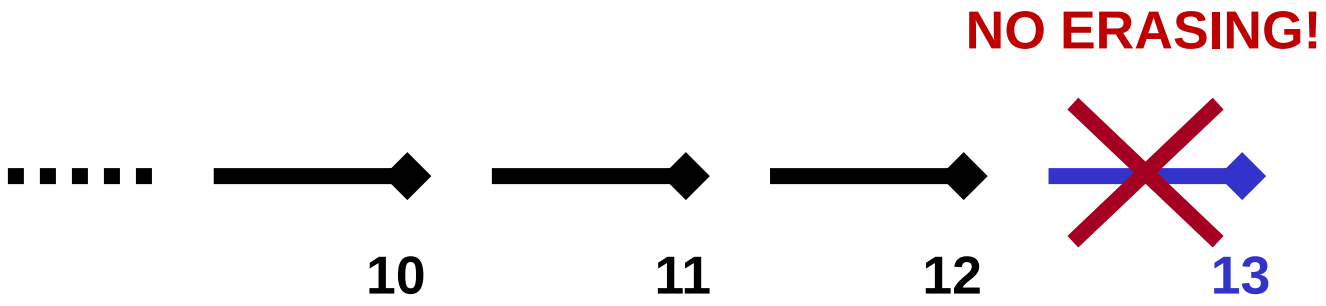
revision 13

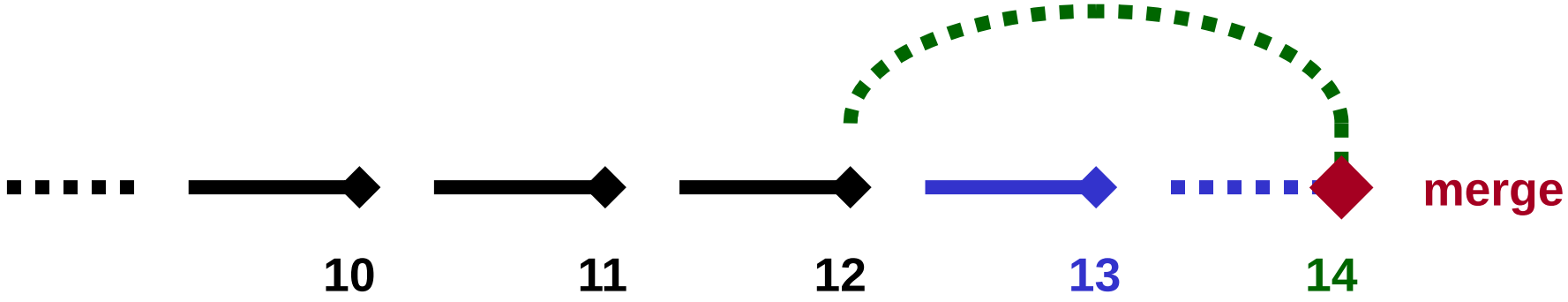


revision 13

I want to reverse!

revision 13


NO ERASING!
10
11
12
13


merge
10
11
12
13
14

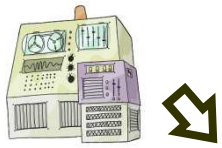
```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge
```

```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r
```

```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r HEAD:12
```

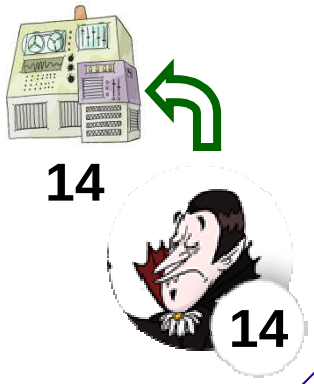
```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r HEAD:12 moons.txt
```

```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r HEAD:12 moons.txt
-- Reverse-merging r13 into 'moons.txt'
U  moons.txt
$
```



```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r HEAD:12 moons.txt
-- Reverse-merging r13 into 'moons.txt'
U  moons.txt
$ svn diff
...
$
```

```
$ cd /cygwin/home/dracula/monsters/jupiter
$ svn merge -r HEAD:12 moons.txt
-- Reverse-merging r13 into 'moons.txt'
U  moons.txt
$ svn diff
...
$ svn commit -m "Alright, no commas."
Sending        jupiter/moons.txt
Transmitting file data .
Committed revision 14.
```

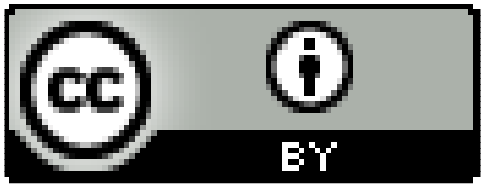


`svn co`	check out repository
`svn log`	view change history
`svn add`	add file
`svn commit`	commit file
`svn update`	update to most recent revision
`svn diff`	view differences between revisions
`svn merge`	merge revisions

created by

Ainsley Lawson

October 2010



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