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# Chapter 1

## Parsley Manual

### 1.1 License

parsley is written by Josef Hahn under the terms of the GPLv3.

Please read the `LICENSE` file from the package and the [Dependencies](#) section for included third-party stuff.

### 1.2 About

Parsley keeps a configured set of places in file systems in sync on a regular basis.

Those file systems can live on remote machines and become mounted by means of sshfs at runtime automatically.

Features:

- Keeps local and ssh file systems in sync
- Has a mechanism for metadata synchronization (tags, rating, ...)
- Robust infrastructure with working retry and error handling
- Alternative modes
  - move to sink mode: always moves all files from the source to a sink and so keep the source empty.
- Flexible and extensible api

Are you currently reading from another source than the homepage? Are you in doubt if that place is up-to-date? If yes, you should visit <https://ginger.ws/wiki/pino/projs/parsley> and check that. You are currently reading the manual for version 1.0.420.

### 1.3 Maturity

In this version, the state of parsley is considered as production-stable.

## Dependencies

There are external parts which are used by parsley. Many thanks to the projects and all participants.

Python 3.4 *required*

python-tk *recommended (maybe has alternatives)*

Typical Linux Desktop *recommended (maybe has alternatives)*

sshfs *optional*

python3-pyxattr *optional*

banner image *included*: `_meta/homepage_bannerimage.png`; license [CC BY-SA 3.0](#); copied from [here](#).

## 1.4 User Documentation

### 1.4.1 Using parsley

At first, install parsley. Either use an installation package which fits to your system or download the source package, unpack it to somewhere and install all the requirements mentioned in the [Dependencies](#).

Once you have installed parsley, two executables are available:

- `parsley_gui`: A very minimalist graphical tool which uses parsley just by mouse without doing any further configuration.
- `parsley`: The parsley application. It is a command line tool with some options, which parses a parsley configuration file and executes the syncs as defined there.

The former one is often added to the start menu of your operating system after installation. However, it only fulfills very basic needs and is not recommended for productive use. Instead, `parsley` should be called by a cronjob every 3 minutes or so. Add such a line to your crontab:

```
*/3 * * * * /usr/lib/parsley/parsley.py --config /home/foo/.parsleycfg --sync ALL --datadir /home/foo/.parsley
```

This implies two things:

- Parsley can use `/home/foo/.parsleydata` for storing permanent runtime data. You should create this directory.
- Parsley uses `/home/foo/.parsleycfg` as configuration file. Create this file with this content:

```
syncs.append(
    InFsSync(
        LocalFilesystem(
            TrashRemove(),
                                # leave files in a trash for some days instead
                                # of hard removing
            path="/home/foo/mymusic",
                                # local path
            name="my pc"),
        SshfsFilesystem(
            TrashRemove(),
            sstarget="foo@fileserver",
                                # ssh address of the remote side
            path="/mnt/raid/music",
                                # path on the remote side
            idfile="/home/foo/.parsleysshloginkey",
                                # ssh identity file for authentication (must be
                                # passwordless)
            name="file server"),
        DefaultSync(),
                                # a normal sync
        Logging(logupdate=True, logcreate=True, logremove=True),
        name="music sync",
        interval=timedelta(hours=4)
                                # synchronize every 4 hours
    ))

logging.append(Logger(loggerout=FilestreamLoggerout(filename="/tmp/parsleylog"),
    formatter=PlaintextLogformat(),
    minseverity=Severity.DEBUGVERBOSE, maxseverity=Severity.ERROR))
```

This configures logging to a log file and one synchronization configuration.



For more sophisticated configurations, you currently have to take a look at [parsley.sync.infs](#) in the developer documentation. I admit, this is rather technical :-/ If you want to override some parts of the plain default behavior, see [parsley.sync.infs.aspect.Aspect](#) and [parsley.sync.infs.filesystem.Filesystem](#).

## 1.5 Packages

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<a href="#">parsley.tools.common</a>	
Tools for very common jobs	37
<a href="#">parsley.tools.networking</a>	
Parsley networking features	37
<a href="#">parsley.tools.pathacceptors</a>	
Default implementation for path acceptors as e.g	38
<a href="#">parsley.tools.sshxattrproxy</a>	
SSH remote proxy for exchange of file metadata	38
<a href="#">parsley_gui</a>	
Starts <a href="#">parsley.gui.main</a>	39

## 1.6 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

<a href="#">parsley.sync.infs.aspect.metadata._Metadata</a>	39
<a href="#">parsley.sync.infs.aspect.metadata._MyTaskData</a>	40
<a href="#">parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy</a>	41
<a href="#">parsley.sync.infs.common.ActionControl</a>	42
<a href="#">parsley.sync.infs.aspect.Aspect</a>	47
<a href="#">parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor</a>	44
<a href="#">parsley.sync.infs.aspect.collectinformation.CollectInformation</a>	51
<a href="#">parsley.sync.infs.aspect.conflicts.DetectTypeConflicts</a>	62
<a href="#">parsley.sync.infs.aspect.defaultiteration.DefaultIteration</a>	55
<a href="#">parsley.sync.infs.aspect.defaults.DefaultBase</a>	54
<a href="#">parsley.sync.infs.aspect.defaults.DefaultSync</a>	57
<a href="#">parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink</a>	97
<a href="#">parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource</a>	98
<a href="#">parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision</a>	60
<a href="#">parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime</a>	65
<a href="#">parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory</a>	66
<a href="#">parsley.sync.infs.aspect.logging.Logging</a>	84
<a href="#">parsley.sync.infs.aspect.metadata.MetadataSynchronization</a>	87
<a href="#">parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow</a>	89
<a href="#">parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory</a>	53
<a href="#">parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive</a>	93
<a href="#">parsley.sync.infs.aspect.permissions.ApplyPermissions</a>	46
<a href="#">parsley.sync.infs.aspect.remove.CleanupTrashBin</a>	50
<a href="#">parsley.sync.infs.aspect.remove.DefaultRemove</a>	56
<a href="#">parsley.sync.infs.aspect.remove.DefaultRemoveDirs</a>	57
<a href="#">parsley.sync.infs.aspect.remove.DetectRemoval</a>	61
<a href="#">parsley.sync.infs.aspect.remove.RemoveOrphanedDirs</a>	99
<a href="#">parsley.sync.infs.aspect.remove.TrashRemove</a>	119
<a href="#">parsley.sync.infs.aspect.revisiontracking.RevisionTracking</a>	100
<a href="#">parsley.sync.infs.aspect.update.DefaultUpdateFile</a>	58

parsley.sync.infs.aspect.update.DefaultUpdateLink . . . . .	59
parsley.test.test18.SleepWhileBeginning . . . . .	103
parsley.sync.infs.entrylist.CombinedEntryList . . . . .	52
parsley.sync.infs.common.ConflictResolution . . . . .	53
parsley.test.testhelper_ssh.Disturbator . . . . .	63
parsley.sync.infs.common.ElectionControl . . . . .	64
parsley.engine.Engine . . . . .	66
parsley.sync.infs.entrylist.EntryList . . . . .	67
parsley.sync.infs.filesystem.Filesystem . . . . .	70
Frame	
parsley.gui.main.App . . . . .	43
parsley.gui.main.App.FilesystemFrame . . . . .	72
parsley.logger.formatter.Logformat . . . . .	81
parsley.logger.formatter.htmllogformat.HtmlLogformat . . . . .	73
parsley.logger.formatter.plaintextlogformat.PlaintextLogformat . . . . .	94
parsley.logger.logger.Logger . . . . .	82
parsley.logger.loggerout.Loggerout . . . . .	83
parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout . . . . .	68
parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout . . . . .	69
parsley.tools.sshxattrproxy.Mainloop . . . . .	86
parsley.test.testhelper_metadata.Metadata . . . . .	87
parsley.preparations.Preparation . . . . .	95
parsley.preparations.mountpreparation.MountPreparation . . . . .	91
parsley.preparations.sshfsmountpreparation.SshfsMountPreparation . . . . .	106
parsley.test.testhelper_ssh.RateLimiter . . . . .	98
parsley.runtime.returnvalue.ReturnValue . . . . .	99
parsley.runtime.runtime.RuntimeData . . . . .	101
parsley.logger.severity.Severity . . . . .	103
parsley.test.test15.State . . . . .	109
parsley.test.test11.State . . . . .	110
parsley.sync.abstract.sync.Sync . . . . .	110
parsley.sync.infs.InFsSync . . . . .	74
parsley.sync.infs.syncmachine.SyncHooks . . . . .	112
parsley.sync.infs.syncmachine.SyncMachine . . . . .	115
parsley.test.testhelper_ssh.TemporarySshFs . . . . .	118
Thread	
parsley.test.test16.ChangerThread . . . . .	49
parsley.runtime.warnhelper.WarnHelper . . . . .	119
Filesystem	
parsley.sync.infs.filesystem.local.LocalFilesystem . . . . .	79
parsley.sync.infs.filesystem.sshfs.SshfsFilesystem . . . . .	104

## 1.7 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

<a href="#">parsley.sync.infs.aspect.metadata._Metadata</a> . . . . .	39
<a href="#">parsley.sync.infs.aspect.metadata._MyTaskData</a> . . . . .	40
<a href="#">parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy</a> . . . . .	41
<a href="#">parsley.sync.infs.common.ActionControl</a> . . . . .	42
<a href="#">parsley.gui.main.App</a>	
A very minimalist graphical interface for creating a parsley configuration (in a very limited manner)	43
<a href="#">parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor</a>	
Filters out directories which should be excluded from syncing . . . . .	44
<a href="#">parsley.sync.infs.aspect.permissions.ApplyPermissions</a>	
Applies the specified file system permissions to all entries processed by parsley . . . . .	46

<a href="#">parsley.sync.infs.aspect.Aspect</a>	
Abstract base class for behavior implementations which build the actual behavior of a <a href="#">parsley.-sync.infs.InFsSync</a> synchronization implementation	47
<a href="#">parsley.test.test16.ChangerThread</a>	49
<a href="#">parsley.sync.infs.aspect.remove.CleanupTrashBin</a>	
Cleans up the trash bin	50
<a href="#">parsley.sync.infs.aspect.collectinformation.CollectInformation</a>	
Used for populating the machine.filelists lists	51
<a href="#">parsley.sync.infs.entrylist.CombinedEntryList</a>	52
<a href="#">parsley.sync.infs.common.ConflictResolution</a>	53
<a href="#">parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory</a>	
Takes care that the parsley control directory exists	53
<a href="#">parsley.sync.infs.aspect.defaults.DefaultBase</a>	
Basic part of default behavior for a plain synchronization	54
<a href="#">parsley.sync.infs.aspect.defaultiteration.DefaultIteration</a>	
Lists child elements via the filesystem	55
<a href="#">parsley.sync.infs.aspect.remove.DefaultRemove</a>	
Default removal strategy without a trashbin	56
<a href="#">parsley.sync.infs.aspect.remove.DefaultRemoveDirs</a>	
Removes directories via the filesystem	57
<a href="#">parsley.sync.infs.aspect.defaults.DefaultSync</a>	
Default behavior for a plain synchronization	57
<a href="#">parsley.sync.infs.aspect.update.DefaultUpdateFile</a>	
Default handling for updating files	58
<a href="#">parsley.sync.infs.aspect.update.DefaultUpdateLink</a>	
Default handling for updating links	59
<a href="#">parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision</a>	
Handles filesystems with mtime precision only on level of seconds	60
<a href="#">parsley.sync.infs.aspect.remove.DetectRemoval</a>	
Detects removed entries	61
<a href="#">parsley.sync.infs.aspect.conflicts.DetectTypeConflicts</a>	
Handles file conflicts between two filesystems (file vs directory, for example)	62
<a href="#">parsley.test.testhelper_ssh.Disturbator</a>	63
<a href="#">parsley.sync.infs.common.ElectionControl</a>	64
<a href="#">parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime</a>	
Elects a master file by mtime	65
<a href="#">parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory</a>	
Elects a master link by changes in history	66
<a href="#">parsley.engine.Engine</a>	
The parsley engine	66
<a href="#">parsley.sync.infs.entrylist.EntryList</a>	67
<a href="#">parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout</a>	68
<a href="#">parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout</a>	69
<a href="#">parsley.sync.infs.filesystem.Filesystem</a>	70
<a href="#">parsley.gui.main.App.FilesystemFrame</a>	72
<a href="#">parsley.logger.formatter.htmllogformat.HtmlLogformat</a>	73
<a href="#">parsley.sync.infs.InFsSync</a>	
The included powerful synchronization implementation	74
<a href="#">parsley.sync.infs.filesystem.local.LocalFilesystem</a>	79
<a href="#">parsley.logger.formatter.Logformat</a>	
Abstract base class for log message formatters (html, plain, ...)	81
<a href="#">parsley.logger.logger.Logger</a>	
Used by higher layers for logging messages	82
<a href="#">parsley.logger.loggerout.Loggerout</a>	
Abstract base class for log message sinks	83
<a href="#">parsley.sync.infs.aspect.logging.Logging</a>	
Switchable logging by situation	84

<a href="#">parsley.tools.sshxattrproxy.Mainloop</a>	
This program is not directly used in the process of the parsley engine but is copied to a remote system and controlled via an ssh session as a proxy for doing some tasks on this remote system, which cannot be done via an sshfs mount	86
<a href="#">parsley.test.testhelper_metadata.Metadata</a>	87
<a href="#">parsley.sync.infs.aspect.metadata.MetadataSynchronization</a>	
Synchronizes metadata without a shadow storage (typical for the workstations)	87
<a href="#">parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow</a>	
Synchronizes metadata with a shadow storage (typical for the file server)	89
<a href="#">parsley.preparations.mountpreparation.MountPreparation</a>	
Mounts filesystems to a mountpoint	91
<a href="#">parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive</a>	93
<a href="#">parsley.logger.formatter.plaintextlogformat.PlaintextLogformat</a>	94
<a href="#">parsley.preparations.Preparation</a>	
Abstract base class for all logic, which does preparation work for the actual synchronization run in advance or afterwards (like mounting filesystems, cleaning up stuff)	95
<a href="#">parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink</a>	
Default behavior for a sink filesystem in a pull-and-purge configuration	97
<a href="#">parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource</a>	
Default behavior for a source filesystem in a pull-and-purge configuration	98
<a href="#">parsley.test.testhelper_ssh.RateLimiter</a>	98
<a href="#">parsley.sync.infs.aspect.remove.RemoveOrphanedDirs</a>	
Removes empty orphaned directories	99
<a href="#">parsley.runtime.returnvalue.ReturnValue</a>	
Flags which describe the success of a synchronization run	99
<a href="#">parsley.sync.infs.aspect.revisiontracking.RevisionTracking</a>	
Keeps all versions of all files which parsley has seen into a revision storage in the control directory	100
<a href="#">parsley.runtime.runtime.RuntimeData</a>	
Runtime data for synchronization runs used by the parsley engine and some higher layers	101
<a href="#">parsley.logger.severity.Severity</a>	
Enumeration for the severity of log messages	103
<a href="#">parsley.test.test18.SleepWhileBeginning</a>	103
<a href="#">parsley.sync.infs.filesystem.sshfs.SshfsFilesystem</a>	104
<a href="#">parsley.preparations.sshfsmountpreparation.SshfsMountPreparation</a>	
Mounts remote filesystems with sshfs	106
<a href="#">parsley.test.test15.State</a>	109
<a href="#">parsley.test.test11.State</a>	110
<a href="#">parsley.sync.abstract.sync.Sync</a>	
Abstract base class for a synchronization implementation	110
<a href="#">parsley.sync.infs.syncmachine.SyncHooks</a>	112
<a href="#">parsley.sync.infs.syncmachine.SyncMachine</a>	
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<a href="#">parsley.test.testhelper_ssh.TemporarySshFs</a>	118
<a href="#">parsley.sync.infs.aspect.remove.TrashRemove</a>	
Removal strategy with a trashbin	119
<a href="#">parsley.runtime.warnhelper.WarnHelper</a>	
Used internally for logging warnings when a synchronization did not run successfully since a certain timespan	119

## 1.8 parsley Namespace Reference

Parsley.

### Namespaces

- [engine](#)

*The engine which abstractly executes arbitrary synchronization tasks.*

- [gui](#)
- [logger](#)

*Logging messages.*

- [preparations](#)

*Pluggable initialization steps which can be wrapped around task executions by adding them to the task configuration.*

- [runtime](#)

*Parsley core parts.*

- [sync](#)

*Synchronization implementations.*

- [test](#)

*Tests (unit tests, system tests, ...).*

- [tools](#)

*Auxiliary stuff, (at least mostly) decoupled from parsley infrastructure.*

## Functions

- def [check4debugtest](#)

*Just a helping hand for testing/debugging parsley from within the IDE, but not really needed for a release version.*

### 1.8.1 Detailed Description

Parsley. Very roughly, parsley consists of

- An engine which can execute arbitrary things in [parsley.engine](#)
- An abstract base implementation for synchronization tasks in [parsley.sync.abstract](#)
- A powerful synchronization task implementation in [parsley.sync.infs.InFsSync](#)
- Some helping hands at different places like [parsley.logger](#), [parsley.preparations](#) or [parsley.tools](#)
- A boring gui for the first few minutes in [parsley.gui](#)

### 1.8.2 Function Documentation

#### 1.8.2.1 def parsley.check4debugtest ( )

Just a helping hand for testing/debugging parsley from within the IDE, but not really needed for a release version.

## 1.9 parsley.engine Namespace Reference

The engine which abstractly executes arbitrary synchronization tasks.

### Classes

- class [Engine](#)

*The parsley engine.*

## Functions

- `def _cmdline`
- `def lock`  
*Locks a lockfile for synchronization.*
- `def unlock`  
*Unlocks a lockfile.*
- `def main`  
*Main method for execution from command line.*

### 1.9.1 Detailed Description

The engine which abstractly executes arbitrary synchronization tasks.

### 1.9.2 Function Documentation

1.9.2.1 `def parsley.engine._cmdline ( args ) [private]`

1.9.2.2 `def parsley.engine.lock ( fle, lockpid = -1 )`

Locks a lockfile for synchronization.

1.9.2.3 `def parsley.engine.main ( )`

Main method for execution from command line.

1.9.2.4 `def parsley.engine.unlock ( fle )`

Unlocks a lockfile.

## 1.10 parsley.gui Namespace Reference

### Namespaces

- `main`  
*The main gui for parsley (provides just common stuff for the beginning).*

## 1.11 parsley.gui.main Namespace Reference

The main gui for parsley (provides just common stuff for the beginning).

### Classes

- class `App`  
*A very minimalist graphical interface for creating a parsley configuration (in a very limited manner).*

### Functions

- `def main`



## Variables

- tuple [home](#) = os.path.expanduser("~")

### 1.11.1 Detailed Description

The main gui for parsley (provides just common stuff for the beginning).

### 1.11.2 Function Documentation

1.11.2.1 `def parsley.gui.main.main ( )`

### 1.11.3 Variable Documentation

1.11.3.1 `tuple parsley.gui.main.home = os.path.expanduser("~")`

## 1.12 parsley.logger Namespace Reference

Logging messages.

