PloneSVN

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The Future

- Subversion Overview
- Integration Defined
- SVN Architecture
- PloneSVN Traversal
- State Management
- Caveats
- Futures

What is Subversion

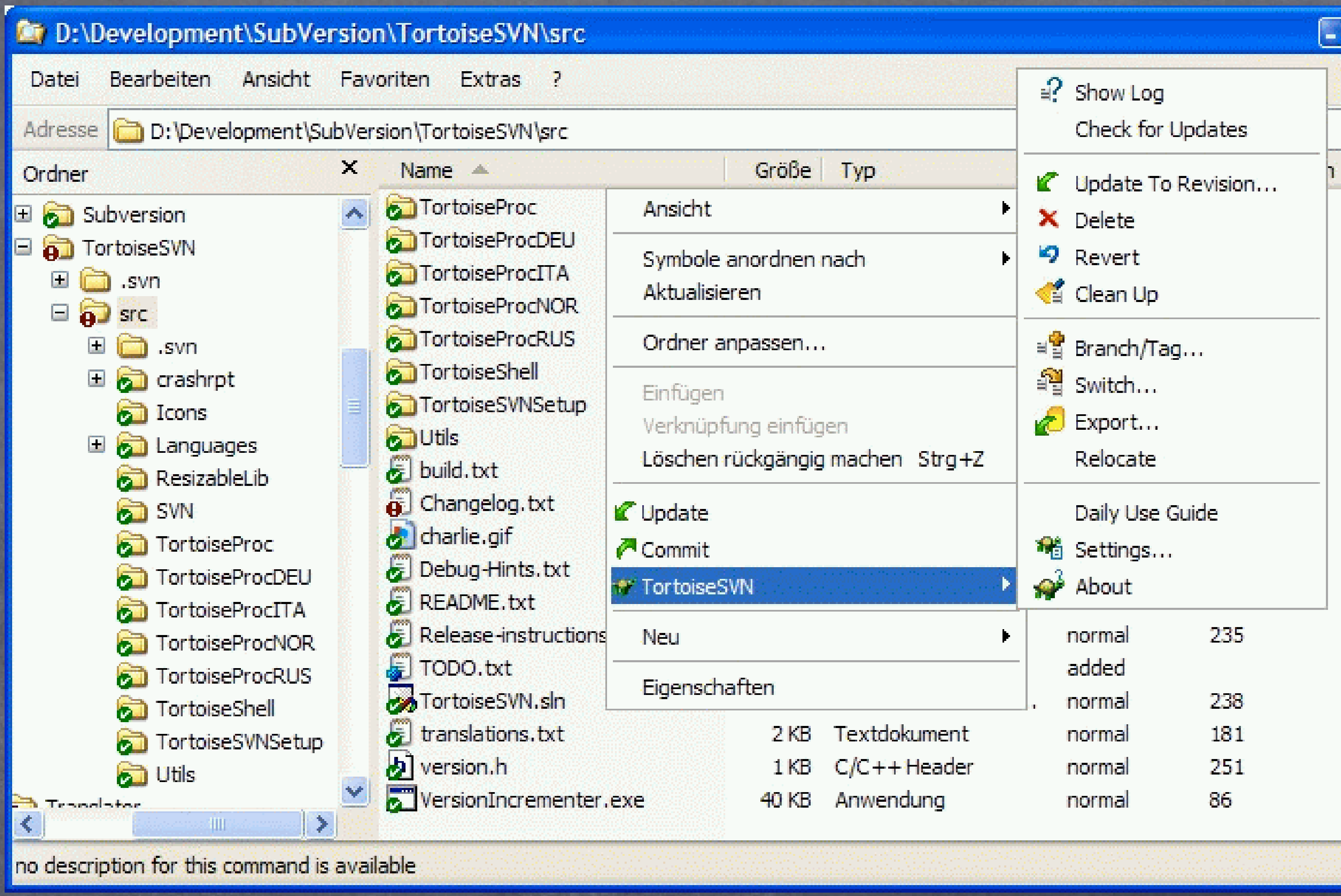
- A Version Control System, similiar to cvs
- Directories, renames, and file meta-data are versioned.
- Transactional, ie. Commits are truly atomic.
- Apache as network server, WebDAV/DeltaV for protocol
- Efficient handling of binary files
- Natively client/server, layered library design

- Apache as network server, WebDAV/DeltaV for protocol

Integration Defined

Goals

- Give Content Editors the Interface they want.
- Content Editors get to use their preferred Tools.
- Content Editors see a file system view of content.
- Content lives in svn.
- Content Management via Plone.
- Another Plone Paradigm Shift thanks to Ben :-)



