Design Notes

The following are links to various notes about the design and implementation of various Subversion features and enhancements.

- **Authz Improvements** - about the authzperf branch
- **LocalMoves** - functional design for client-side move and rename tracking
- **ResolvingIncomingMoves** - notes about resolving incoming moves with the new conflict resolver
- **Editor, version 2 (Ev2)** - Updating the way we transmit difference within Subversion
- **MoveDev How to Add Moves to Svn**
  - MoveDev Ev2MovesDesign Ev2 proposal
  - MoveDev Ev15MovesDesign Ev1+ proposal
  - MoveDev MoveTrackingUpdateEditor
  - MoveDev MovesOverDeltaEditor
  - MoveDev ApiChangesForMove
  - MoveDev MovesInFSFS
  - MoveDev MovePhase1Plan
- **EncryptedPasswordStorage** - (forced and/or turn-key) encrypted storage of cached client-side authentication credentials
  - Also see **MasterPassphrase**
- **FS2** - Thoughts about a re-designed and flexible backend storage system, to replace both libsvn_fs_base and libsvn_fs
  - **StarDelta** is a potential low-level algorithm to be used in the FSFS2 backend
- **InheritedProperties** - node properties that apply to descendants too
- **In-Repo Authz** - Storing Authz files inside a repository
- **MergeinfoCommand** - 'svn merginfo' shows a summary diagram by default
- **MergeLimits** - thoughts on the nature of the merge use-case
- **MtimePreservation** - storing "modified time" for files in a versioned property
- **MultiLayerMoves** - recording multiple layers of moves in the working copy
- **NodesOperations** - understanding WCNG NODES table
- **Repository Dictated Configuration** - server-dictated configuration via inheritable props
- **SavePoints** - implementation of stored working copy state to allow rolling back to such a state, stash, and local commits.
- **SymmetricMerge** - understanding sync, reintegrate, catch-up, cherry-pick merges
- **UnicodeNormalization** - managing differences in Unicode character composition in paths and mergeinfo

Not Yet Written

- **BetterExternals** - ideas for something as useful but less crufty

Abandoned

Designs that were discussed but never implemented. These remain here for archival purposes.

- **ServerDictatedConfiguration** - server-dictated configuration of client-side behavior (abandoned in favor of Repository Dictated Configuration)