## Namespaces

- [formatter](#)  
*Transforming log message structures to strings.*
- [logger](#)  
*High level interface.*
- [loggerout](#)  
*Output destinations for log message strings.*
- [severity](#)

### 1.12.1 Detailed Description

Logging messages.

## 1.13 parsley.logger.formatter Namespace Reference

Transforming log message structures to strings.

## Namespaces

- [htmllogformat](#)
- [plaintextlogformat](#)

## Classes

- class [Logformat](#)  
*Abstract base class for log message formatters (html, plain, ...)*

### 1.13.1 Detailed Description

Transforming log message structures to strings.

## 1.14 `parsley.logger.formatter.htmllogformat` Namespace Reference

### Classes

- class [HtmlLogformat](#)

## 1.15 `parsley.logger.formatter.plaintextlogformat` Namespace Reference

### Classes

- class [PlaintextLogformat](#)

## 1.16 `parsley.logger.logger` Namespace Reference

High level interface.

### Classes

- class [Logger](#)  
*Used by higher layers for logging messages.*

### 1.16.1 Detailed Description

High level interface.

## 1.17 `parsley.logger.loggerout` Namespace Reference

Output destinations for log message strings.

### Namespaces

- [externalprogramloggerout](#)
- [filestreamloggerout](#)

### Classes

- class [Loggerout](#)  
*Abstract base class for log message sinks.*

### 1.17.1 Detailed Description

Output destinations for log message strings.

## 1.18 `parsley.logger.loggerout.externalprogramloggerout` Namespace Reference

### Classes

- class [ExternalProgramLoggerout](#)

## 1.19 `parsley.logger.loggerout.filestreamloggerout` Namespace Reference

### Classes

- class [FilestreamLoggerout](#)

## 1.20 `parsley.logger.severity` Namespace Reference

### Classes

- class [Severity](#)

*Enumeration for the severity of log messages.*

## 1.21 `parsley.preparations` Namespace Reference

Pluggable initialization steps which can be wrapped around task executions by adding them to the task configuration.

### Namespaces

- [mountpreparation](#)
- [sshfsmountpreparation](#)

### Classes

- class [Preparation](#)

*Abstract base class for all logic, which does preparation work for the actual synchronization run in advance or afterwards (like mounting filesystems, cleaning up stuff).*

### 1.21.1 Detailed Description

Pluggable initialization steps which can be wrapped around task executions by adding them to the task configuration. Implement custom preparations by subclassing [parsley.preparations.Preparation](#).

## 1.22 `parsley.preparations.mountpreparation` Namespace Reference

### Classes

- class [MountPreparation](#)

*Mounts filesystems to a mountpoint.*

## 1.23 `parsley.preparations.sshfsmountpreparation` Namespace Reference

### Classes

- class [SshfsMountPreparation](#)  
*Mounts remote filesystems with sshfs.*

## 1.24 `parsley.runtime` Namespace Reference

Parsley core parts.

### Namespaces

- [commonimports](#)  
*Imports everything which is typically used by the end user in a parsley config file.*
- [projectinformations](#)
- [returnvalue](#)  
*Task execution return values.*
- [runtime](#)  
*The implementation for some parsley core features.*
- [warnhelper](#)  
*Helps invoking warning messages after some time of sync problems.*

### 1.24.1 Detailed Description

Parsley core parts.

## 1.25 `parsley.runtime.commonimports` Namespace Reference

Imports everything which is typically used by the end user in a parsley config file.

### 1.25.1 Detailed Description

Imports everything which is typically used by the end user in a parsley config file.

## 1.26 `parsley.runtime.projectinformations` Namespace Reference

### Variables

- string [version](#) = '1.0.420'
- string [homepage](#) = 'https://ginger.ws/wiki/pino/projs/parsley'

### 1.26.1 Variable Documentation

1.26.1.1 string parsley.runtime.projectinformations.homepage = 'https://ginger.ws/wiki/pino/projs/parsley'

1.26.1.2 string parsley.runtime.projectinformations.version = '1.0.420'

## 1.27 parsley.runtime.returnvalue Namespace Reference

Task execution return values.

### Classes

- class [ReturnValue](#)  
*Flags which describe the success of a synchronization run.*

### 1.27.1 Detailed Description

Task execution return values.

## 1.28 parsley.runtime.runtime Namespace Reference

The implementation for some parsley core features.

### Classes

- class [RuntimeData](#)  
*Runtime data for synchronization runs used by the parsley engine and some higher layers.*

### 1.28.1 Detailed Description

The implementation for some parsley core features.

## 1.29 parsley.runtime.warnhelper Namespace Reference

Helps invoking warning messages after some time of sync problems.

### Classes

- class [WarnHelper](#)  
*Used internally for logging warnings when a synchronization did not run successfully since a certain timespan.*

### 1.29.1 Detailed Description

Helps invoking warning messages after some time of sync problems.

## 1.30 `parsley.sync` Namespace Reference

Synchronization implementations.

### Namespaces

- [abstract](#)  
*Common stuff for synchronization task implementations.*
- [infs](#)  
*The included powerful synchronization implementation.*

### 1.30.1 Detailed Description

Synchronization implementations.

## 1.31 `parsley.sync.abstract` Namespace Reference

Common stuff for synchronization task implementations.

### Namespaces

- [sync](#)

### 1.31.1 Detailed Description

Common stuff for synchronization task implementations.

## 1.32 `parsley.sync.abstract.sync` Namespace Reference

### Classes

- class [Sync](#)  
*Abstract base class for a synchronization implementation.*

## 1.33 `parsley.sync.infs` Namespace Reference

The included powerful synchronization implementation.

### Namespaces

- [aspect](#)  
*Aspect implementations control the behavior of `parsley.sync.infs.InFsSync` configurations.*
- [common](#)  
*Boring data structures.*
- [entrylist](#)  
*Internal in-memory list of entries for one filesystem with (de-)serialization features.*
- [filesystem](#)

*Filesystem* implementations for use with `parsley.sync.infs.InFsSync`.

- `syncmachine`

Some inner parts of the `parsley.sync.infs.InFsSync` implementation, also contains the event hook definitions.

## Classes

- class `InFsSync`

The included powerful synchronization implementation.

### 1.33.1 Detailed Description

The included powerful synchronization implementation.

## 1.34 `parsley.sync.infs.aspect` Namespace Reference

`Aspect` implementations control the behavior of `parsley.sync.infs.InFsSync` configurations.

## Namespaces

- `applypathacceptor`
- `collectinformation`
- `conflicts`
- `defaultiteration`
- `defaults`
- `detectfilesystemmtimeprecision`
- `electmaster`
- `logging`
- `metadata`
- `parsleycontroldir`
- `peekfilesystemalive`
- `permissions`
- `remove`
- `revisiontracking`
- `update`

## Classes

- class `Aspect`

Abstract base class for behavior implementations which build the actual behavior of a `parsley.sync.infs.InFsSync` synchronization implementation.

### 1.34.1 Detailed Description

`Aspect` implementations control the behavior of `parsley.sync.infs.InFsSync` configurations. Each feature should be encapsulated as one subclass of `parsley.sync.infs.aspect.Aspect` which hooks some event handlers into the processing chain.

## 1.35 `parsley.sync.infs.aspect.applypathacceptor` Namespace Reference

### Classes

- class [ApplyPathAcceptor](#)  
*Filters out directories which should be excluded from syncing.*

## 1.36 `parsley.sync.infs.aspect.collectinformation` Namespace Reference

### Classes

- class [CollectInformation](#)  
*Used for populating the `machine.filelists` lists.*

## 1.37 `parsley.sync.infs.aspect.conflicts` Namespace Reference

### Classes

- class [DetectTypeConflicts](#)  
*Handles file conflicts between two filesystems (file vs directory, for example).*

## 1.38 `parsley.sync.infs.aspect.defaultiteration` Namespace Reference

### Classes

- class [DefaultIteration](#)  
*Lists child elements via the filesystem.*

## 1.39 `parsley.sync.infs.aspect.defaults` Namespace Reference

### Classes

- class [DefaultBase](#)  
*Basic part of default behavior for a plain synchronization.*
- class [DefaultSync](#)  
*Default behavior for a plain synchronization.*
- class [PullAndPurgeSyncSource](#)  
*Default behavior for a source filesystem in a pull-and-purge configuration.*
- class [PullAndPurgeSyncSink](#)  
*Default behavior for a sink filesystem in a pull-and-purge configuration.*

## 1.40 `parsley.sync.infs.aspect.detectfilesystemmtimeprecision` Namespace Reference

### Classes

- class [DetectFilesystemMtimePrecision](#)  
*Handles filesystems with mtime precision only on level of seconds.*



## 1.41 parsley.sync.infs.aspect.electmaster Namespace Reference

### Classes

- class [ElectMasterFileByMtime](#)  
*Elects a master file by mtime.*
- class [ElectMasterLinkByTargetHistory](#)  
*Elects a master link by changes in history.*

## 1.42 parsley.sync.infs.aspect.logging Namespace Reference

### Classes

- class [Logging](#)  
*Switchable logging by situation.*

## 1.43 parsley.sync.infs.aspect.metadata Namespace Reference

### Classes

- class [\\_Metadata](#)
- class [\\_MyTaskData](#)
- class [MetadataSynchronization](#)  
*Synchronizes metadata without a shadow storage (typical for the workstations)*
- class [MetadataSynchronizationWithShadow](#)  
*Synchronizes metadata with a shadow storage (typical for the file server)*

## 1.44 parsley.sync.infs.aspect.parsleycontroldir Namespace Reference

### Classes

- class [CreateParsleyControlDirectory](#)  
*Takes care that the parsley control directory exists.*

## 1.45 parsley.sync.infs.aspect.peekfilesystemalive Namespace Reference

### Classes

- class [PeekFilesystemAlive](#)

## 1.46 parsley.sync.infs.aspect.permissions Namespace Reference

### Classes

- class [ApplyPermissions](#)  
*Applies the specified file system permissions to all entries processed by parsley.*

## 1.47 `parsley.sync.infs.aspect.remove` Namespace Reference

### Classes

- class [DetectRemoval](#)  
*Detects removed entries.*
- class [DefaultRemoveDirs](#)  
*Removes directories via the filesystem.*
- class [RemoveOrphanedDirs](#)  
*Removes empty orphaned directories.*
- class [CleanupTrashBin](#)  
*Cleans up the trash bin.*
- class [DefaultRemove](#)  
*Default removal strategy without a trashbin.*
- class [TrashRemove](#)  
*Removal strategy with a trashbin.*

## 1.48 `parsley.sync.infs.aspect.revisiontracking` Namespace Reference

### Classes

- class [RevisionTracking](#)  
*Keeps all versions of all files which parsley has seen into a revision storage in the control directory.*

## 1.49 `parsley.sync.infs.aspect.update` Namespace Reference

### Classes

- class [DefaultUpdateFile](#)  
*Default handling for updating files.*
- class [DefaultUpdateLink](#)  
*Default handling for updating links.*

## 1.50 `parsley.sync.infs.common` Namespace Reference

Boring data structures.

### Classes

- class [ConflictResolution](#)
- class [ActionControl](#)
- class [ElectionControl](#)

### 1.50.1 Detailed Description

Boring data structures.

## 1.51 `parsley.sync.infs.entrylist` Namespace Reference

Internal in-memory list of entries for one filesystem with (de-)serialization features.

### Classes

- class [EntryList](#)
- class [CombinedEntryList](#)

### 1.51.1 Detailed Description

Internal in-memory list of entries for one filesystem with (de-)serialization features.

## 1.52 `parsley.sync.infs.filesystem` Namespace Reference

[Filesystem](#) implementations for use with [parsley.sync.infs.InFsSync](#).

### Namespaces

- [local](#)
- [sshfs](#)

### Classes

- class [Filesystem](#)

### 1.52.1 Detailed Description

[Filesystem](#) implementations for use with [parsley.sync.infs.InFsSync](#).

## 1.53 `parsley.sync.infs.filesystem.local` Namespace Reference

### Classes

- class [LocalFilesystem](#)

## 1.54 `parsley.sync.infs.filesystem.sshfs` Namespace Reference

### Classes

- class [SshfsFilesystem](#)

## 1.55 `parsley.sync.infs.syncmachine` Namespace Reference

Some inner parts of the [parsley.sync.infs.InFsSync](#) implementation, also contains the event hook definitions.

## Classes

- class [SyncHooks](#)
- class [SyncMachine](#)

*The state and some data structures for a full sync run at runtime.*

### 1.55.1 Detailed Description

Some inner parts of the [parsley.sync.infs.InFsSync](#) implementation, also contains the event hook definitions.

## 1.56 [parsley.test](#) Namespace Reference

Tests (unit tests, system tests, ...).

### Namespaces

- [test](#)  
*This feature package should be imported by each test.*
- [test1](#)  
*Test: very basic functionality.*
- [test10](#)  
*Test: version history.*
- [test11](#)  
*Test: integrity.*
- [test12](#)  
*Test: sshfs native.*
- [test13](#)  
*Test: metadata simple.*
- [test14](#)  
*Test: metadata simple ssh.*
- [test15](#)  
*Test: metadata integrity.*
- [test16](#)  
*Test: dirty copy detection.*
- [test17](#)  
*Test: subsequent trash remove.*
- [test18](#)  
*Test: no local file removals after remote ssh killed.*
- [test2](#)  
*Test: MoveSink/MoveSattelite pair.*
- [test3](#)  
*Test: react on io errors.*
- [test4](#)  
*Test: symlinks.*
- [test5](#)  
*Test: filenames with non-ascii characters.*
- [test6](#)  
*Test: directory removal functionality.*
- [test7](#)

*Test: slight variation of directory removal.*

- [test8](#)

*Test: directory trashing.*

- [test9](#)

*Test: direct transitive sync.*

- [testhelper\\_common](#)

*Some common helper functions for implementing tests.*

- [testhelper\\_metadata](#)

*Some helper functions for implementing tests about metadata handling.*

- [testhelper\\_ssh](#)

*Some helper functions over ssh filesystems.*

### 1.56.1 Detailed Description

Tests (unit tests, system tests, ...). Not needed for the productive usage.

## 1.57 parsley.test.test Namespace Reference

This feature package should be imported by each test.

### Variables

- tuple [metadata](#) = [Metadata](#)(mydir)

### 1.57.1 Detailed Description

This feature package should be imported by each test.

### 1.57.2 Variable Documentation

1.57.2.1 tuple [parsley.test.test.metadata](#) = [Metadata](#)(mydir)

## 1.58 parsley.test.test1 Namespace Reference

Test: very basic functionality.

### Variables

- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)

### 1.58.1 Detailed Description

Test: very basic functionality.

### 1.58.2 Variable Documentation

1.58.2.1 `string parsley.test.test1.host = "localhost"`

1.58.2.2 `tuple parsley.test.test1.interval = timedelta(seconds=0)`

## 1.59 `parsley.test.test10` Namespace Reference

Test: version history.

### Variables

- `string host = "localhost"`
- `tuple interval = timedelta(seconds=0)`
- `string p = "m/.parsley.control/content_revisions/f{f}/"`
- `tuple l = listdir(p)`
- `int t = 4`
- `dictionary found = {}`
- `tuple cont = readfile(p + ll)`
- `lo = False`
- `up = False`

### 1.59.1 Detailed Description

Test: version history.

### 1.59.2 Variable Documentation

1.59.2.1 `tuple parsley.test.test10.cont = readfile(p + ll)`

1.59.2.2 `dictionary parsley.test.test10.found = {}`

1.59.2.3 `string parsley.test.test10.host = "localhost"`

1.59.2.4 `tuple parsley.test.test10.interval = timedelta(seconds=0)`

1.59.2.5 `tuple parsley.test.test10.l = listdir(p)`

1.59.2.6 `parsley.test.test10.lo = False`

1.59.2.7 `string parsley.test.test10.p = "m/.parsley.control/content_revisions/f{f}/"`

1.59.2.8 `tuple parsley.test.test10.t = 4`

1.59.2.9 `parsley.test.test10.up = False`

## 1.60 `parsley.test.test11` Namespace Reference

Test: integrity.

## Classes

- class [State](#)

## Variables

- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)
- list [preparations](#)
- int [runs](#) = 3
- tuple [state](#) = [State](#)()
- [succ](#) = False
- tuple [good](#) = state.checkmachine("m")

### 1.60.1 Detailed Description

Test: integrity.

### 1.60.2 Variable Documentation

1.60.2.1 tuple parsley.test.test11.good = state.checkmachine("m")

1.60.2.2 string parsley.test.test11.host = "localhost"

1.60.2.3 tuple parsley.test.test11.interval = timedelta(seconds=0)

1.60.2.4 list parsley.test.test11.preparations

**Initial value:**

```
1 = [SshfsMountPreparation(src="pino@localhost:" + mydir + "s",
2   tries=2, timeout=timedelta(seconds=4),
3   tgt="_s", idfile=mydir+"/loginkey", port=42921,
4   options=["-o", "StrictHostKeyChecking=no", "-o",
5            "UserKnownHostsFile=/dev/null"])]
```

1.60.2.5 int parsley.test.test11.runs = 3

1.60.2.6 tuple parsley.test.test11.state = [State](#)()

1.60.2.7 parsley.test.test11.succ = False

## 1.61 parsley.test.test12 Namespace Reference

Test: sshfs native.

## Variables

- int [port](#) = 42921
- list [options](#) = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]
- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)

### 1.61.1 Detailed Description

Test: sshfs native.

### 1.61.2 Variable Documentation

1.61.2.1 `string parsley.test.test12.host = "localhost"`

1.61.2.2 `tuple parsley.test.test12.interval = timedelta(seconds=0)`

1.61.2.3 `list parsley.test.test12.options = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]`

1.61.2.4 `int parsley.test.test12.port = 42921`

## 1.62 parsley.test.test13 Namespace Reference

Test: metadata simple.

### Variables

- `string path = "m"`
- `string host = "localhost"`
- `tuple interval = timedelta(seconds=0)`

### 1.62.1 Detailed Description

Test: metadata simple.

### 1.62.2 Variable Documentation

1.62.2.1 `string parsley.test.test13.host = "localhost"`

1.62.2.2 `tuple parsley.test.test13.interval = timedelta(seconds=0)`

1.62.2.3 `string parsley.test.test13.path = "m"`

## 1.63 parsley.test.test14 Namespace Reference

Test: metadata simple ssh.

### Variables

- `string path = "m"`
- `string sshtarget = "pino@localhost"`
- `string idfile = mydir+"/loginkey"`
- `int port = 42921`
- `list options = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]`
- `string host = "localhost"`
- `tuple interval = timedelta(seconds=0)`



### 1.63.1 Detailed Description

Test: metadata simple ssh.

### 1.63.2 Variable Documentation

1.63.2.1 string parsley.test.test14.host = "localhost"

1.63.2.2 string parsley.test.test14.idfile = mydir+"/loginkey"

1.63.2.3 tuple parsley.test.test14.interval = timedelta(seconds=0)

1.63.2.4 list parsley.test.test14.options = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]

1.63.2.5 string parsley.test.test14.path = "m"

1.63.2.6 int parsley.test.test14.port = 42921

1.63.2.7 string parsley.test.test14.sshtarget = "pino@localhost"

## 1.64 parsley.test.test15 Namespace Reference

Test: metadata integrity.