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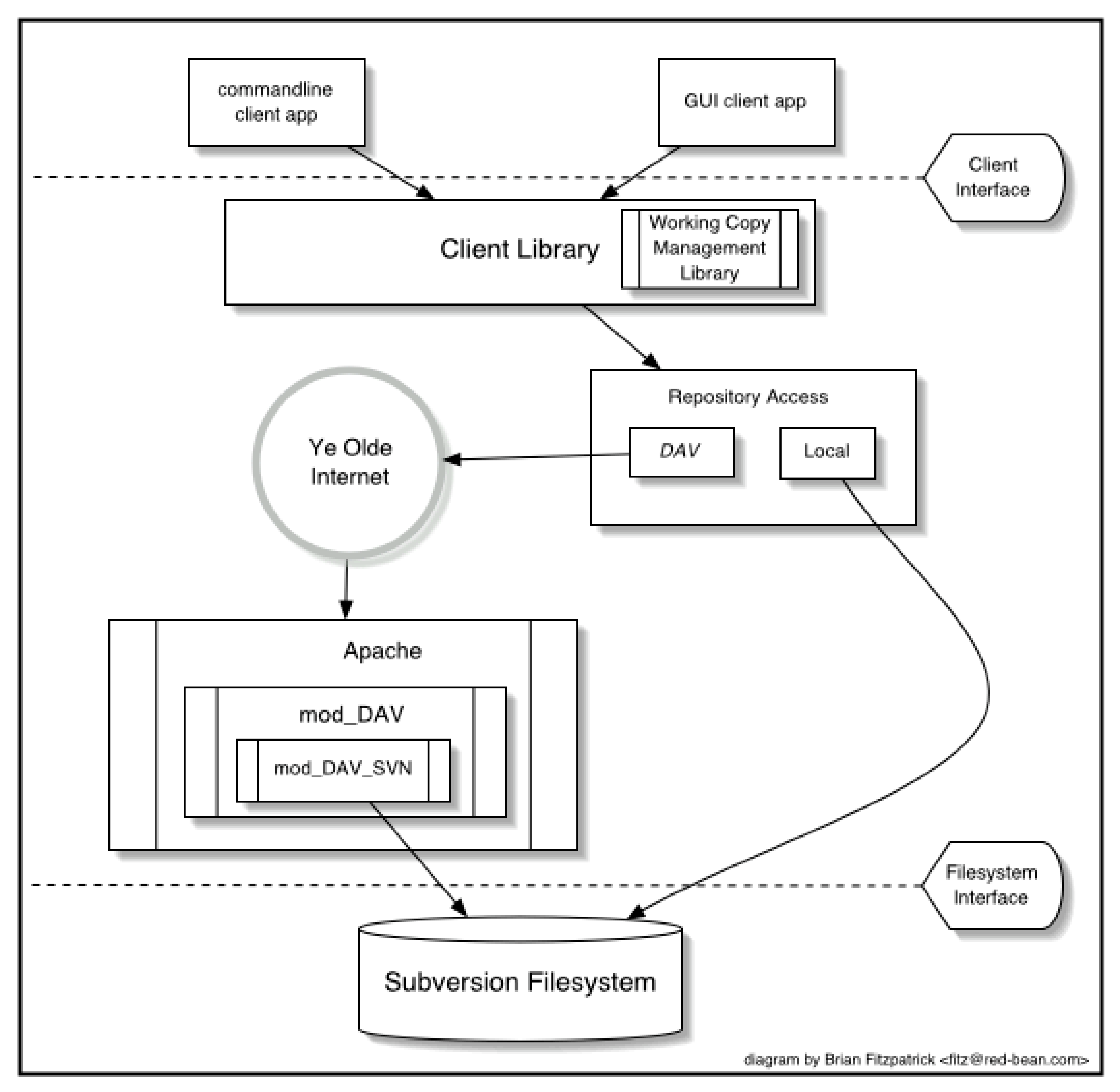
Subversion Layers



Subversion Layers (Cont).

- Plonesvn targets integration w/ svn at versioned filesystem layer.

Pros

- Implementation doesn’t need to deal with working copy management.
- No network overhead.

Cons

- Repositories must be located on the same physical machine/ filesystem.

External Content Integration

Proxy/Stub Approach

- Proxy objects live in zodb as content.
- The proxy object is uniquely associated with an external resource.
- The proxy object has the reponsiblity of querying their external resource for data when active.

Examples

- Archetypes SQLStorage, ExtFile.

Cons

- Proxies ***may*** represent clutter to zodb.
- Synchronization w/ changes to external resource.

External Content Integration

Mount Point Approach

- A single object acts a gateway to retrieve non persistent objects.
- Integrates w/ Zope Object Publishing to map urls to external resources.
-

