VERSIONDEFS

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Medley

VERSIONDEFS provides basic tools for working with (but keeping separate) the different definitions of an item on different Medley file-versions. A version is specified as a positive or negative integer. The positive integers count from the oldest file (version 1 is the oldest, version 2 is the second oldest) while negative integers count down from the most recent version (-1 is the newest, -2 is the next newest, etc.). The atoms <code>oldest, FIRST, F</code> are synonyms for 1, <code>NEWEST, N</code> and the number 0 are synonyms for -1. (With a little more work, a version could be specified as before or after a particular date.)

Currently this operates on files that already exist in the local environment. The shell utility scripts/restore-versions.sh can be used to recreate locally the medley-versions of files in a remote git repository, in the order of their commits. Those files could then be specified by their ordinal numbers. A further extension would be to use git branch, commit, or PR identifiers to refer to specific file versions.

(VERSIONP X)

Returns the integer form of the version if x denotes a version, otherwise NIL.

(FINDFILEVERSION FILE VERSION DIRLIST NOERROR) [Function] Returns the full directory name of the specified VERSION of FILE found somewhere in DIRLIST (Or DIRECTORIES). If NOERROR, returns NIL if such a file does not exist, otherwise causes an error.

(GETVINFO NAME TYPE FILE VERSION DIRLIST)

Retrieves the definition of NAME as TYPE on the specified VERSION of FILE, returning a 3-element list (VNAME TYPE DEF). VNAME is an annoated version of NAME that has the actual version of the file from which the definition was obtained. For example, if VERSIONDEFS; 3 is the oldest version of that file, the VNAME returned for (GETVINFO 'VERSIONP NIL NIL 1) will be GETVINFO; 3.

VERSIONDEFS includes three simple editing applications of these version primitives. These open SEDIT windows on versioned definitions without overwriting or otherwise confusing or interfering with the current in-memory definition. That is because the version-definitions are associated with the annotated VNAME's and are not actually install in the environment.

(EDV NAME TYPE FILE VERSION DIRLIST) [Nlambda no-spread Function] A generic version-editor akin to ED: brings up the definition from the version-file of NAME as TYPE. Expressions can be examined and copied, and even modified--but the modifications will fall on the floor.

(DFV NAME FILE VERSION DIRLIST) Calls Edv with NIL as the type, akin to DF. [Nlambda-nospread Function]

[Function]

^r. [Function]