### Classes

- class [State](#)

### Variables

- string [path](#) = "m"
- string [name](#) = "master"
- string [sshtarget](#) = "pino@localhost"
- string [idfile](#) = mydir+"/loginkey"
- int [port](#) = 42921
- tuple [timeout](#) = timedelta(seconds=4)
- list [options](#) = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]
- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)
- int [runs](#) = 2
- tuple [state](#) = [State](#)()
- [succ](#) = False
- tuple [good](#) = state.checkmachine("m")

### 1.64.1 Detailed Description

Test: metadata integrity.

### 1.64.2 Variable Documentation

- 1.64.2.1 `tuple parsley.test.test15.good = state.checkmachine("m")`
- 1.64.2.2 `string parsley.test.test15.host = "localhost"`
- 1.64.2.3 `string parsley.test.test15.idfile = mydir+"/loginkey"`
- 1.64.2.4 `tuple parsley.test.test15.interval = timedelta(seconds=0)`
- 1.64.2.5 `string parsley.test.test15.name = "master"`
- 1.64.2.6 `list parsley.test.test15.options = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]`
- 1.64.2.7 `string parsley.test.test15.path = "m"`
- 1.64.2.8 `int parsley.test.test15.port = 42921`
- 1.64.2.9 `int parsley.test.test15.runs = 2`
- 1.64.2.10 `string parsley.test.test15.sshtarget = "pino@localhost"`
- 1.64.2.11 `tuple parsley.test.test15.state = State()`
- 1.64.2.12 `parsley.test.test15.succ = False`
- 1.64.2.13 `tuple parsley.test.test15.timeout = timedelta(seconds=4)`

## 1.65 parsley.test.test16 Namespace Reference

Test: dirty copy detection.

### Classes

- class [ChangerThread](#)

### Variables

- int [port](#) = 42921
- list [options](#) = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]
- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)
- int [runs](#) = 3
- int [passed](#) = 0
- tuple [filesize](#) = int(for10secs \* 1024 / random.choice([2, 4, 6, 8, 10, 15, 100, 10000]))
- tuple [waittimes](#) = random.randint(0, int(2 \* conn\_oh + 120))
- dictionary [th](#) = {}
- list [l](#) = ["a", "b", "c", "d", "e", "f", "g"]
- [waiting](#) = True
- [succ](#) = False
- [good](#) = True

### 1.65.1 Detailed Description

Test: dirty copy detection.

### 1.65.2 Variable Documentation

1.65.2.1 tuple parsley.test.test16.filesize = int(for10secs \* 1024 / random.choice([2, 4, 6, 8, 10, 15, 100, 10000]))

1.65.2.2 tuple parsley.test.test16.good = True

1.65.2.3 string parsley.test.test16.host = "localhost"

1.65.2.4 tuple parsley.test.test16.interval = timedelta(seconds=0)

1.65.2.5 list parsley.test.test16.l = ["a", "b", "c", "d", "e", "f", "g"]

1.65.2.6 list parsley.test.test16.options = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]

1.65.2.7 int parsley.test.test16.passed = 0

1.65.2.8 int parsley.test.test16.port = 42921

1.65.2.9 int parsley.test.test16.runs = 3

1.65.2.10 parsley.test.test16.succ = False

1.65.2.11 dictionary parsley.test.test16.th = {}

1.65.2.12 tuple parsley.test.test16.waiting = True

1.65.2.13 tuple parsley.test.test16.waittimes = random.randint(0, int(2 \* conn\_oh + 120))

## 1.66 parsley.test.test17 Namespace Reference

Test: subsequent trash remove.

### Variables

- string `host` = "localhost"
- tuple `interval` = timedelta(seconds=0)

### 1.66.1 Detailed Description

Test: subsequent trash remove.

### 1.66.2 Variable Documentation

1.66.2.1 string parsley.test.test17.host = "localhost"

1.66.2.2 tuple parsley.test.test17.interval = timedelta(seconds=0)

## 1.67 parsley.test.test18 Namespace Reference

Test: no local file removals after remote ssh killed.

### Classes

- class [SleepWhileBeginning](#)

### Functions

- def [wait\\_and\\_kill\\_connection](#)

### Variables

- string [path](#) = "m"
- string [name](#) = "master"
- string [sshtarget](#) = "pino@localhost"
- string [idfile](#) = mydir+"/loginkey"
- int [port](#) = 42921
- tuple [timeout](#) = timedelta(seconds=4)
- list [options](#) = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]
- string [host](#) = "localhost"
- tuple [interval](#) = timedelta(seconds=0)

#### 1.67.1 Detailed Description

Test: no local file removals after remote ssh killed.

#### 1.67.2 Function Documentation

1.67.2.1 def `parsley.test.test18.wait_and_kill_connection ( )`

#### 1.67.3 Variable Documentation

1.67.3.1 string `parsley.test.test18.host` = "localhost"

1.67.3.2 string `parsley.test.test18.idfile` = mydir+"/loginkey"

1.67.3.3 tuple `parsley.test.test18.interval` = timedelta(seconds=0)

1.67.3.4 string `parsley.test.test18.name` = "master"

1.67.3.5 list `parsley.test.test18.options` = ["-o", "StrictHostKeyChecking=no", "-o", "UserKnownHostsFile=/dev/null"]

1.67.3.6 string `parsley.test.test18.path` = "m"

1.67.3.7 int `parsley.test.test18.port` = 42921

1.67.3.8 string `parsley.test.test18.sshtarget` = "pino@localhost"

1.67.3.9 tuple `parsley.test.test18.timeout` = timedelta(seconds=4)

## 1.68 parsley.test.test2 Namespace Reference

Test: MoveSink/MoveSattelite pair.

### Variables

- string `path` = "m"
- string `host` = "localhost"
- tuple `interval` = timedelta(seconds=0)

### 1.68.1 Detailed Description

Test: MoveSink/MoveSattelite pair.

### 1.68.2 Variable Documentation

1.68.2.1 string `parsley.test.test2.host` = "localhost"

1.68.2.2 tuple `parsley.test.test2.interval` = timedelta(seconds=0)

1.68.2.3 string `parsley.test.test2.path` = "m"

## 1.69 parsley.test.test3 Namespace Reference

Test: react on io errors.

### Variables

- string `host` = "localhost"
- tuple `interval` = timedelta(seconds=0)
- list `preparations`

### 1.69.1 Detailed Description

Test: react on io errors.

### 1.69.2 Variable Documentation

1.69.2.1 string `parsley.test.test3.host` = "localhost"

1.69.2.2 tuple `parsley.test.test3.interval` = timedelta(seconds=0)

1.69.2.3 list `parsley.test.test3.preparations`

### Initial value:

```
1 = [MountPreparation(src=mydir+"part",tgt=mydir+"m",
2     opts=["-o", "loop"],)]
```

## 1.70 `parsley.test.test4` Namespace Reference

Test: symlinks.

### Variables

- string `path` = "m"
- string `host` = "localhost"
- tuple `interval` = `timedelta(seconds=0)`

### 1.70.1 Detailed Description

Test: symlinks.

### 1.70.2 Variable Documentation

1.70.2.1 `string parsley.test.test4.host = "localhost"`

1.70.2.2 `tuple parsley.test.test4.interval = timedelta(seconds=0)`

1.70.2.3 `string parsley.test.test4.path = "m"`

## 1.71 `parsley.test.test5` Namespace Reference

Test: filenames with non-ascii characters.

### Variables

- string `host` = "localhost"
- tuple `interval` = `timedelta(seconds=0)`

### 1.71.1 Detailed Description

Test: filenames with non-ascii characters.

### 1.71.2 Variable Documentation

1.71.2.1 `string parsley.test.test5.host = "localhost"`

1.71.2.2 `tuple parsley.test.test5.interval = timedelta(seconds=0)`

## 1.72 `parsley.test.test6` Namespace Reference

Test: directory removal functionality.

### Variables

- string `host` = "localhost"
- tuple `interval` = `timedelta(seconds=0)`

### 1.72.1 Detailed Description

Test: directory removal functionality.

### 1.72.2 Variable Documentation

1.72.2.1 `string parsley.test.test6.host = "localhost"`

1.72.2.2 `tuple parsley.test.test6.interval = timedelta(seconds=0)`

## 1.73 parsley.test.test7 Namespace Reference

Test: slight variation of directory removal.

### Variables

- `string host = "localhost"`
- `tuple interval = timedelta(seconds=0)`

### 1.73.1 Detailed Description

Test: slight variation of directory removal.

### 1.73.2 Variable Documentation

1.73.2.1 `string parsley.test.test7.host = "localhost"`

1.73.2.2 `tuple parsley.test.test7.interval = timedelta(seconds=0)`

## 1.74 parsley.test.test8 Namespace Reference

Test: directory trashing.

### Variables

- `string host = "localhost"`
- `tuple interval = timedelta(seconds=0)`

### 1.74.1 Detailed Description

Test: directory trashing.

### 1.74.2 Variable Documentation

1.74.2.1 `string parsley.test.test8.host = "localhost"`

1.74.2.2 `tuple parsley.test.test8.interval = timedelta(seconds=0)`

## 1.75 `parsley.test.test9` Namespace Reference

Test: direct transitive sync.

### Variables

- string `host` = "localhost-a"
- tuple `interval` = timedelta(seconds=20)

### 1.75.1 Detailed Description

Test: direct transitive sync.

### 1.75.2 Variable Documentation

1.75.2.1 string `parsley.test.test9.host` = "localhost-a"

1.75.2.2 tuple `parsley.test.test9.interval` = timedelta(seconds=20)

## 1.76 `parsley.test.testhelper_common` Namespace Reference

Some common helper functions for implementing tests.

### Functions

- def `gettestfile`
- def `gettestrootdir`
- def `getmydir`
- def `write2file`
- def `readfile`
- def `readtrashedfile`
- def `fileexiststrashed`
- def `link`
- def `islink`
- def `trashed`
- def `deletefile`
- def `deletedir`
- def `filesindir`
- def `listdir`
- def `verify`
- def `isdir`
- def `fileexists`
- def `fileexistspattern`
- def `exists`
- def `haslogentry`
- def `SYNC`
- def `RESET`



## Variables

- tuple `_testfile` = `os.path.abspath(sys.argv[0])`
- int `cols` = 80
- string `prependcfg` = "mydir=\""
- tuple `mydir` = `getmydir()`
- int `_comm_i` = 1

## 1.76.1 Detailed Description

Some common helper functions for implementing tests.

## 1.76.2 Function Documentation

1.76.2.1 `def parsley.test.testhelper_common.deletedir ( p )`

1.76.2.2 `def parsley.test.testhelper_common.deletefile ( p )`

1.76.2.3 `def parsley.test.testhelper_common.exists ( p )`

1.76.2.4 `def parsley.test.testhelper_common.fileexists ( p )`

1.76.2.5 `def parsley.test.testhelper_common.fileexistspattern ( p )`

1.76.2.6 `def parsley.test.testhelper_common.fileexiststrashed ( p )`

1.76.2.7 `def parsley.test.testhelper_common.filesindir ( p, _res = None )`

1.76.2.8 `def parsley.test.testhelper_common.getmydir ( )`

1.76.2.9 `def parsley.test.testhelper_common.gettestfile ( )`

1.76.2.10 `def parsley.test.testhelper_common.gettestrootdir ( )`

1.76.2.11 `def parsley.test.testhelper_common.haslogentry ( p, verb = None )`

1.76.2.12 `def parsley.test.testhelper_common.isdir ( p )`

1.76.2.13 `def parsley.test.testhelper_common.islink ( s )`

1.76.2.14 `def parsley.test.testhelper_common.link ( s, d )`

1.76.2.15 `def parsley.test.testhelper_common.listdir ( p )`

1.76.2.16 `def parsley.test.testhelper_common.readfile ( p )`

1.76.2.17 `def parsley.test.testhelper_common.readtrashedfile ( p )`

1.76.2.18 `def parsley.test.testhelper_common.RESET ( removebefore = False )`

1.76.2.19 `def parsley.test.testhelper_common.SYNC ( )`

1.76.2.20 `def parsley.test.testhelper_common.trashed ( p, onlybool = False )`

1.76.2.21 `def parsley.test.testhelper_common.verify ( c, m )`

1.76.2.22 `def parsley.test.testhelper_common.write2file ( p, m )`

### 1.76.3 Variable Documentation

1.76.3.1 `int parsley.test.testhelper_common._comm_i = 1`

1.76.3.2 `tuple parsley.test.testhelper_common._testfile = os.path.abspath(sys.argv[0])`

1.76.3.3 `int parsley.test.testhelper_common.cols = 80`

1.76.3.4 `tuple parsley.test.testhelper_common.mydir = getmydir()`

1.76.3.5 `string parsley.test.testhelper_common.prependcfg = "mydir=\"\""`

## 1.77 parsley.test.testhelper\_metadata Namespace Reference

Some helper functions for implementing tests about metadata handling.

### Classes

- class [Metadata](#)

#### 1.77.1 Detailed Description

Some helper functions for implementing tests about metadata handling.

## 1.78 parsley.test.testhelper\_ssh Namespace Reference

Some helper functions over ssh filesystems.

### Classes

- class [RateLimiter](#)
- class [TemporarySshFs](#)
- class [Disturbator](#)

### Functions

- def [\\_iptables](#)
- def [measure\\_network](#)

#### 1.78.1 Detailed Description

Some helper functions over ssh filesystems.

## 1.78.2 Function Documentation

1.78.2.1 `def parsley.test.testhelper_ssh._iptables ( cmd ) [private]`

1.78.2.2 `def parsley.test.testhelper_ssh.measure_network ( )`

## 1.79 parsley.tools Namespace Reference

Auxiliary stuff, (at least mostly) decoupled from parsley infrastructure.

### Namespaces

- [common](#)  
*Tools for very common jobs.*
- [networking](#)  
*Parsley networking features.*
- [pathacceptors](#)  
*Default implementation for path acceptors as e.g.*
- [sshxattrproxy](#)  
*SSH remote proxy for exchange of file metadata.*

### 1.79.1 Detailed Description

Auxiliary stuff, (at least mostly) decoupled from parsley infrastructure.

## 1.80 parsley.tools.common Namespace Reference

Tools for very common jobs.

### Functions

- `def call`  
*Executes an external process and returns a tuple of returnvalue and program output.*

### 1.80.1 Detailed Description

Tools for very common jobs.

### 1.80.2 Function Documentation

1.80.2.1 `def parsley.tools.common.call ( cmdline, shell=False, decode=True, errorstring=None )`

Executes an external process and returns a tuple of returnvalue and program output.

## 1.81 parsley.tools.networking Namespace Reference

Parsley networking features.

## Functions

- def [translate\\_parsley\\_portforwarding](#)

*Provides functionality for using parsley through an ssh remote port forwarding tunnel.*

### 1.81.1 Detailed Description

Parsley networking features.

### 1.81.2 Function Documentation

1.81.2.1 `def parsley.tools.networking.translate_parsley_portforwarding ( machine, port, runtime )`

Provides functionality for using parsley through an ssh remote port forwarding tunnel.

## 1.82 parsley.tools.pathacceptors Namespace Reference

Default implementation for path acceptors as e.g.

## Functions

- def [defaultpathacceptor](#)

*A path acceptor which skips file names with some known 'backup pattern', like ending with ~.*

- def [builtinpathacceptor](#)

*A path acceptor which skips parsley control stuff.*

### 1.82.1 Detailed Description

Default implementation for path acceptors as e.g. used in [parsley.sync.infs.aspect.applypathacceptor.ApplyPath-Acceptor](#).

### 1.82.2 Function Documentation

1.82.2.1 `def parsley.tools.pathacceptors.builtinpathacceptor ( p )`

A path acceptor which skips parsley control stuff.

It is always used.

1.82.2.2 `def parsley.tools.pathacceptors.defaultpathacceptor ( p )`

A path acceptor which skips file names with some known 'backup pattern', like ending with ~.

## 1.83 parsley.tools.sshxattrproxy Namespace Reference

SSH remote proxy for exchange of file metadata.

## Classes

- class [Mainloop](#)

*This program is not directly used in the process of the parsley engine but is copied to a remote system and controlled via an ssh session as a proxy for doing some tasks on this remote system, which cannot be done via an sshfs mount.*

### 1.83.1 Detailed Description

SSH remote proxy for exchange of file metadata.

## 1.84 `parsley_gui` Namespace Reference

Starts [parsley.gui.main](#).

### 1.84.1 Detailed Description

Starts [parsley.gui.main](#).