Examples

- APE, LocalFS
-

Cons

- Object Creation Overhead
- Storing State

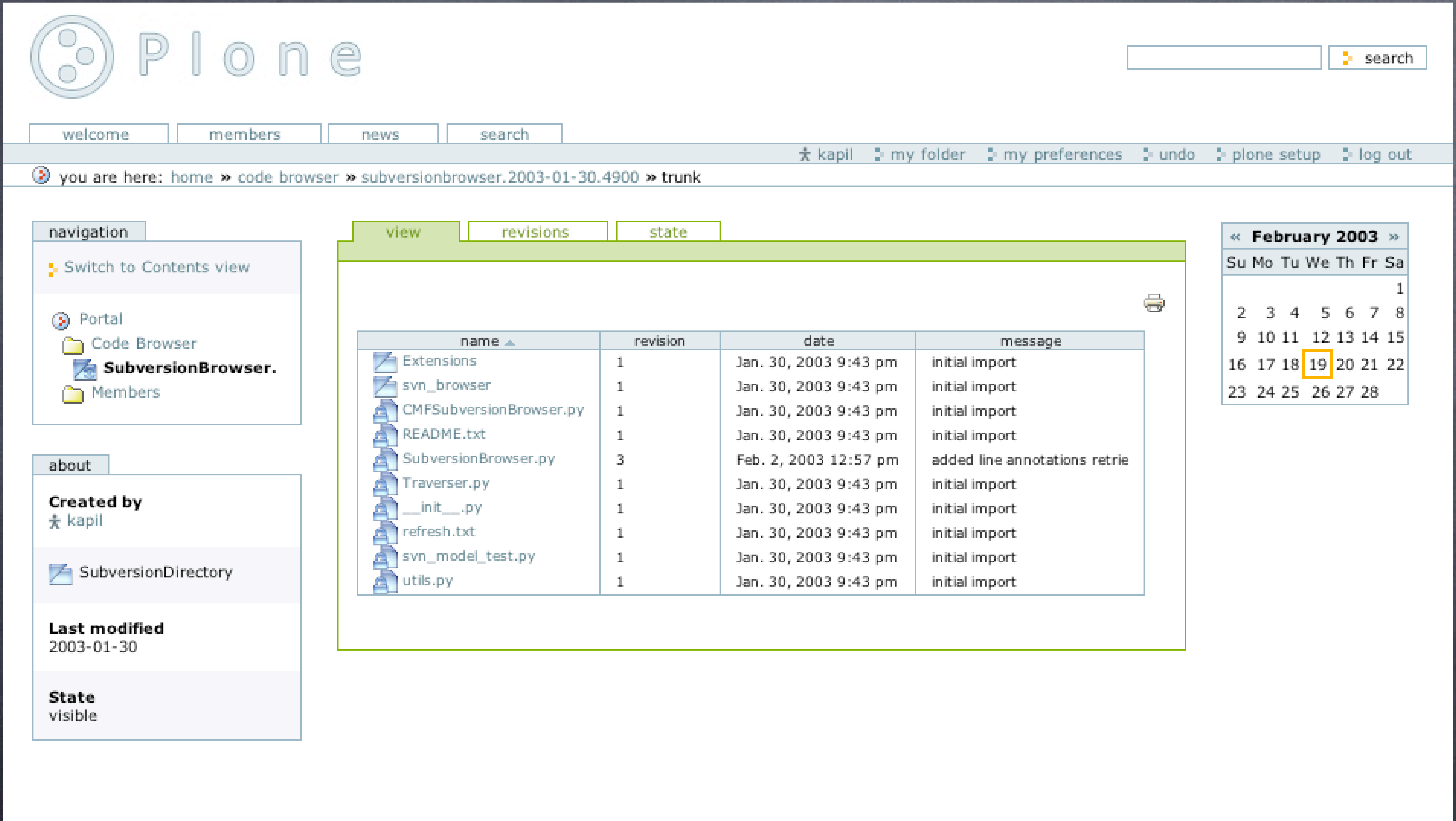
Mapping a URL to SVN

http://hyenas.com/svn/content/zebra.doc

at the svn mount point in the zodb, the traversal hooks are invoked to retrieve the subversion node from subversion and return it to the publishing process.

NATIONALGEOGRAPHIC.COM

Mapping a URL to SVN



you are here: home » code browser » subversionbrowser.2003-01-30.4900 » trunk

name	revision	date	message
Extensions	1	Jan. 30, 2003 9:43 pm	initial import
svn_browser	1	Jan. 30, 2003 9:43 pm	initial import
CMFSubversionBrowser.py	1	Jan. 30, 2003 9:43 pm	initial import
README.txt	1	Jan. 30, 2003 9:43 pm	initial import
SubversionBrowser.py	3	Feb. 2, 2003 12:57 pm	added line annotations retrie
Traverser.py	1	Jan. 30, 2003 9:43 pm	initial import
__init__.py	1	Jan. 30, 2003 9:43 pm	initial import
refresh.txt	1	Jan. 30, 2003 9:43 pm	initial import
svn_model_test.py	1	Jan. 30, 2003 9:43 pm	initial import
utils.py	1	Jan. 30, 2003 9:43 pm	initial import

about

Created by
kapil

SubversionDirectory

Last modified
2003-01-30

State
visible

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

State Management

- opaque attributes
- serialization and transaction integration.
- automatic deserialization on retrieval.

State Synchronization

- Hook Script, communicate via XML-RPC
- Access Point
- Events

Caveats

- DAV Locks & Transaction Integration and Client Interaction.
- Copy Semantics

Future Work

- Content Transformation
- Offline Synchronization
- Mime Type 2 Content Mapping (private CTR)
- Remote Repositories
- ???

Resources

- Mailing List https://lists.objectrealms.net/
- Code https://svn.objectrealms.net/svn/vault/plonesvn
- https://svn.objectrealms.net/svn/vault/cmfsubversionbrowser
- collector and wiki to come.

Q & A