## 1.85 `parsley.sync.infs.aspect.metadata._Metadata` Class Reference

### Public Member Functions

- def [\\_\\_str\\_\\_](#)
- def [\\_\\_init\\_\\_](#)
- def [putdata](#)
- def [getdata](#)
- def [getkeys](#)

### Static Public Member Functions

- def [get\\_metadata\\_from\\_file](#)
- def [set\\_metadata\\_to\\_file](#)
- def [set\\_metadataversion\\_to\\_file](#)
- def [get\\_metadata\\_from\\_shadow](#)
- def [set\\_metadata\\_to\\_shadow](#)
- def [remove\\_shadow](#)
- def [metadata\\_differs](#)

### Public Attributes

- [version](#)

### Private Attributes

- [\\_data](#)

### 1.85.1 Constructor & Destructor Documentation

1.85.1.1 `def parsley.sync.infs.aspect.metadata._Metadata.__init__( self, version = 0 )`

### 1.85.2 Member Function Documentation

1.85.2.1 `def parsley.sync.infs.aspect.metadata._Metadata.__str__( self )`

1.85.2.2 `def parsley.sync.infs.aspect.metadata._Metadata.get_metadata_from_file( fs, path, ignore_removed = False )`  
[static]

1.85.2.3 `def parsley.sync.infs.aspect.metadata._Metadata.get_metadata_from_shadow( fs, path )` [static]

1.85.2.4 `def parsley.sync.infs.aspect.metadata._Metadata.getdata( self, k, d=None )`

1.85.2.5 `def parsley.sync.infs.aspect.metadata._Metadata.getkeys( self )`

1.85.2.6 `def parsley.sync.infs.aspect.metadata._Metadata.metadata_differs( md1, md2 )` [static]

1.85.2.7 `def parsley.sync.infs.aspect.metadata._Metadata.putdata( self, k, v )`

1.85.2.8 `def parsley.sync.infs.aspect.metadata._Metadata.remove_shadow( fs, path, isdir )` [static]

1.85.2.9 `def parsley.sync.infs.aspect.metadata._Metadata.set_metadata_to_file( fs, path, md, ignore_removed = False )`  
[static]

1.85.2.10 `def parsley.sync.infs.aspect.metadata._Metadata.set_metadata_to_shadow( fs, path, md )` [static]

1.85.2.11 `def parsley.sync.infs.aspect.metadata._Metadata.set_metadataversion_to_file( fs, path, md, ignore_removed = False )` [static]

### 1.85.3 Member Data Documentation

1.85.3.1 `parsley.sync.infs.aspect.metadata._Metadata._data` [private]

1.85.3.2 `parsley.sync.infs.aspect.metadata._Metadata.version`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/metadata.py`

## 1.86 `parsley.sync.infs.aspect.metadata._MyTaskData` Class Reference

### Public Member Functions

- `def __init__`

### Public Attributes

- `latestmd`
- `latestmd_origversion`
- `aborted`
- `forpath`

## 1.86.1 Constructor & Destructor Documentation

1.86.1.1 `def parsley.sync.infs.aspect.metadata._MyTaskData.__init__( self )`

## 1.86.2 Member Data Documentation

1.86.2.1 `parsley.sync.infs.aspect.metadata._MyTaskData.aborted`

1.86.2.2 `parsley.sync.infs.aspect.metadata._MyTaskData.forpath`

1.86.2.3 `parsley.sync.infs.aspect.metadata._MyTaskData.latestmd`

1.86.2.4 `parsley.sync.infs.aspect.metadata._MyTaskData.latestmd_origversion`

The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/metadata.py](#)

## 1.87 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.\_SshXattrProxy Class Reference

### Public Member Functions

- `def __init__`
- `def request`
- `def shutdown`

### Public Attributes

- `sshfs`
- `sshproc`
- `sin`
- `sout`
- `readywaitlock`
- `readywaitcondition`

### Private Member Functions

- `def __waitanswer`

### Private Attributes

- `__ready`
- `__quark`
- `__stopreadywaitthread`
- `__finished`
- `__benchmark`

### 1.87.1 Constructor & Destructor Documentation

1.87.1.1 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.__init__( self, sshfs )`

### 1.87.2 Member Function Documentation

1.87.2.1 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.waitanswer ( self, endstring, additionaltimeout=0 ) [private]`

1.87.2.2 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.request ( self, command )`

1.87.2.3 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.shutdown ( self )`

### 1.87.3 Member Data Documentation

1.87.3.1 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy._benchmark [private]`

1.87.3.2 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy._finished [private]`

1.87.3.3 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy._quark [private]`

1.87.3.4 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy._ready [private]`

1.87.3.5 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy._stopreadywaitthread [private]`

1.87.3.6 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.readywaitcondition`

1.87.3.7 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.readywaitlock`

1.87.3.8 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.sin`

1.87.3.9 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.sout`

1.87.3.10 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.sshfs`

1.87.3.11 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._SshXattrProxy.sshproc`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/filesystem/sshfs.py`

## 1.88 parsley.sync.infs.common.ActionControl Class Reference

### Static Public Attributes

- string `SKIP` = "AC:SKIP"

### 1.88.1 Member Data Documentation

1.88.1.1 `string parsley.sync.infs.common.ActionControl.SKIP = "AC:SKIP" [static]`

The documentation for this class was generated from the following file:

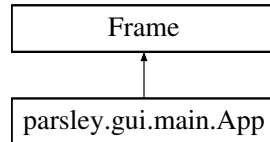
- `parsley/sync/infs/common.py`



## 1.89 parsley.gui.main.App Class Reference

A very minimalist graphical interface for creating a parsley configuration (in a very limited manner).

Inheritance diagram for parsley.gui.main.App:



### Classes

- class [FilesystemFrame](#)

### Public Member Functions

- def [deserialize](#)
- def [\\_\\_init\\_\\_](#)

### Public Attributes

- [lblWelcome](#)
- [frameFilesystem1](#)
- [frameFilesystem2](#)
- [lblStorage](#)
- [buttons](#)
- [btnSync](#)
- [btnAdvUsage](#)
- [output](#)
- [scrollbar](#)
- [outputtext](#)
- [done](#)
- [error](#)

### Private Member Functions

- def [\\_sync](#)
- def [\\_checkdone](#)
- def [\\_helpadv](#)
- def [\\_getdocfile](#)

### 1.89.1 Detailed Description

A very minimalist graphical interface for creating a parsley configuration (in a very limited manner).

Helps for the first steps with parsley, as you can directly start getting some results. Not recommended for everyday usage due to all its limitations.

## 1.89.2 Constructor & Destructor Documentation

1.89.2.1 `def parsley.gui.main.App.__init__( self, master = None )`

## 1.89.3 Member Function Documentation

1.89.3.1 `def parsley.gui.main.App._checkdone ( self ) [private]`

1.89.3.2 `def parsley.gui.main.App._getdocfile ( self ) [private]`

1.89.3.3 `def parsley.gui.main.App._helpadv ( self ) [private]`

1.89.3.4 `def parsley.gui.main.App._sync ( self ) [private]`

1.89.3.5 `def parsley.gui.main.App.deserialize ( self )`

## 1.89.4 Member Data Documentation

1.89.4.1 `parsley.gui.main.App.btnAdvUsage`

1.89.4.2 `parsley.gui.main.App.btnSync`

1.89.4.3 `parsley.gui.main.App.buttons`

1.89.4.4 `parsley.gui.main.App.done`

1.89.4.5 `parsley.gui.main.App.error`

1.89.4.6 `parsley.gui.main.App.frameFilesystem1`

1.89.4.7 `parsley.gui.main.App.frameFilesystem2`

1.89.4.8 `parsley.gui.main.App.lblStorage`

1.89.4.9 `parsley.gui.main.App.lblWelcome`

1.89.4.10 `parsley.gui.main.App.output`

1.89.4.11 `parsley.gui.main.App.outputtext`

1.89.4.12 `parsley.gui.main.App.scrollbar`

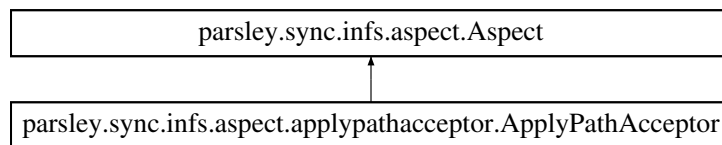
The documentation for this class was generated from the following file:

- [parsley/gui/main.py](#)

## 1.90 parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor Class Reference

Filters out directories which should be excluded from syncing.

Inheritance diagram for `parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor`:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Public Attributes

- [acceptor](#)

## Static Private Member Functions

- def [\\_skip\\_by\\_pathacceptor](#)  
*Skips this entry if it is rejected by the path acceptor.*

## Private Attributes

- [\\_dontthrowexceptiononnonglobalusage](#)

### 1.90.1 Detailed Description

Filters out directories which should be excluded from syncing.

It works by providing a path acceptor function.

### 1.90.2 Constructor & Destructor Documentation

- 1.90.2.1 `def parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor.__init__( self, acceptor, _dontthrowexceptiononnonglobalusage=False )`

### 1.90.3 Member Function Documentation

- 1.90.3.1 `def parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor._skip_by_pathacceptor( acceptor )`  
[static], [private]

Skips this entry if it is rejected by the path acceptor.

- 1.90.3.2 `def parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor.hook( self, machine, isglobal, fss )`

### 1.90.4 Member Data Documentation

- 1.90.4.1 `parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor._dontthrowexceptiononnonglobalusage`  
[private]

- 1.90.4.2 `parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor.acceptor`

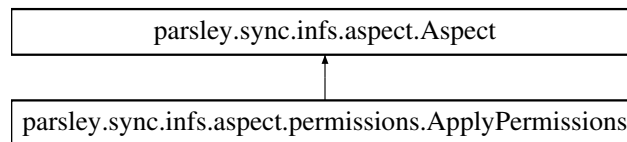
The documentation for this class was generated from the following file:

- [parsley/sync/ifs/aspect/applypathacceptor.py](#)

## 1.91 `parsley.sync.ifs.aspect.permissions.ApplyPermissions` Class Reference

Applies the specified file system permissions to all entries processed by parsley.

Inheritance diagram for `parsley.sync.ifs.aspect.permissions.ApplyPermissions`:



### Public Member Functions

- `def __init__`
- `def hook`

### Public Attributes

- `user`
- `group`
- `fileaddperms`
- `diraddperms`
- `filesubtractperms`
- `dirsubtractperms`

### Static Private Member Functions

- `def _setperms`
- `def _set_file_permissions`  
*Sets the file permissions of a file entry to what is configured in the aspect.*
- `def _set_dir_permissions`  
*Sets the file permissions of a dir entry to what is configured in the aspect.*

#### 1.91.1 Detailed Description

Applies the specified file system permissions to all entries processed by parsley.

#### 1.91.2 Constructor & Destructor Documentation

- 1.91.2.1 `def parsley.sync.ifs.aspect.permissions.ApplyPermissions.__init__( self, user, group, fileaddperms, filesubtractperms, diraddperms, dirsubtractperms )`

#### 1.91.3 Member Function Documentation

- 1.91.3.1 `def parsley.sync.ifs.aspect.permissions.ApplyPermissions._set_dir_permissions( fs, user, group, diraddperms, dirsubtractperms )` `[static]`, `[private]`

Sets the file permissions of a dir entry to what is configured in the aspect.

1.91.3.2 `def parsley.sync.infs.aspect.permissions.ApplyPermissions._set_file_permissions ( fs, user, group, fileaddperms, filesubtractperms ) [static],[private]`

Sets the file permissions of a file entry to what is configured in the aspect.

1.91.3.3 `def parsley.sync.infs.aspect.permissions.ApplyPermissions._setperms ( path, uid, gid, addperms, subtractperms ) [static],[private]`

1.91.3.4 `def parsley.sync.infs.aspect.permissions.ApplyPermissions.hook ( self, machine, isglobal, fss )`

## 1.91.4 Member Data Documentation

1.91.4.1 `parsley.sync.infs.aspect.permissions.ApplyPermissions.diraddperms`

1.91.4.2 `parsley.sync.infs.aspect.permissions.ApplyPermissions.dirsubtractperms`

1.91.4.3 `parsley.sync.infs.aspect.permissions.ApplyPermissions.fileaddperms`

1.91.4.4 `parsley.sync.infs.aspect.permissions.ApplyPermissions.filesubtractperms`

1.91.4.5 `parsley.sync.infs.aspect.permissions.ApplyPermissions.group`

1.91.4.6 `parsley.sync.infs.aspect.permissions.ApplyPermissions.user`

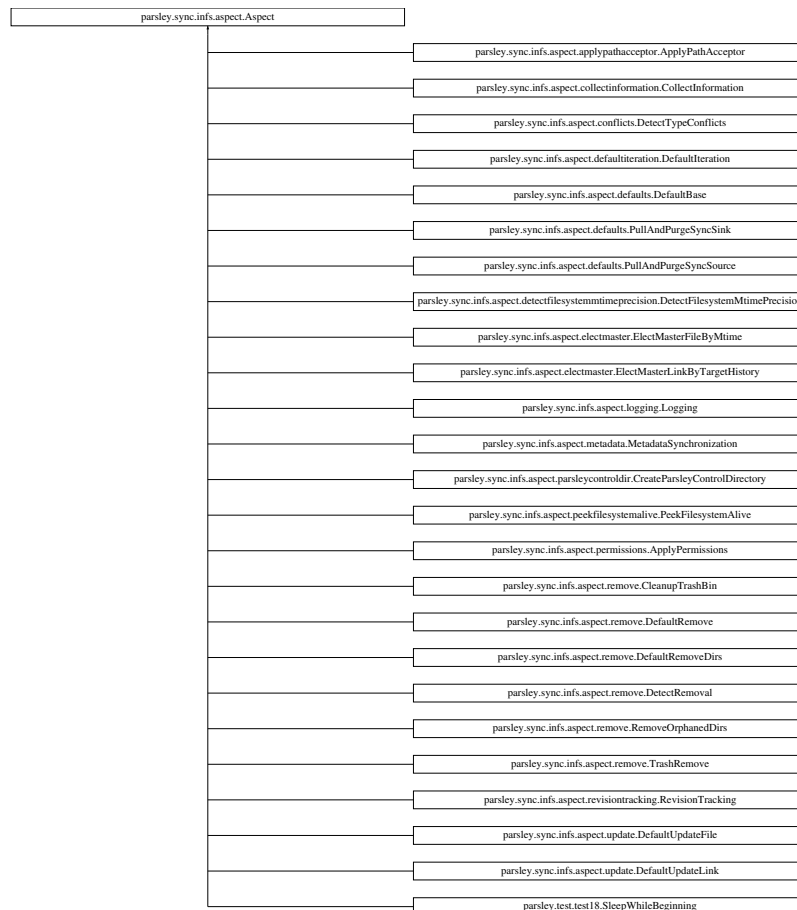
The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/permissions.py`

## 1.92 `parsley.sync.infs.aspect.Aspect` Class Reference

Abstract base class for behavior implementations which build the actual behavior of a `parsley.sync.infs.InFsSync` synchronization implementation.

Inheritance diagram for `parsley.sync.infs.aspect.Aspect`:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

*Request to hook program logic into certain events in 'machine'.*

### 1.92.1 Detailed Description

Abstract base class for behavior implementations which build the actual behavior of a [parsley.sync.infs.InFsSync](#) synchronization implementation.

### 1.92.2 Constructor & Destructor Documentation

1.92.2.1 `def parsley.sync.infs.aspect.Aspect.__init__( self )`

### 1.92.3 Member Function Documentation

1.92.3.1 `def parsley.sync.infs.aspect.Aspect.hook( self, machine, isglobal, fss )`

Request to hook program logic into certain events in 'machine'.

## Parameters

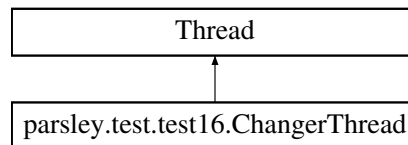
<i>machine</i>	the <a href="#">parsley.sync.infs.syncmachine.SyncMachine</a> instance.
----------------	---

The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/\\_\\_init\\_\\_.py](#)

## 1.93 parsley.test.test16.ChangerThread Class Reference

Inheritance diagram for parsley.test.test16.ChangerThread:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)
- [def run](#)

### Public Attributes

- [root](#)
- [filename](#)
- [filesize](#)
- [content](#)
- [interval](#)
- [started](#)
- [running](#)
- [deleteafter](#)
- [lst](#)
- [daemon](#)

#### 1.93.1 Constructor & Destructor Documentation

1.93.1.1 `def parsley.test.test16.ChangerThread.__init__( self, root, filename, filesize, interval, lst )`

#### 1.93.2 Member Function Documentation

1.93.2.1 `def parsley.test.test16.ChangerThread.run ( self )`

#### 1.93.3 Member Data Documentation

1.93.3.1 `parsley.test.test16.ChangerThread.content`

1.93.3.2 `parsley.test.test16.ChangerThread.daemon`

1.93.3.3 `parsley.test.test16.ChangerThread.deleteafter`

1.93.3.4 `parsley.test.test16.ChangerThread.filename`

1.93.3.5 `parsley.test.test16.ChangerThread.filesize`

1.93.3.6 `parsley.test.test16.ChangerThread.interval`

1.93.3.7 `parsley.test.test16.ChangerThread.lst`

1.93.3.8 `parsley.test.test16.ChangerThread.root`

1.93.3.9 `parsley.test.test16.ChangerThread.running`

1.93.3.10 `parsley.test.test16.ChangerThread.started`

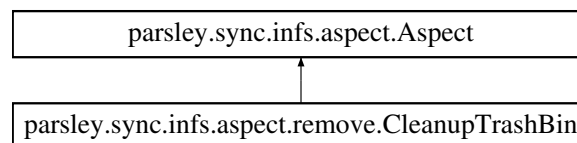
The documentation for this class was generated from the following file:

- `parsley/test/test16.py`

## 1.94 `parsley.sync.infs.aspect.remove.CleanupTrashBin` Class Reference

Cleans up the trash bin.

Inheritance diagram for `parsley.sync.infs.aspect.remove.CleanupTrashBin`:



### Public Member Functions

- `def __init__`
- `def hook`

### Public Attributes

- `trashdelay`

### Static Private Member Functions

- `def _cleanup_trashbin`

*Cleans up files in the trashbin control directory which fulfill certain conditions.*

#### 1.94.1 Detailed Description

Cleans up the trash bin.



## 1.94.2 Constructor & Destructor Documentation

1.94.2.1 `def parsley.sync.infs.aspect.remove.CleanupTrashBin.__init__( self, trashdelay = datetime.timedelta(days=7) )`

## 1.94.3 Member Function Documentation

1.94.3.1 `def parsley.sync.infs.aspect.remove.CleanupTrashBin._cleanup_trashbin( fs, machine, trashdelay ) [static], [private]`

Cleans up files in the trashbin control directory which fulfill certain conditions.

1.94.3.2 `def parsley.sync.infs.aspect.remove.CleanupTrashBin.hook( self, machine, isglobal, fss )`

## 1.94.4 Member Data Documentation

1.94.4.1 `parsley.sync.infs.aspect.remove.CleanupTrashBin.trashdelay`

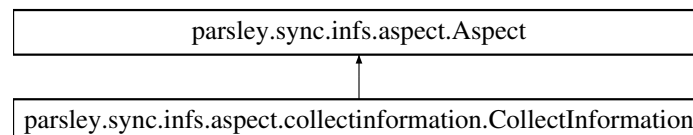
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/remove.py](#)

## 1.95 parsley.sync.infs.aspect.collectinformation.CollectInformation Class Reference

Used for populating the machine.filelists lists.

Inheritance diagram for `parsley.sync.infs.aspect.collectinformation.CollectInformation`:



### Public Member Functions

- `def __init__`
- `def hook`

### Static Private Member Functions

- `def _collectinfo`  
*Collects information (type, size, ...) for this entry from the filesystem and stores it to machine.filelists.*

## 1.95.1 Detailed Description

Used for populating the machine.filelists lists.

## 1.95.2 Constructor & Destructor Documentation

1.95.2.1 `def parsley.sync.infs.aspect.collectinformation.CollectInformation.__init__( self )`

## 1.95.3 Member Function Documentation

1.95.3.1 `def parsley.sync.infs.aspect.collectinformation.CollectInformation._collectinfo( fs, machine )` [static], [private]

Collects information (type, size, ...) for this entry from the filesystem and stores it to machine.filelists.

1.95.3.2 `def parsley.sync.infs.aspect.collectinformation.CollectInformation.hook( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/collectinformation.py](#)

## 1.96 parsley.sync.infs.entrylist.CombinedEntryList Class Reference

### Public Member Functions

- `def __init__`
- `def foundfile`
- `def updatefile`
- `def removefile`
- `def exists`
- `def getftype`
- `def getsize`
- `def getmtime`
- `def getparam`

### Public Attributes

- `first`
- `second`

## 1.96.1 Constructor & Destructor Documentation

1.96.1.1 `def parsley.sync.infs.entrylist.CombinedEntryList.__init__( self, first, second )`

## 1.96.2 Member Function Documentation

1.96.2.1 `def parsley.sync.infs.entrylist.CombinedEntryList.exists( self, path )`

1.96.2.2 `def parsley.sync.infs.entrylist.CombinedEntryList.foundfile( self, path, ftype, size, mtime, param )`

1.96.2.3 `def parsley.sync.infs.entrylist.CombinedEntryList.getftype( self, path )`

1.96.2.4 `def parsley.sync.infs.entrylist.CombinedEntryList.getmtime( self, path )`

1.96.2.5 `def parsley.sync.infs.entrylist.CombinedEntryList.getparam( self, path )`

1.96.2.6 `def parsley.sync.infs.entrylist.CombinedEntryList.getsize ( self, path )`

1.96.2.7 `def parsley.sync.infs.entrylist.CombinedEntryList.removefile ( self, path )`

1.96.2.8 `def parsley.sync.infs.entrylist.CombinedEntryList.updatefile ( self, path, ftype, size, mtime, param )`

### 1.96.3 Member Data Documentation

1.96.3.1 `parsley.sync.infs.entrylist.CombinedEntryList.first`

1.96.3.2 `parsley.sync.infs.entrylist.CombinedEntryList.second`

The documentation for this class was generated from the following file:

- [parsley/sync/infs/entrylist.py](#)

## 1.97 parsley.sync.infs.common.ConflictResolution Class Reference

### Static Public Attributes

- string `SKIP` = "CR:SKIP"
- string `FORCE_SYNC` = "CR:FORCE\_SYNC"
- string `NO_IDEA` = "CR:NO\_IDEA"

### 1.97.1 Member Data Documentation

1.97.1.1 `string parsley.sync.infs.common.ConflictResolution.FORCE_SYNC = "CR:FORCE_SYNC" [static]`

1.97.1.2 `string parsley.sync.infs.common.ConflictResolution.NO_IDEA = "CR:NO_IDEA" [static]`

1.97.1.3 `string parsley.sync.infs.common.ConflictResolution.SKIP = "CR:SKIP" [static]`

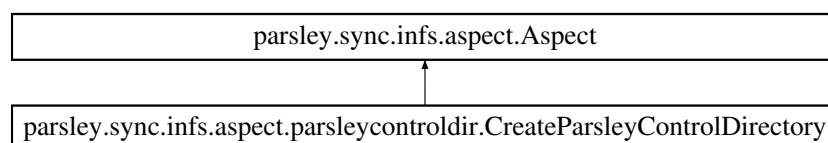
The documentation for this class was generated from the following file:

- [parsley/sync/infs/common.py](#)

## 1.98 parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory Class Reference

Takes care that the parsley control directory exists.

Inheritance diagram for `parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory`:



## Public Member Functions

- def `__init__`
- def `hook`

## Static Private Member Functions

- def `_create_controldir`  
*Ensures that the parsley control dir `.parsley.control` exists (only executed when in the root path).*

### 1.98.1 Detailed Description

Takes care that the parsley control directory exists.

### 1.98.2 Constructor & Destructor Documentation

1.98.2.1 `def parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory.__init__( self )`

### 1.98.3 Member Function Documentation

1.98.3.1 `def parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory._create_controldir( fs ) [static], [private]`

Ensures that the parsley control dir `.parsley.control` exists (only executed when in the root path).

1.98.3.2 `def parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory.hook( self, machine, isglobal, fss )`

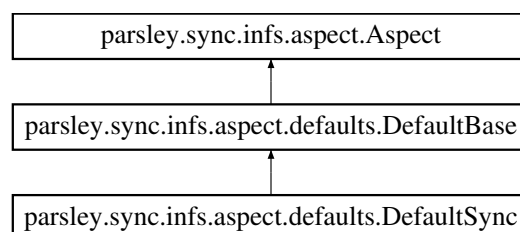
The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/parsleycontroldir.py`

## 1.99 parsley.sync.infs.aspect.defaults.DefaultBase Class Reference

Basic part of default behavior for a plain synchronization.

Inheritance diagram for `parsley.sync.infs.aspect.defaults.DefaultBase`:



## Public Member Functions

- def `__init__`
- def `hook`

### 1.99.1 Detailed Description

Basic part of default behavior for a plain synchronization.

### 1.99.2 Constructor & Destructor Documentation

1.99.2.1 `def parsley.sync.infs.aspect.defaults.DefaultBase.__init__( self )`

### 1.99.3 Member Function Documentation

1.99.3.1 `def parsley.sync.infs.aspect.defaults.DefaultBase.hook( self, machine, isglobal, fss )`

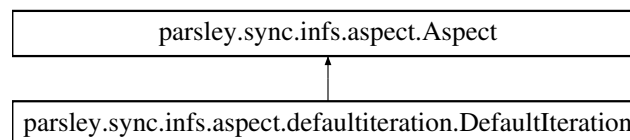
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/defaults.py](#)

## 1.100 parsley.sync.infs.aspect.defaultiteration.DefaultIteration Class Reference

Lists child elements via the filesystem.

Inheritance diagram for `parsley.sync.infs.aspect.defaultiteration.DefaultIteration`:



### Public Member Functions

- `def __init__`
- `def hook`

### Static Private Member Functions

- `def _getlist_from_filesystem`  
*Adds all the child entries to the list (as returned by underlying the filesystem).*

### 1.100.1 Detailed Description

Lists child elements via the filesystem.

### 1.100.2 Constructor & Destructor Documentation

1.100.2.1 `def parsley.sync.infs.aspect.defaultiteration.DefaultIteration.__init__( self )`

### 1.100.3 Member Function Documentation

1.100.3.1 `def parsley.sync.infs.aspect.defaultiteration.DefaultIteration._getlist_from_filesystem( fs ) [static], [private]`

Adds all the child entries to the list (as returned by underlying the filesystem).

1.100.3.2 `def parsley.sync.infs.aspect.defaultiteration.DefaultIteration.hook ( self, machine, isglobal, fss )`

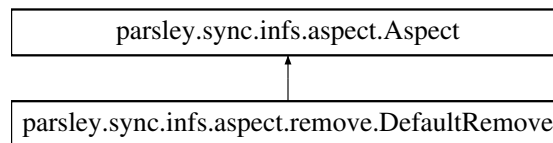
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/defaultiteration.py](#)

## 1.101 `parsley.sync.infs.aspect.remove.DefaultRemove` Class Reference

Default removal strategy without a trashbin.

Inheritance diagram for `parsley.sync.infs.aspect.remove.DefaultRemove`:



### Public Member Functions

- `def __init__`
- `def hook`

### Static Private Member Functions

- `def _removefile`  
*Removes the file or link from the filesystem.*

#### 1.101.1 Detailed Description

Default removal strategy without a trashbin.

#### 1.101.2 Constructor & Destructor Documentation

1.101.2.1 `def parsley.sync.infs.aspect.remove.DefaultRemove.__init__ ( self )`

#### 1.101.3 Member Function Documentation

1.101.3.1 `def parsley.sync.infs.aspect.remove.DefaultRemove._removefile ( fs, machine )` [static],[private]

Removes the file or link from the filesystem.

1.101.3.2 `def parsley.sync.infs.aspect.remove.DefaultRemove.hook ( self, machine, isglobal, fss )`

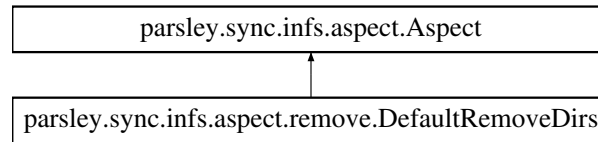
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/remove.py](#)

## 1.102 parsley.sync.infs.aspect.remove.DefaultRemoveDirs Class Reference

Removes directories via the filesystem.

Inheritance diagram for parsley.sync.infs.aspect.remove.DefaultRemoveDirs:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

### Static Private Member Functions

- def [\\_removedir](#)  
*Removes a directory (recursively or safely) in the filesystem.*

#### 1.102.1 Detailed Description

Removes directories via the filesystem.

#### 1.102.2 Constructor & Destructor Documentation

1.102.2.1 def parsley.sync.infs.aspect.remove.DefaultRemoveDirs.\_\_init\_\_( self )

#### 1.102.3 Member Function Documentation

1.102.3.1 def parsley.sync.infs.aspect.remove.DefaultRemoveDirs.\_removedir( fs ) [static],[private]

Removes a directory (recursively or safely) in the filesystem.

1.102.3.2 def parsley.sync.infs.aspect.remove.DefaultRemoveDirs.hook( self, machine, isglobal, fss )

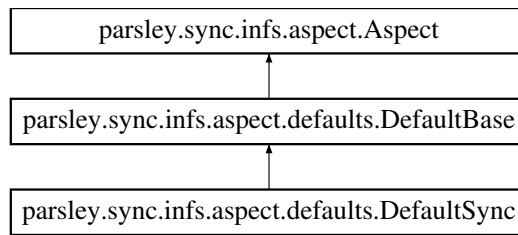
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/remove.py](#)

## 1.103 parsley.sync.infs.aspect.defaults.DefaultSync Class Reference

Default behavior for a plain synchronization.

Inheritance diagram for parsley.sync.infs.aspect.defaults.DefaultSync:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

### 1.103.1 Detailed Description

Default behavior for a plain synchronization.

### 1.103.2 Constructor & Destructor Documentation

1.103.2.1 def parsley.sync.infs.aspect.defaults.DefaultSync.\_\_init\_\_( self )

### 1.103.3 Member Function Documentation

1.103.3.1 def parsley.sync.infs.aspect.defaults.DefaultSync.hook( self, machine, isglobal, fss )

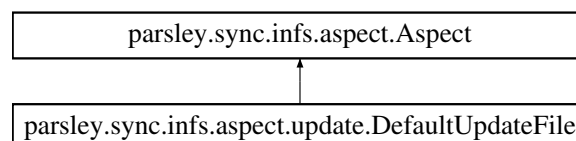
The documentation for this class was generated from the following file:

- parsley/sync/infs/aspect/[defaults.py](#)

## 1.104 parsley.sync.infs.aspect.update.DefaultUpdateFile Class Reference

Default handling for updating files.

Inheritance diagram for parsley.sync.infs.aspect.update.DefaultUpdateFile:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Static Private Member Functions

- def [\\_skip\\_identical](#)  
*Skips a file entry if the files have identical mtime in both filesystems.*



- [def \\_log\\_and\\_skip\\_updateconflict](#)  
*Checks if a file entry stays in an update conflict (by mtime comparisons) and if so, log a warning and skip the entry.*
- [def \\_updatefile](#)  
*Updates the file in the filesystem.*

### 1.104.1 Detailed Description

Default handling for updating files.

### 1.104.2 Constructor & Destructor Documentation

1.104.2.1 `def parsley.sync.infs.aspect.update.DefaultUpdateFile.__init__( self )`

### 1.104.3 Member Function Documentation

1.104.3.1 `def parsley.sync.infs.aspect.update.DefaultUpdateFile._log_and_skip_updateconflict ( fs, machine )`  
[static], [private]

Checks if a file entry stays in an update conflict (by mtime comparisons) and if so, log a warning and skip the entry.

1.104.3.2 `def parsley.sync.infs.aspect.update.DefaultUpdateFile._skip_identical ( fs, machine )` [static], [private]

Skips a file entry if the files have identical mtime in both filesystems.

1.104.3.3 `def parsley.sync.infs.aspect.update.DefaultUpdateFile._updatefile ( fs, machine )` [static], [private]

Updates the file in the filesystem.

1.104.3.4 `def parsley.sync.infs.aspect.update.DefaultUpdateFile.hook ( self, machine, isglobal, fss )`

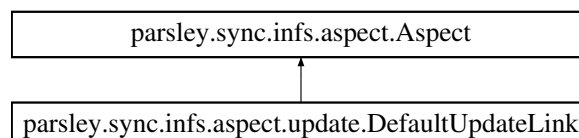
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/update.py](#)

## 1.105 parsley.sync.infs.aspect.update.DefaultUpdateLink Class Reference

Default handling for updating links.

Inheritance diagram for `parsley.sync.infs.aspect.update.DefaultUpdateLink`:



### Public Member Functions

- [def \\_\\_init\\_\\_](#)
- [def hook](#)

## Static Private Member Functions

- `def _skip_identical`  
*Skips a link entry if it has the same link target in both filesystems.*
- `def _log_and_skip_updateconflict`  
*Checks if a link entry stays in an update conflict (by link target comparisons) and if so, log a warning and skip the entry.*
- `def _updatelink`  
*Updates the link in the filesystem.*

### 1.105.1 Detailed Description

Default handling for updating links.

### 1.105.2 Constructor & Destructor Documentation

1.105.2.1 `def parsley.sync.infs.aspect.update.DefaultUpdateLink.__init__( self )`

### 1.105.3 Member Function Documentation

1.105.3.1 `def parsley.sync.infs.aspect.update.DefaultUpdateLink._log_and_skip_updateconflict ( fs, machine )`  
[static],[private]

Checks if a link entry stays in an update conflict (by link target comparisons) and if so, log a warning and skip the entry.

1.105.3.2 `def parsley.sync.infs.aspect.update.DefaultUpdateLink._skip_identical ( fs, machine )` [static],[private]

Skips a link entry if it has the same link target in both filesystems.

1.105.3.3 `def parsley.sync.infs.aspect.update.DefaultUpdateLink._updatelink ( fs, machine )` [static],[private]

Updates the link in the filesystem.

1.105.3.4 `def parsley.sync.infs.aspect.update.DefaultUpdateLink.hook ( self, machine, isglobal, fss )`

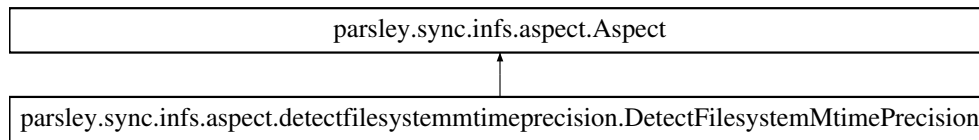
The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/update.py`

## 1.106 parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtime-Precision Class Reference

Handles filesystems with mtime precision only on level of seconds.

Inheritance diagram for `parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision`:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Static Private Member Functions

- def [\\_enable\\_workaround\\_if\\_needed](#)  
*Detects if the filesystem has time a precision on millisecond level and otherwise enables a workaround in all filesystems.*

### 1.106.1 Detailed Description

Handles filesystems with mtime precision only on level of seconds.

### 1.106.2 Constructor & Destructor Documentation

1.106.2.1 def parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision.\_\_init\_\_( self )

### 1.106.3 Member Function Documentation

1.106.3.1 def parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision.\_enable\_workaround\_if\_needed( fs, machine ) [static],[private]

Detects if the filesystem has time a precision on millisecond level and otherwise enables a workaround in *all* filesystems.

1.106.3.2 def parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFilesystemMtimePrecision.hook( self, machine, isglobal, fss )

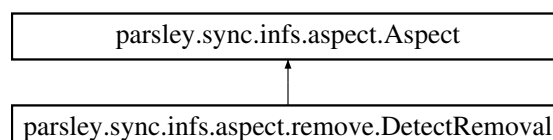
The documentation for this class was generated from the following file:

- parsley/sync/infs/aspect/[detectfilesystemmtimeprecision.py](#)

## 1.107 parsley.sync.infs.aspect.remove.DetectRemoval Class Reference

Detects removed entries.

Inheritance diagram for parsley.sync.infs.aspect.remove.DetectRemoval:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Static Private Member Functions

- def [\\_electbymtime\\_removedentry](#)  
*Detects if an entry is to be removed and if so, returns the current time as election key.*

### 1.107.1 Detailed Description

Detects removed entries.

### 1.107.2 Constructor & Destructor Documentation

1.107.2.1 def parsley.sync.infs.aspect.remove.DetectRemoval.\_\_init\_\_( self )

### 1.107.3 Member Function Documentation

1.107.3.1 def parsley.sync.infs.aspect.remove.DetectRemoval.\_electbymtime\_removedentry( fs, machine ) [static], [private]

Detects if an entry is to be removed and if so, returns the current time as election key.

1.107.3.2 def parsley.sync.infs.aspect.remove.DetectRemoval.hook( self, machine, isglobal, fss )

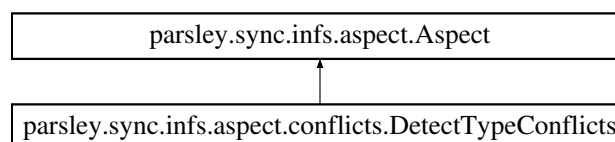
The documentation for this class was generated from the following file:

- parsley/sync/infs/aspect/[remove.py](#)

## 1.108 parsley.sync.infs.aspect.conflicts.DetectTypeConflicts Class Reference

Handles file conflicts between two filesystems (file vs directory, for example).

Inheritance diagram for parsley.sync.infs.aspect.conflicts.DetectTypeConflicts:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Static Private Member Functions

- [def \\_log\\_and\\_skip](#)  
*Skips this entry as conflict resolution strategy (with logged warning).*

### 1.108.1 Detailed Description

Handles file conflicts between two filesystems (file vs directory, for example).

### 1.108.2 Constructor & Destructor Documentation

- 1.108.2.1 `def parsley.sync.infs.aspect.conflicts.DetectTypeConflicts.__init__( self )`

### 1.108.3 Member Function Documentation

- 1.108.3.1 `def parsley.sync.infs.aspect.conflicts.DetectTypeConflicts._log_and_skip( fs, machine )` [static], [private]

Skips this entry as conflict resolution strategy (with logged warning).

- 1.108.3.2 `def parsley.sync.infs.aspect.conflicts.DetectTypeConflicts.hook( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/conflicts.py`

## 1.109 parsley.test.testhelper\_ssh.Disturbator Class Reference

### Public Member Functions

- `def __init__`
- `def __enter__`
- `def __exit__`
- `def d_iptables`
- `def d_killmounter`
- `def d_killserver`
- `def disturb`
- `def thread`
- `def start`
- `def terminate`

### Public Attributes

- `conn_oh`
- `mydir`
- `starttime`
- `terminated`
- `on`
- `tempssh`
- `t`
- `disturbinterval`

### 1.109.1 Constructor & Destructor Documentation

1.109.1.1 `def parsley.test.testhelper_ssh.Disturbator.__init__( self, conn Oh, tempssh, mydir, disturbinterval = 16 )`

### 1.109.2 Member Function Documentation

1.109.2.1 `def parsley.test.testhelper_ssh.Disturbator.__enter__( self )`

1.109.2.2 `def parsley.test.testhelper_ssh.Disturbator.__exit__( self, exc_type, exc_val, exc_tb )`

1.109.2.3 `def parsley.test.testhelper_ssh.Disturbator.d_iptables ( self )`

1.109.2.4 `def parsley.test.testhelper_ssh.Disturbator.d_killmounter ( self )`

1.109.2.5 `def parsley.test.testhelper_ssh.Disturbator.d_killserver ( self )`

1.109.2.6 `def parsley.test.testhelper_ssh.Disturbator.disturb ( self )`

1.109.2.7 `def parsley.test.testhelper_ssh.Disturbator.start ( self )`

1.109.2.8 `def parsley.test.testhelper_ssh.Disturbator.terminate ( self )`

1.109.2.9 `def parsley.test.testhelper_ssh.Disturbator.thread ( self )`

### 1.109.3 Member Data Documentation

1.109.3.1 `parsley.test.testhelper_ssh.Disturbator.conn Oh`

1.109.3.2 `parsley.test.testhelper_ssh.Disturbator.disturbinterval`

1.109.3.3 `parsley.test.testhelper_ssh.Disturbator.mydir`

1.109.3.4 `parsley.test.testhelper_ssh.Disturbator.on`

1.109.3.5 `parsley.test.testhelper_ssh.Disturbator.starttime`

1.109.3.6 `parsley.test.testhelper_ssh.Disturbator.t`

1.109.3.7 `parsley.test.testhelper_ssh.Disturbator.tempssh`

1.109.3.8 `parsley.test.testhelper_ssh.Disturbator.terminated`

The documentation for this class was generated from the following file:

- `parsley/test/testhelper_ssh.py`

## 1.110 parsley.sync.infs.common.ElectionControl Class Reference

### Static Public Attributes

- string `SKIP` = "E:SKIP"

### 1.110.1 Member Data Documentation

1.110.1.1 `string parsley.sync.infs.common.ElectionControl.SKIP = "E:SKIP"` `[static]`

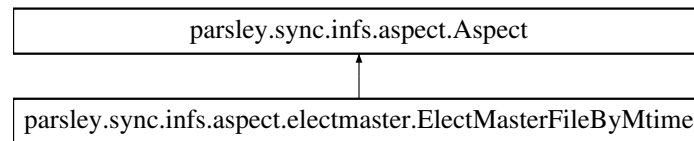
The documentation for this class was generated from the following file:

- [parsley/sync/infs/common.py](#)

## 1.111 parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime Class Reference

Elects a master file by mtime.

Inheritance diagram for `parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime`:



### Public Member Functions

- `def __init__`
- `def hook`

### Static Private Member Functions

- `def _electbymtime`  
*Returns the mtime of this entry as election key.*

#### 1.111.1 Detailed Description

Elects a master file by mtime.

Default master election strategy for files.

#### 1.111.2 Constructor & Destructor Documentation

1.111.2.1 `def parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime.__init__( self )`

#### 1.111.3 Member Function Documentation

1.111.3.1 `def parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime._electbymtime ( fs, machine ) [static], [private]`

Returns the mtime of this entry as election key.

1.111.3.2 `def parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime.hook ( self, machine, isglobal, fss )`

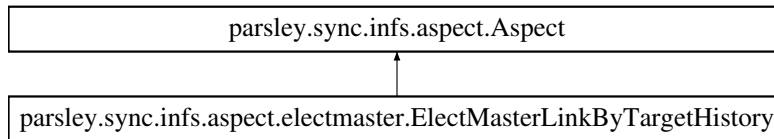
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/electmaster.py](#)

## 1.112 `parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory` Class Reference

Elects a master link by changes in history.

Inheritance diagram for `parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory`:



### Public Member Functions

- def `__init__`
- def `hook`

### Static Private Member Functions

- def `_electbychangedflag`  
Returns 0 if the link remained unchanged since last sync, or 1 otherwise as election key.

#### 1.112.1 Detailed Description

Elects a master link by changes in history.

Default master election strategy for links.

#### 1.112.2 Constructor & Destructor Documentation

1.112.2.1 `def parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory.__init__( self )`

#### 1.112.3 Member Function Documentation

1.112.3.1 `def parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory._electbychangedflag ( fs, machine )`  
[static], [private]

Returns 0 if the link remained unchanged since last sync, or 1 otherwise as election key.

1.112.3.2 `def parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory.hook ( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/electmaster.py`

## 1.113 `parsley.engine.Engine` Class Reference

The parsley engine.



## Public Member Functions

- def [execute](#)  
*Executes the selected synchronization tasks.*
- def [executesync](#)

### 1.113.1 Detailed Description

The parsley engine.

It is the lowest (or highest, if you will) layer, which coordinates all the synchronization work.

### 1.113.2 Member Function Documentation

1.113.2.1 `def parsley.engine.Engine.execute ( self, syncs, datadir, syncname = None, logging = [], throwexceptions = False )`

Executes the selected synchronization tasks.

Parameters

<i>syncs</i>	a list of synchronization tasks existing in your configuration.
<i>datadir</i>	which directory to use for persistent control data (file lists, ...)
<i>syncname</i>	which sync task shall be executed (None: all)
<i>logging</i>	list of loggers of logging output
<i>throwexceptions</i>	should exceptions be raised in error case?

1.113.2.2 `def parsley.engine.Engine.executesync ( self, sync, runtime, force = False, throwexceptions = True )`

The documentation for this class was generated from the following file:

- [parsley/engine.py](#)

## 1.114 parsley.sync.infs.entrylist.EntryList Class Reference

### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [foundfile](#)
- def [updatefile](#)
- def [removefile](#)
- def [savetofile](#)
- def [readfromfile](#)
- def [exists](#)
- def [getftype](#)
- def [getsize](#)
- def [getmtime](#)
- def [getparam](#)

### Public Attributes

- [d](#)

### 1.114.1 Constructor & Destructor Documentation

1.114.1.1 `def parsley.sync.infs.entrylist.EntryList.__init__( self )`

### 1.114.2 Member Function Documentation

1.114.2.1 `def parsley.sync.infs.entrylist.EntryList.exists( self, path )`

1.114.2.2 `def parsley.sync.infs.entrylist.EntryList.foundfile( self, path, ftype, size, mtime, param )`

1.114.2.3 `def parsley.sync.infs.entrylist.EntryList.getftype( self, path )`

1.114.2.4 `def parsley.sync.infs.entrylist.EntryList.getmtime( self, path )`

1.114.2.5 `def parsley.sync.infs.entrylist.EntryList.getparam( self, path )`

1.114.2.6 `def parsley.sync.infs.entrylist.EntryList.getsize( self, path )`

1.114.2.7 `def parsley.sync.infs.entrylist.EntryList.readfromfile( self, f )`

1.114.2.8 `def parsley.sync.infs.entrylist.EntryList.removefile( self, path )`

1.114.2.9 `def parsley.sync.infs.entrylist.EntryList.savetofile( self, f )`

1.114.2.10 `def parsley.sync.infs.entrylist.EntryList.updatefile( self, path, ftype, size, mtime, param )`

### 1.114.3 Member Data Documentation

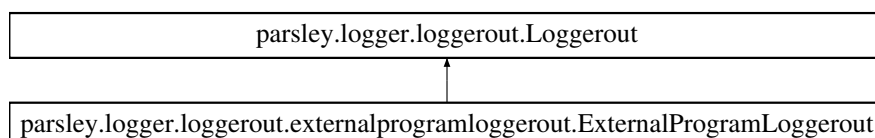
1.114.3.1 `parsley.sync.infs.entrylist.EntryList.d`

The documentation for this class was generated from the following file:

- [parsley/sync/infs/entrylist.py](#)

## 1.115 parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout Class Reference

Inheritance diagram for `parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout`:



### Public Member Functions

- `def __init__`
- `def log`
- `def flush`

## Public Attributes

- [cmdline](#)
- [cont](#)

### 1.115.1 Constructor & Destructor Documentation

1.115.1.1 `def parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout.__init__( self, cmdline )`

### 1.115.2 Member Function Documentation

1.115.2.1 `def parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout.flush( self, wasused )`

1.115.2.2 `def parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout.log( self, content )`

### 1.115.3 Member Data Documentation

1.115.3.1 `parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout.cmdline`

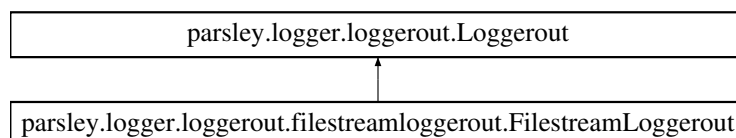
1.115.3.2 `parsley.logger.loggerout.externalprogramloggerout.ExternalProgramLoggerout.cont`

The documentation for this class was generated from the following file:

- `parsley/logger/loggerout/externalprogramloggerout.py`

## 1.116 parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout Class Reference

Inheritance diagram for `parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout`:



## Public Member Functions

- `def __init__`
- `def log`
- `def flush`

## Public Attributes

- [filename](#)

### 1.116.1 Constructor & Destructor Documentation

1.116.1.1 `def parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout.__init__( self, filename = None )`

### 1.116.2 Member Function Documentation

1.116.2.1 `def parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout.flush ( self, wasused )`

1.116.2.2 `def parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout.log ( self, content )`

### 1.116.3 Member Data Documentation

1.116.3.1 `parsley.logger.loggerout.filestreamloggerout.FilestreamLoggerout.filename`

The documentation for this class was generated from the following file:

- `parsley/logger/loggerout/filestreamloggerout.py`

## 1.117 `parsley.sync.infs.filesystem.Filesystem` Class Reference

### Public Member Functions

- `def __init__`
- `def listdir`
- `def copyfile`
- `def removefile`
- `def createdirs`
- `def removedir`
- `def createlink`
- `def removelink`
- `def move`
- `def getftype`
- `def exists`
- `def getsize`
- `def getmtime`
- `def getlinktarget`
- `def getfulllocalpath`
- `def writetofile`
- `def listxattrkeys`
- `def getxattrvalue`
- `def setxattrvalue`
- `def unsetxattrvalue`
- `def initialize`
- `def shutdown`

### Public Attributes

- `aspects`
- `name`

### Static Public Attributes

- string `File` = "FILE"
- string `Link` = "LINK"
- string `Directory` = "DIRECTORY"

### 1.117.1 Constructor & Destructor Documentation

1.117.1.1 `def parsley.sync.infs.filesystem.Filesystem.__init__( self, aspects, name )`

### 1.117.2 Member Function Documentation

1.117.2.1 `def parsley.sync.infs.filesystem.Filesystem.copyfile( self, srcpath, dstpath, expecteddestmtime=None )`

1.117.2.2 `def parsley.sync.infs.filesystem.Filesystem.createdirs( self, path )`

1.117.2.3 `def parsley.sync.infs.filesystem.Filesystem.createlink( self, srcpath, dstpath )`

1.117.2.4 `def parsley.sync.infs.filesystem.Filesystem.exists( self, path )`

1.117.2.5 `def parsley.sync.infs.filesystem.Filesystem.getftype( self, path )`

1.117.2.6 `def parsley.sync.infs.filesystem.Filesystem.getfulllocalpath( self, path )`

1.117.2.7 `def parsley.sync.infs.filesystem.Filesystem.getlinktarget( self, path )`

1.117.2.8 `def parsley.sync.infs.filesystem.Filesystem.getmtime( self, path )`

1.117.2.9 `def parsley.sync.infs.filesystem.Filesystem.getsize( self, path )`

1.117.2.10 `def parsley.sync.infs.filesystem.Filesystem.getxattrvalue( self, path, key )`

1.117.2.11 `def parsley.sync.infs.filesystem.Filesystem.initialize( self, infssync, runtime )`

1.117.2.12 `def parsley.sync.infs.filesystem.Filesystem.listdir( self, path )`

1.117.2.13 `def parsley.sync.infs.filesystem.Filesystem.listxattrkeys( self, path )`

1.117.2.14 `def parsley.sync.infs.filesystem.Filesystem.move( self, path, dst )`

1.117.2.15 `def parsley.sync.infs.filesystem.Filesystem.removedir( self, path, recursive=False )`

1.117.2.16 `def parsley.sync.infs.filesystem.Filesystem.removefile( self, path )`

1.117.2.17 `def parsley.sync.infs.filesystem.Filesystem.removelink( self, path )`

1.117.2.18 `def parsley.sync.infs.filesystem.Filesystem.setxattrvalue( self, path, key, value )`

1.117.2.19 `def parsley.sync.infs.filesystem.Filesystem.shutdown( self, infssync, runtime )`

1.117.2.20 `def parsley.sync.infs.filesystem.Filesystem.unsetxattrvalue( self, path, key )`

1.117.2.21 `def parsley.sync.infs.filesystem.Filesystem.writetofile( self, path, content )`

### 1.117.3 Member Data Documentation

1.117.3.1 `parsley.sync.infs.filesystem.Filesystem.aspects`

1.117.3.2 `string parsley.sync.infs.filesystem.Filesystem.Directory = "DIRECTORY" [static]`

1.117.3.3 `string parsley.sync.infs.filesystem.Filesystem.File = "FILE" [static]`

1.117.3.4 `string parsley.sync.infs.filesystem.Filesystem.Link = "LINK" [static]`

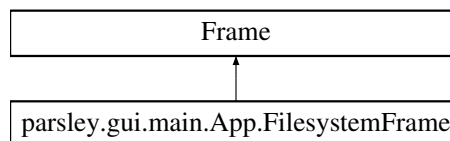
1.117.3.5 `parsley.sync.infs.filesystem.Filesystem.name`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/filesystem/__init__.py`

## 1.118 parsley.gui.main.App.FilesystemFrame Class Reference

Inheritance diagram for `parsley.gui.main.App.FilesystemFrame`:



### Public Member Functions

- `def __init__`
- `def getvalue`
- `def serialize`
- `def deserialize`

### Public Attributes

- `number`
- `lblFilesystem`
- `frameFilesystemRow1`
- `lblPath`
- `txtPath`
- `frameFilesystemRow2`
- `varSsh`
- `chkSsh`
- `lblPort`
- `txtPort`
- `lblIdfile`
- `txtIdfile`

### Private Member Functions

- `def _sshchanged`

### 1.118.1 Constructor & Destructor Documentation

1.118.1.1 `def parsley.gui.main.App.FilesystemFrame.__init__( self, parent, caption )`

### 1.118.2 Member Function Documentation

1.118.2.1 `def parsley.gui.main.App.FilesystemFrame._sshchanged ( self ) [private]`

1.118.2.2 `def parsley.gui.main.App.FilesystemFrame.deserialize ( self, s )`

1.118.2.3 `def parsley.gui.main.App.FilesystemFrame.getvalue ( self )`

1.118.2.4 `def parsley.gui.main.App.FilesystemFrame.serialize ( self )`

### 1.118.3 Member Data Documentation

1.118.3.1 `parsley.gui.main.App.FilesystemFrame.chkSsh`

1.118.3.2 `parsley.gui.main.App.FilesystemFrame.frameFilesystemRow1`

1.118.3.3 `parsley.gui.main.App.FilesystemFrame.frameFilesystemRow2`

1.118.3.4 `parsley.gui.main.App.FilesystemFrame.lblFilesystem`

1.118.3.5 `parsley.gui.main.App.FilesystemFrame.lblIdfile`

1.118.3.6 `parsley.gui.main.App.FilesystemFrame.lblPath`

1.118.3.7 `parsley.gui.main.App.FilesystemFrame.lblPort`

1.118.3.8 `parsley.gui.main.App.FilesystemFrame.number`

1.118.3.9 `parsley.gui.main.App.FilesystemFrame.txtIdfile`

1.118.3.10 `parsley.gui.main.App.FilesystemFrame.txtPath`

1.118.3.11 `parsley.gui.main.App.FilesystemFrame.txtPort`

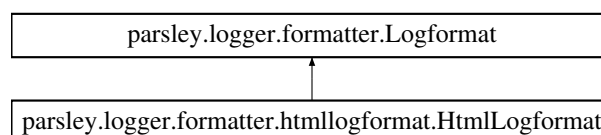
1.118.3.12 `parsley.gui.main.App.FilesystemFrame.varSsh`

The documentation for this class was generated from the following file:

- [parsley/gui/main.py](#)

## 1.119 parsley.logger.formatter.htmllogformat.HtmlLogformat Class Reference

Inheritance diagram for `parsley.logger.formatter.htmllogformat.HtmlLogformat`:



### Public Member Functions

- `def \_\_init\_\_`
- `def header`
- `def log`
- `def footer`

## Public Attributes

- [bgtoggle](#)
- [lastsync](#)

### 1.119.1 Constructor & Destructor Documentation

1.119.1.1 `def parsley.logger.formatter.htmllogformat.HtmlLogformat.__init__( self )`

### 1.119.2 Member Function Documentation

1.119.2.1 `def parsley.logger.formatter.htmllogformat.HtmlLogformat.footer ( self )`

1.119.2.2 `def parsley.logger.formatter.htmllogformat.HtmlLogformat.header ( self )`

1.119.2.3 `def parsley.logger.formatter.htmllogformat.HtmlLogformat.log ( self, sync, subject, verb, comment, severity, symbol )`

### 1.119.3 Member Data Documentation

1.119.3.1 `parsley.logger.formatter.htmllogformat.HtmlLogformat.bgtoggle`

1.119.3.2 `parsley.logger.formatter.htmllogformat.HtmlLogformat.lastsync`

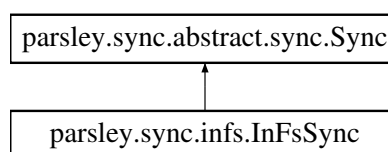
The documentation for this class was generated from the following file:

- `parsley/logger/formatter/htmllogformat.py`

## 1.120 parsley.sync.infs.InFsSync Class Reference

The included powerful synchronization implementation.

Inheritance diagram for `parsley.sync.infs.InFsSync`:



## Public Member Functions

- `def __init__`
- `def execute`
- `def initialize`
- `def shutdown`
- `def shutdown`

## Public Attributes

- [filenameacceptor](#)
- [filesystems](#)



- [aspects](#)
- [api](#)
- [host](#)
- [name](#)
- [cfgs](#)
- [fullname](#)
- [interval](#)
- [warn\\_after](#)
- [warn\\_interval](#)
- [warn\\_escalationfactor](#)
- [preparations](#)

## Private Member Functions

- `def _syncdirs`

### 1.120.1 Detailed Description

The included powerful synchronization implementation.

Parsley configuration files typically create some instances of this class.

It can synchronize files between some filesystems with a behavior defined by aspects. Put instances of [parsley.sync.infs.filesystem.Filesystem](#) and [parsley.sync.infs.aspect.Aspect](#) as parameters into this constructor for defining them.

Aspects as well as filesystems may be custom implementations, although parsley includes many useful implementations.

This synchronization task mostly is a workflow around event handlers which come from the aspects. They will be executed when a certain state in the workflow is reached. The following workflow description explains informally how the workflow is defined. The authoritative definition of course is the source code :-P

Be aware of some things:

- Whenever an event occurs, this description lists all the event handlers from all the aspects which are included in parsley. Other aspects which could come from outside are obviously not mentioned.
- Sometimes the aspects which own this event handlers are very common ones, and sometimes they are rather exotic. Please check which aspects are really included in your actual configuration.
- Aspects often inherit the behaviour of other ones. This is sometimes not even visible due to the class hierarchy; for technical reasons of course, not because i'm lazy ;) You can only find that out in the documentation (hint: from the 'subclasses' upwards) !
- Similar things are true for filesystem: They can also implicitly put new aspects into the configuration.
- The event handlers always get called in the defined order. This has a dramatic influence, since they often, for instance, can skip the following handlers.
- Sometimes the list simply mentions 'none', which then means just that :)
- Each event handler is (potentially, of course) called for each of the defined filesystems. This can also depend on the situation (the following text will mention that). However, every time an event handler eventually get executed, this happens upon one filesystem and for one entry specified by a relative path. Other parameters may exist as well (see the (linked) `SyncHooks` documentations).
- When an event occurs on more than one filesystem, the execution order can be grouped by filesystem first or by event handler first. The former means, at first all the handlers for filesystem 1 are executed, then all the handlers for filesystem 2, and so on. The latter one means, at first the first handler is executed for all filesystems, then the second handler is executed for all filesystems, and so on. You find this information in the `SyncHooks` documentations.

Before the base process begins, the `parsley.sync.infs.syncmachine.SyncHooks.onbeginsync` event occurs (note: this is an exceptional case of a event which is *not* called for a certain path!), which has the following handlers:

- none

The base process itself works recursively. It is called once at the beginning with a start parameter and from time to time calls itself (with a different parameter).

This parameter specifies the current directory, i.e. what the process should process in that run. This is relative to the root paths of the affected filesystems. Those paths aren't bound to a certain filesystem but should be seen as common locations (like `pics/a.jpg`). However, it may of course happen that a certain path does not exist on all involved filesystems.

When the recursive base process starts (as it is initially started on directory `/`), it calls `parsley.sync.infs.-syncmachine.SyncHooks.onbeginupdatedir` which has this handlers:

- `parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive._crash_if_disconnected1`
- `parsley.sync.infs.aspect.parsleycontroldir.CreateParsleyControlDirectory._create_controldir`
- `parsley.sync.infs.aspect.detectfilesystemmtimeprecision.DetectFileSystemMtimePrecision._enable_workaround-if_needed`
- `parsley.sync.infs.aspect.test18._beginupdatedir`

It then collects a list of all entries which live somewhere in the specified directory. By prepending the path of the current directory, we get the child path. It gets the list by calling `parsley.sync.infs.syncmachine.-SyncHooks.onlistdir` on each filesystem, which can mean this handlers:

- `parsley.sync.infs.aspect.defaultiteration.DefaultIteration._getlist_from_filesystem`

For each entry from that iteration, it does the following:

- It elects a master filesystem (the one which is considered as up-to-date). This will be used later as the source for update operations. It does so by calling `parsley.sync.infs.syncmachine.SyncHooks.-onselectmaster` with this handlers:
  - `parsley.sync.infs.aspect.applypathacceptor.ApplyPathAcceptor._skip_by_pathacceptor`
  - `parsley.sync.infs.aspect.collectinformation.CollectInformation._collectinfo`
  - `parsley.sync.infs.aspect.revisiontracking.RevisionTracking._store_current_version2`
  - `parsley.sync.infs.aspect.electmaster.ElectMasterFileByMtime._electbymtime`
  - `parsley.sync.infs.aspect.remove.DetectRemoval._electbymtime_removedentry`
  - `parsley.sync.infs.aspect.electmaster.ElectMasterLinkByTargetHistory._electbychangedflag`
- After the master filesystem is elected, the `parsley.sync.infs.syncmachine.SyncHooks.-onmasterelected` event with this handlers occur:
  - none
- If there is an existing entry with that child path on the master filesystem, do the following:
  - At first, check if the entry exists in all filesystems and has the same type in each (file, dir, link). If not, some events occur:
    - \* On the master filesystem, `parsley.sync.infs.syncmachine.SyncHooks.-ontypeconflictmaster` with this handlers:
      - `parsley.sync.infs.aspect.conflicts.DetectTypeConflicts._log_and_skip`
    - \* On the slave filesystem, `parsley.sync.infs.syncmachine.SyncHooks.ontypeconflictslave` with this handlers:

- none
- Afterwards, depending on the entry type (on the master), either `parsley.sync.infs.syncmachine.SyncHooks.onupdatefile` is called with this handlers:
  - \* `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink._rename_existing_to_new_name`
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateFile._skip_identical`
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateFile._log_and_skip_updateconflict`
  - \* `parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive._crash_if_disconnected2`
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateFile._updatefile`
  - \* `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink._remove_from_source_filesystem`
  - \* `parsley.sync.infs.aspect.permissions.ApplyPermissions._set_file_permissions`
  - \* `parsley.sync.infs.aspect.revisiontracking.RevisionTracking._store_current_version1`
- or `parsley.sync.infs.syncmachine.SyncHooks.onupdatelink` with handlers:
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateLink._skip_identical`
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateLink._log_and_skip_updateconflict`
  - \* `parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive._crash_if_disconnected2`
  - \* `parsley.sync.infs.aspect.update.DefaultUpdateLink._updatelink`
- or (for directories) the base process is now recursively called for that child directory.
- Afterwards, depending on the entry type it calls `parsley.sync.infs.syncmachine.SyncHooks.onendprocessfile` with:
  - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_file`
  - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_file`
  - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofilesystem_file`
  - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_file`
- or `parsley.sync.infs.syncmachine.SyncHooks.onendprocesslink` with handlers:
  - \* none
- otherwise, do the following:
  - depending on the entry type (on the master), either `parsley.sync.infs.syncmachine.SyncHooks.onremovefile` is called with:
    - \* `parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive._crash_if_disconnected2`
    - \* `parsley.sync.infs.aspect.remove.DefaultRemove._removefile`
    - \* `parsley.sync.infs.aspect.remove.TrashRemove._movetotrashbin`
    - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._removesshadow_file`
  - or `parsley.sync.infs.syncmachine.SyncHooks.onremovedir` (with *recursive flag*) with handlers:
    - \* `parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive._crash_if_disconnected2`
    - \* `parsley.sync.infs.aspect.remove.DefaultRemoveDirs._removedir`
  - or `parsley.sync.infs.syncmachine.SyncHooks.onremovelink` with handlers:
    - \* `parsley.sync.infs.aspect.peekfilesystemalive.PeekFilesystemAlive._crash_if_disconnected2`
    - \* `parsley.sync.infs.aspect.remove.DefaultRemove._removefile`
    - \* `parsley.sync.infs.aspect.remove.TrashRemove._movetotrashbin`
  - Afterwards, depending on the entry type it calls `parsley.sync.infs.syncmachine.SyncHooks.onendprocessfile` with:
    - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_file`
    - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_file`
    - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofilesystem_file`
    - \* `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_file`

- or `parsley.sync.infs.syncmachine.SyncHooks.onendprocesslink` with handlers:
  - \* none

At the end of the base process for that directory, it calls `parsley.sync.infs.syncmachine.SyncHooks.onendupdatedir` on it, with this handlers:

- `parsley.sync.infs.aspect.permissions.ApplyPermissions._set_dir_permissions`
- `parsley.sync.infs.aspect.remove.CleanupTrashBin._cleanup_trashbin`
- `parsley.sync.infs.aspect.remove.RemoveOrphanedDirs._remove_orphaned_dirs`
- `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_dir`
- `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._removesshadow_dir`
- `parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_dir`
- `parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofilesystem_dir`
- `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_dir`

When the base process is completely finished for the root directory (and thereby for *all* directories) it calls `parsley.sync.infs.syncmachine.SyncHooks.onendsync` with this handlers:

- none

There are also some technical events which occur not really for workflow reasons. Those are `parsley.sync.infs.syncmachine.SyncHooks.onlogcreate` with:

- `parsley.sync.infs.aspect.logging.Logging._logcreate`

and `parsley.sync.infs.syncmachine.SyncHooks.onlogremove` with:

- `parsley.sync.infs.aspect.logging.Logging._logremove`

and `parsley.sync.infs.syncmachine.SyncHooks.onlogupdate` with:

- `parsley.sync.infs.aspect.logging.Logging._logupdate`

and `parsley.sync.infs.syncmachine.SyncHooks.onlogproblem` with:

- `parsley.sync.infs.aspect.logging.Logging._logproblem`

## 1.120.2 Constructor & Destructor Documentation

1.120.2.1 `def parsley.sync.infs.InFsSync.__init__( self, a, filenameacceptor=None, b )`

## 1.120.3 Member Function Documentation

1.120.3.1 `def parsley.sync.infs.InFsSync._syncdirs ( self, path, runtime )` [private]

1.120.3.2 `def parsley.sync.infs.InFsSync.execute ( self, runtime )`

1.120.3.3 `def parsley.sync.infs.InFsSync.initialize ( self, runtime )`

1.120.3.4 `def parsley.sync.abstract.sync.Sync.shutdown ( self, runtime )` [inherited]

1.120.3.5 `def parsley.sync.infs.InFsSync.shutdown ( self, runtime, crashed )`

## 1.120.4 Member Data Documentation

1.120.4.1 `parsley.sync.infs.InFsSync.api`

1.120.4.2 `parsley.sync.infs.InFsSync.aspects`

1.120.4.3 `parsley.sync.abstract.sync.Sync.cfgs` [inherited]

1.120.4.4 `parsley.sync.infs.InFsSync.filenameacceptor`

1.120.4.5 `parsley.sync.infs.InFsSync.filesystems`

1.120.4.6 `parsley.sync.abstract.sync.Sync.fullname` [inherited]

1.120.4.7 `parsley.sync.abstract.sync.Sync.host` [inherited]

1.120.4.8 `parsley.sync.abstract.sync.Sync.interval` [inherited]

1.120.4.9 `parsley.sync.abstract.sync.Sync.name` [inherited]

1.120.4.10 `parsley.sync.abstract.sync.Sync.preparations` [inherited]

1.120.4.11 `parsley.sync.abstract.sync.Sync.warn_after` [inherited]

1.120.4.12 `parsley.sync.abstract.sync.Sync.warn_escalationfactor` [inherited]

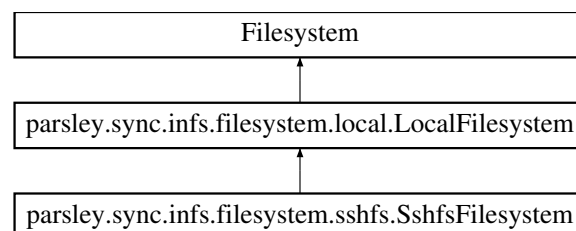
1.120.4.13 `parsley.sync.abstract.sync.Sync.warn_interval` [inherited]

The documentation for this class was generated from the following file:

- `parsley/sync/infs/__init__.py`

## 1.121 `parsley.sync.infs.filesystem.local.LocalFilesystem` Class Reference

Inheritance diagram for `parsley.sync.infs.filesystem.local.LocalFilesystem`:



### Public Member Functions

- `def __str__`
- `def __init__`
- `def listdir`

- def [copyfile](#)
- def [removefile](#)
- def [createdirs](#)
- def [removedir](#)
- def [createlink](#)
- def [removelink](#)
- def [move](#)
- def [getftype](#)
- def [exists](#)
- def [getsize](#)
- def [getmtime](#)
- def [getlinktarget](#)
- def [getfulllocalpath](#)
- def [writetofile](#)
- def [listattrkeys](#)
- def [getxattrvalue](#)
- def [setxattrvalue](#)
- def [unsetxattrvalue](#)
- def [initialize](#)

## Public Attributes

- [rootpath](#)

## Private Attributes

- [\\_enable\\_workaround\\_mtimeOnlyInt](#)

### 1.121.1 Constructor & Destructor Documentation

1.121.1.1 `def parsley.sync.infs.filesystem.local.LocalFilesystem.__init__( self, aspects, name, path )`

### 1.121.2 Member Function Documentation

1.121.2.1 `def parsley.sync.infs.filesystem.local.LocalFilesystem.__str__( self )`

1.121.2.2 `def parsley.sync.infs.filesystem.local.LocalFilesystem.copyfile( self, srcpath, dstpath, expecteddestmtime = None )`

1.121.2.3 `def parsley.sync.infs.filesystem.local.LocalFilesystem.createdirs( self, path )`

1.121.2.4 `def parsley.sync.infs.filesystem.local.LocalFilesystem.createlink( self, srcpath, dstpath )`

1.121.2.5 `def parsley.sync.infs.filesystem.local.LocalFilesystem.exists( self, path )`

1.121.2.6 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getftype( self, path )`

1.121.2.7 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getfulllocalpath( self, path )`

1.121.2.8 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getlinktarget( self, path )`

1.121.2.9 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getmtime( self, path )`

```

1.121.2.10 def parsley.sync.infs.filesystem.local.LocalFilesystem.getsize ( self, path )
1.121.2.11 def parsley.sync.infs.filesystem.local.LocalFilesystem.getxattrvalue ( self, path, key )
1.121.2.12 def parsley.sync.infs.filesystem.local.LocalFilesystem.initialize ( self, infssync, runtime )
1.121.2.13 def parsley.sync.infs.filesystem.local.LocalFilesystem.listdir ( self, path )
1.121.2.14 def parsley.sync.infs.filesystem.local.LocalFilesystem.listxattrkeys ( self, path )
1.121.2.15 def parsley.sync.infs.filesystem.local.LocalFilesystem.move ( self, path, dst )
1.121.2.16 def parsley.sync.infs.filesystem.local.LocalFilesystem.removedir ( self, path, recursive=False )
1.121.2.17 def parsley.sync.infs.filesystem.local.LocalFilesystem.removefile ( self, path )
1.121.2.18 def parsley.sync.infs.filesystem.local.LocalFilesystem.removelink ( self, path )
1.121.2.19 def parsley.sync.infs.filesystem.local.LocalFilesystem.setxattrvalue ( self, path, key, value )
1.121.2.20 def parsley.sync.infs.filesystem.local.LocalFilesystem.unsetxattrvalue ( self, path, key )
1.121.2.21 def parsley.sync.infs.filesystem.local.LocalFilesystem.writetofile ( self, path, content )

```

### 1.121.3 Member Data Documentation

```

1.121.3.1 parsley.sync.infs.filesystem.local.LocalFilesystem._enable_workaround_mtimeOnlyInt [private]
1.121.3.2 parsley.sync.infs.filesystem.local.LocalFilesystem.rootpath

```

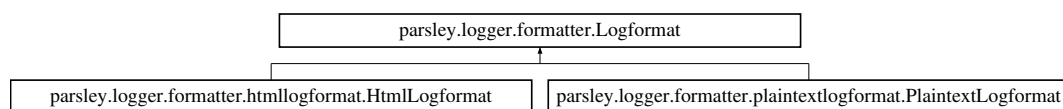
The documentation for this class was generated from the following file:

- [parsley/sync/infs/filesystem/local.py](#)

## 1.122 parsley.logger.formatter.Logformat Class Reference

Abstract base class for log message formatters (html, plain, ...)

Inheritance diagram for parsley.logger.formatter.Logformat:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [header](#)  
*Returns a header string for the log output (like an html header).*
- def [log](#)  
*Renders the information for one log message into a formatted string (plaintext, html, ...).*
- def [footer](#)  
*Returns a footer string for the log output (like an html footer).*

### 1.122.1 Detailed Description

Abstract base class for log message formatters (html, plain, ...)

### 1.122.2 Constructor & Destructor Documentation

1.122.2.1 `def parsley.logger.formatter.Logformat.__init__ ( self )`

### 1.122.3 Member Function Documentation

1.122.3.1 `def parsley.logger.formatter.Logformat.footer ( self )`

Returns a footer string for the log output (like an html footer).

1.122.3.2 `def parsley.logger.formatter.Logformat.header ( self )`

Returns a header string for the log output (like an html header).

1.122.3.3 `def parsley.logger.formatter.Logformat.log ( self, sync, subject, verb, comment, severity, symbol )`

Renders the information for one log message into a formatted string (plaintext, html, ...).

The documentation for this class was generated from the following file:

- `parsley/logger/formatter/_init_.py`

## 1.123 parsley.logger.logger.Logger Class Reference

Used by higher layers for logging messages.

### Public Member Functions

- `def __init__`
- `def log`  
*Logs a message.*
- `def flush`  
*Closes the logger and commits the content.*

### Public Attributes

- `loggerout`
- `formatter`
- `minseverity`
- `maxseverity`
- `used`

### 1.123.1 Detailed Description

Used by higher layers for logging messages.

Contains a `parsley.logger.formatter.Logformat` and a `parsley.logger.loggerout.Loggerout` and defines which severity span should actually be logged.



## 1.123.2 Constructor & Destructor Documentation

1.123.2.1 `def parsley.logger.logger.Logger.__init__( self, formatter, loggerout, minseverity = Severity.INFO, maxseverity = Severity.ERROR )`

## 1.123.3 Member Function Documentation

1.123.3.1 `def parsley.logger.logger.Logger.flush ( self )`

Closes the logger and commits the content.

1.123.3.2 `def parsley.logger.logger.Logger.log ( self, sync, subject, verb, comment, severity, symbol )`

Logs a message.

Parameters

<code>sync</code>	The name of the synchronization task which is presented as the source (arbitrary string).
-------------------	---

## 1.123.4 Member Data Documentation

1.123.4.1 `parsley.logger.logger.Logger.formatter`

1.123.4.2 `parsley.logger.logger.Logger.loggerout`

1.123.4.3 `parsley.logger.logger.Logger.maxseverity`

1.123.4.4 `parsley.logger.logger.Logger.minseverity`

1.123.4.5 `parsley.logger.logger.Logger.used`

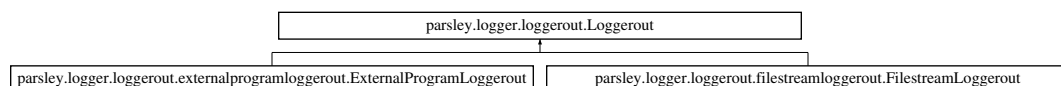
The documentation for this class was generated from the following file:

- [parsley/logger/logger.py](#)

## 1.124 parsley.logger.loggerout.Loggerout Class Reference

Abstract base class for log message sinks.

Inheritance diagram for `parsley.logger.loggerout.Loggerout`:



## Public Member Functions

- `def \_\_init\_\_`
- `def log`  
*Writes the rendered content to the logger (can be log messages, html header or footer, ...).*
- `def flush`  
*Commits the log content to the sink and closes the logger.*

### 1.124.1 Detailed Description

Abstract base class for log message sinks.

### 1.124.2 Constructor & Destructor Documentation

1.124.2.1 `def parsley.logger.loggerout.Loggerout.__init__( self )`

### 1.124.3 Member Function Documentation

1.124.3.1 `def parsley.logger.loggerout.Loggerout.flush( self, wasused )`

Commits the log content to the sink and closes the logger.

Parameters

<i>wasused</i>	if there was any useful logged message (instead of just headers and footers).
----------------	---

1.124.3.2 `def parsley.logger.loggerout.Loggerout.log( self, content )`

Writes the rendered content to the logger (can be log messages, html header or footer, ...).

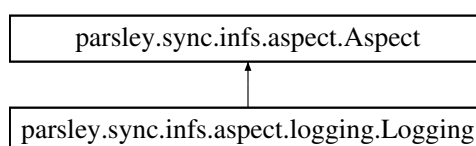
The documentation for this class was generated from the following file:

- [parsley/logger/loggerout/\\_\\_init\\_\\_.py](#)

## 1.125 parsley.sync.infs.aspect.logging.Logging Class Reference

Switchable logging by situation.

Inheritance diagram for `parsley.sync.infs.aspect.logging.Logging`:



### Public Member Functions

- `def __init__`
- `def hook`

### Public Attributes

- `logcreate`
- `logremove`
- `logupdate`
- `logproblem`

## Static Private Member Functions

- `def _logupdate`  
*Logs an entry update (only hooked if this is activated in aspect configuration).*
- `def _logremove`  
*Logs an entry removal (only hooked if this is activated in aspect configuration).*
- `def _logcreate`  
*Logs an entry creation (only hooked if this is activated in aspect configuration).*
- `def _logproblem`  
*Logs a problem (only hooked if this is activated in aspect configuration).*

### 1.125.1 Detailed Description

Switchable logging by situation.

### 1.125.2 Constructor & Destructor Documentation

1.125.2.1 `def parsley.sync.infs.aspect.logging.Logging.__init__( self, logcreate=False, logremove=False, logupdate=False, logproblem=True )`

### 1.125.3 Member Function Documentation

1.125.3.1 `def parsley.sync.infs.aspect.logging.Logging._logcreate( ) [static],[private]`

Logs an entry creation (only hooked if this is activated in aspect configuration).

1.125.3.2 `def parsley.sync.infs.aspect.logging.Logging._logproblem( ) [static],[private]`

Logs a problem (only hooked if this is activated in aspect configuration).

1.125.3.3 `def parsley.sync.infs.aspect.logging.Logging._logremove( ) [static],[private]`

Logs an entry removal (only hooked if this is activated in aspect configuration).

1.125.3.4 `def parsley.sync.infs.aspect.logging.Logging._logupdate( ) [static],[private]`

Logs an entry update (only hooked if this is activated in aspect configuration).

1.125.3.5 `def parsley.sync.infs.aspect.logging.Logging.hook( self, machine, isglobal, fss )`

### 1.125.4 Member Data Documentation

1.125.4.1 `parsley.sync.infs.aspect.logging.Logging.logcreate`

1.125.4.2 `parsley.sync.infs.aspect.logging.Logging.logproblem`

1.125.4.3 `parsley.sync.infs.aspect.logging.Logging.logremove`

1.125.4.4 `parsley.sync.infs.aspect.logging.Logging.logupdate`

The documentation for this class was generated from the following file:

- [parsley/sync/inf/aspect/logging.py](#)

## 1.126 `parsley.tools.sshxattrproxy.Mainloop` Class Reference

This program is not directly used in the process of the parsley engine but is copied to a remote system and controlled via an ssh session as a proxy for doing some tasks on this remote system, which cannot be done via an sshfs mount.

### Public Member Functions

- `def __init__`
- `def run`
- `def processrequest`

### Public Attributes

- `rootdir`
- `lastalive`
- `lastalivelock`
- `running`

### Private Member Functions

- `def _watchdog`

#### 1.126.1 Detailed Description

This program is not directly used in the process of the parsley engine but is copied to a remote system and controlled via an ssh session as a proxy for doing some tasks on this remote system, which cannot be done via an sshfs mount.

#### 1.126.2 Constructor & Destructor Documentation

1.126.2.1 `def parsley.tools.sshxattrproxy.Mainloop.__init__( self )`

#### 1.126.3 Member Function Documentation

1.126.3.1 `def parsley.tools.sshxattrproxy.Mainloop._watchdog( self )` `[private]`

1.126.3.2 `def parsley.tools.sshxattrproxy.Mainloop.processrequest( self, req )`

1.126.3.3 `def parsley.tools.sshxattrproxy.Mainloop.run( self )`

#### 1.126.4 Member Data Documentation

1.126.4.1 `parsley.tools.sshxattrproxy.Mainloop.lastalive`

1.126.4.2 `parsley.tools.sshxattrproxy.Mainloop.lastalivelock`

1.126.4.3 `parsley.tools.sshxattrproxy.Mainloop.rootdir`

1.126.4.4 `parsley.tools.sshxattrproxy.Mainloop.running`

The documentation for this class was generated from the following file:

- [parsley/tools/sshxattrproxy.py](#)

## 1.127 parsley.test.testhelper\_metadata.Metadata Class Reference

### Public Member Functions

- `def \_\_init\_\_`
- `def setfilemetadata`
- `def getfilemetadata`
- `def getshadowmetadata`
- `def setshadowmetadata`
- `def killshadowmetadata`

### Public Attributes

- [mydir](#)

### 1.127.1 Constructor & Destructor Documentation

1.127.1.1 `def parsley.test.testhelper_metadata.Metadata.__init__( self, mydir )`

### 1.127.2 Member Function Documentation

1.127.2.1 `def parsley.test.testhelper_metadata.Metadata.getfilemetadata ( self, p, k )`

1.127.2.2 `def parsley.test.testhelper_metadata.Metadata.getshadowmetadata ( self, p, k, hint_isdir=None )`

1.127.2.3 `def parsley.test.testhelper_metadata.Metadata.killshadowmetadata ( self, p )`

1.127.2.4 `def parsley.test.testhelper_metadata.Metadata.setfilemetadata ( self, p, k, v )`

1.127.2.5 `def parsley.test.testhelper_metadata.Metadata.setshadowmetadata ( self, p, k, v )`

### 1.127.3 Member Data Documentation

1.127.3.1 `parsley.test.testhelper_metadata.Metadata.mydir`

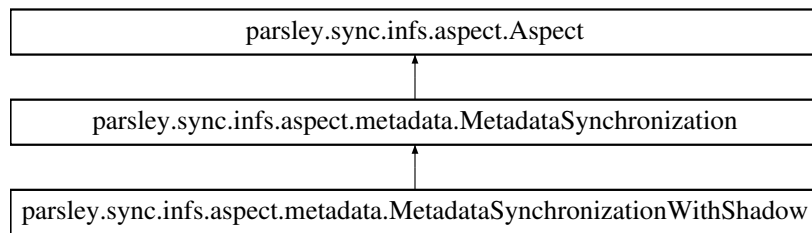
The documentation for this class was generated from the following file:

- [parsley/test/testhelper\\_metadata.py](#)

## 1.128 parsley.sync.infs.aspect.metadata.MetadataSynchronization Class Reference

Synchronizes metadata without a shadow storage (typical for the workstations)

Inheritance diagram for `parsley.sync.infs.aspect.metadata.MetadataSynchronization`:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

## Private Member Functions

- def [\\_taskdatakey](#)

## Static Private Member Functions

- def [\\_checkupdatesagainstshadow\\_helper](#)
- def [\\_propagatetofile\\_helper](#)
- def [\\_checkupdatesagainstshadow\\_dir](#)  
*Checks if this entry has a metadata update against the shadow storage.*
- def [\\_propagatetofilesystem\\_dir](#)  
*Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the filesystem (with exactly what it is now stored in-memory).*
- def [\\_checkupdatesagainstshadow\\_file](#)  
*Checks if this entry has a metadata update against the shadow storage.*
- def [\\_propagatetofilesystem\\_file](#)  
*Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the filesystem (with exactly what it is now stored in-memory).*

### 1.128.1 Detailed Description

Synchronizes metadata without a shadow storage (typical for the workstations)

### 1.128.2 Constructor & Destructor Documentation

1.128.2.1 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization.__init__( self )`

### 1.128.3 Member Function Documentation

1.128.3.1 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_dir( fs, machine, taskdatakey ) [static],[private]`

Checks if this entry has a metadata update against the shadow storage.

If so, it updates the version numbers (in the in-memory data structure).

1.128.3.2 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_file ( fs, machine, taskdatakey ) [static],[private]`

Checks if this entry has a metadata update against the shadow storage.

If so, it updates the version numbers (in the in-memory data structure).

1.128.3.3 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._checkupdatesagainstshadow_helper ( _fs, path, machine, runtime, taskdatakey ) [static],[private]`

1.128.3.4 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofile_helper ( _fs, path, machine, runtime, taskdatakey ) [static],[private]`

1.128.3.5 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofilesystem_dir ( fs, machine, taskdatakey ) [static],[private]`

Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the filesystem (with exactly what it is now stored in-memory).

1.128.3.6 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._propagatetofilesystem_file ( fs, machine, taskdatakey ) [static],[private]`

Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the filesystem (with exactly what it is now stored in-memory).

1.128.3.7 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization._taskdatakey ( self, runtime ) [private]`

1.128.3.8 `def parsley.sync.infs.aspect.metadata.MetadataSynchronization.hook ( self, machine, isglobal, fss )`

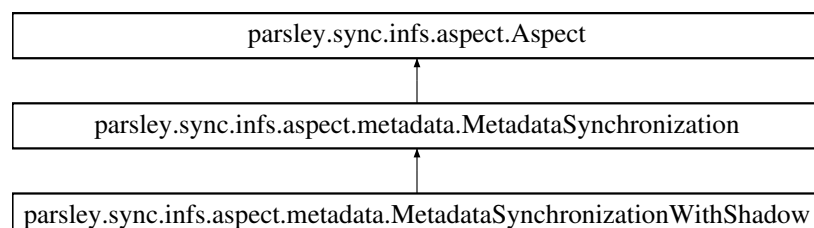
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/metadata.py](#)

## 1.129 parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow Class Reference

Synchronizes metadata with a shadow storage (typical for the file server)

Inheritance diagram for `parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow`:



### Public Member Functions

- `def __init__`
- `def hook`

## Static Private Member Functions

- `def _findhighestshadow_helper`
- `def _propagatetoshadow_helper`
- `def _findhighestshadow_dir`  
*Updates latestmd as stored in taskdata if this filesystem has a higher version in shadow.*
- `def _propagatetoshadow_dir`  
*Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the shadow storage (with exactly what it is now stored in-memory).*
- `def _findhighestshadow_file`  
*Updates latestmd as stored in taskdata if this filesystem has a higher version in shadow.*
- `def _propagatetoshadow_file`  
*Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the shadow storage (with exactly what it is now stored in-memory).*
- `def _removeshadow_dir`  
*Removes the shadow storage information for this entry, if it does not even exist anymore in the filesystem.*
- `def _removeshadow_file`  
*Removes the shadow storage information for this entry, if it does not even exist anymore in the filesystem.*

### 1.129.1 Detailed Description

Synchronizes metadata with a shadow storage (typical for the file server)

### 1.129.2 Constructor & Destructor Documentation

1.129.2.1 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow.__init__( self )`

### 1.129.3 Member Function Documentation

1.129.3.1 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_dir( fs, machine, taskdatakey ) [static],[private]`

Updates latestmd as stored in taskdata if this filesystem has a higher version in shadow.

1.129.3.2 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_file( fs, machine, taskdatakey ) [static],[private]`

Updates latestmd as stored in taskdata if this filesystem has a higher version in shadow.

1.129.3.3 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._findhighestshadow_helper( _fs, path, machine, runtime, taskdatakey ) [static],[private]`

1.129.3.4 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_dir( fs, machine, taskdatakey ) [static],[private]`

Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the shadow storage (with exactly what it is now stored in-memory).

1.129.3.5 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_file( fs, machine, taskdatakey ) [static],[private]`

Checks if metadata of the entry differ from the shadow storage information and, if so, updates the entry metadata in the shadow storage (with exactly what it is now stored in-memory).



1.129.3.6 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._propagatetoshadow_helper ( _fs, path, machine, runtime, taskdatakey ) [static], [private]`

1.129.3.7 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._removeshadow_dir ( fs ) [static], [private]`

Removes the shadow storage information for this entry, if it does not even exist anymore in the filesystem.

1.129.3.8 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow._removeshadow_file ( fs ) [static], [private]`

Removes the shadow storage information for this entry, if it does not even exist anymore in the filesystem.

1.129.3.9 `def parsley.sync.infs.aspect.metadata.MetadataSynchronizationWithShadow.hook ( self, machine, isglobal, fss )`

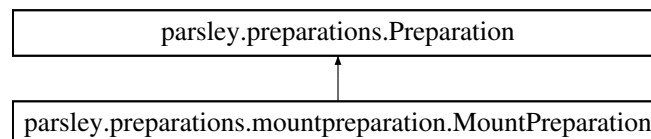
The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/metadata.py](#)

## 1.130 parsley.preparations.mountpreparation.MountPreparation Class Reference

Mounts filesystems to a mountpoint.

Inheritance diagram for `parsley.preparations.mountpreparation.MountPreparation`:



### Public Member Functions

- `def __init__`
- `def enable`
- `def disable`
- `def getstate`
- `def enable`  
*Runs the preparation work.*
- `def disable`  
*Undo the preparation after the synchronizaion (like unmounting).*
- `def getstate`  
*Checks if the preparation is successfully done or not.*
- `def ensuredisabledbefore`  
*Defines if this preparation is required to be disabled before the synchronization begins.*
- `def ensuredisabledafter`  
*Defines if this preparation is required to be disabled after the synchronization ended.*
- `def ensureenabled`  
*Defines if this preparation is required to be successful for the ongoing process of synchronization.*

## Public Attributes

- [src](#)
- [tgt](#)
- [opts](#)
- [tries](#)

## Static Private Member Functions

- [def \\_checkmountpointempty](#)

### 1.130.1 Detailed Description

Mounts filesystems to a mountpoint.

### 1.130.2 Constructor & Destructor Documentation

1.130.2.1 `def parsley.preparations.mountpreparation.MountPreparation.__init__( self, src, tgt, opts = [], kwa )`

### 1.130.3 Member Function Documentation

1.130.3.1 `def parsley.preparations.mountpreparation.MountPreparation._checkmountpointempty ( tgt )` [static], [private]

1.130.3.2 `def parsley.preparations.Preparation.disable ( self )` [inherited]

Undo the preparation after the synchronizaion (like unmounting).

1.130.3.3 `def parsley.preparations.mountpreparation.MountPreparation.disable ( self, runtime )`

1.130.3.4 `def parsley.preparations.Preparation.enable ( self )` [inherited]

Runs the preparation work.

1.130.3.5 `def parsley.preparations.mountpreparation.MountPreparation.enable ( self, runtime )`

1.130.3.6 `def parsley.preparations.Preparation.ensuredisabledafter ( self )` [inherited]

Defines if this preparation is required to be disabled after the synchronization ended.

For example, it is an error situation if a certain mountpoint is mounted even after this preparation has unmounted it.

1.130.3.7 `def parsley.preparations.Preparation.ensuredisabledbefore ( self )` [inherited]

Defines if this preparation is required to be disabled before the synchronization begins.

For example, it is an error situation if a certain mountpoint is already mounted before this preparation has mounted it.

1.130.3.8 `def parsley.preparations.Preparation.ensureenabled ( self ) [inherited]`

Defines if this preparation is required to be successful for the ongoing process of synchronization.

For example, a preparation which just does some uncritical cleanup, should not stop the complete synchronization if it fails.

1.130.3.9 `def parsley.preparations.Preparation.getstate ( self ) [inherited]`

Checks if the preparation is successfully done or not.

The parsley engine will check the state with this method at certain times and decide what to do depending on the state and the return values of `ensuredisabledbefore`, `ensuredisabledafter` and `ensureenabled`.

1.130.3.10 `def parsley.preparations.mountpreparation.MountPreparation.getstate ( self, runtime )`

## 1.130.4 Member Data Documentation

1.130.4.1 `parsley.preparations.mountpreparation.MountPreparation.opts`

1.130.4.2 `parsley.preparations.mountpreparation.MountPreparation.src`

1.130.4.3 `parsley.preparations.mountpreparation.MountPreparation.tgt`

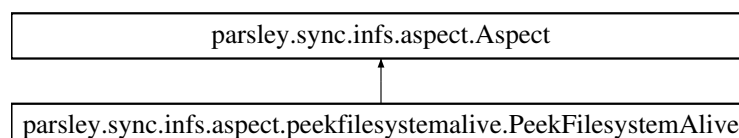
1.130.4.4 `parsley.preparations.Preparation.tries [inherited]`

The documentation for this class was generated from the following file:

- `parsley/preparations/mountpreparation.py`

## 1.131 `parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive` Class Reference

Inheritance diagram for `parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive`:



### Public Member Functions

- `def \_\_init\_\_`
- `def hook`

### Static Private Member Functions

- `def \_check`
- `def \_crash\_if\_disconnected1`  
Checks if the underlying filesystem is still connected and aborts the process otherwise.
- `def \_crash\_if\_disconnected2`  
Checks if the underlying filesystem is still connected and aborts the process otherwise.

### 1.131.1 Constructor & Destructor Documentation

1.131.1.1 `def parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive.__init__( self )`

### 1.131.2 Member Function Documentation

1.131.2.1 `def parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive._check( ffs ) [static],[private]`

1.131.2.2 `def parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive._crash_if_disconnected1( fs ) [static],[private]`

Checks if the underlying filesystem is still connected and aborts the process otherwise.

1.131.2.3 `def parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive._crash_if_disconnected2( fs ) [static],[private]`

Checks if the underlying filesystem is still connected and aborts the process otherwise.

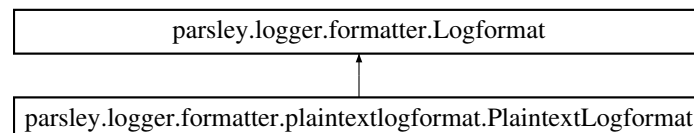
1.131.2.4 `def parsley.sync.infs.aspect.peekfilesystemalive.PeekFileSystemAlive.hook( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- [parsley/sync/infs/aspect/peekfilesystemalive.py](#)

## 1.132 parsley.logger.formatter.plaintextlogformat.PlaintextLogformat Class Reference

Inheritance diagram for `parsley.logger.formatter.plaintextlogformat.PlaintextLogformat`:



### Public Member Functions

- `def __init__`
- `def header`
- `def log`
- `def footer`

### Public Attributes

- `maxlen`
- `color`

### 1.132.1 Constructor & Destructor Documentation

1.132.1.1 `def parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.__init__( self, maxlen = 80, color = None )`

## 1.132.2 Member Function Documentation

1.132.2.1 `def parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.footer ( self )`

1.132.2.2 `def parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.header ( self )`

1.132.2.3 `def parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.log ( self, sync, subject, verb, comment, severity, symbol )`

## 1.132.3 Member Data Documentation

1.132.3.1 `parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.color`

1.132.3.2 `parsley.logger.formatter.plaintextlogformat.PlaintextLogformat.maxlen`

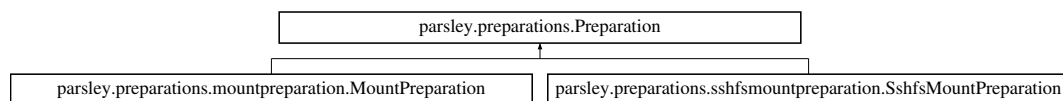
The documentation for this class was generated from the following file:

- `parsley/logger/formatter/plaintextlogformat.py`

## 1.133 parsley.preparations.Preparation Class Reference

Abstract base class for all logic, which does preparation work for the actual synchronization run in advance or afterwards (like mounting filesystems, cleaning up stuff).

Inheritance diagram for `parsley.preparations.Preparation`:



### Public Member Functions

- `def __init__`
- `def enable`  
*Runs the preparation work.*
- `def disable`  
*Undo the preparation after the synchronizaion (like unmounting).*
- `def getstate`  
*Checks if the preparation is successfully done or not.*
- `def ensuredisabledbefore`  
*Defines if this preparation is required to be disabled before the synchronization begins.*
- `def ensuredisabledafter`  
*Defines if this preparation is required to be disabled after the synchronization ended.*
- `def ensureenabled`  
*Defines if this preparation is required to be successful for the ongoing process of synchronization.*

### Public Attributes

- `tries`

### 1.133.1 Detailed Description

Abstract base class for all logic, which does preparation work for the actual synchronization run in advance or afterwards (like mounting filesystems, cleaning up stuff).

### 1.133.2 Constructor & Destructor Documentation

1.133.2.1 `def parsley.preparations.Preparation.__init__( self, tries = 3 )`

### 1.133.3 Member Function Documentation

1.133.3.1 `def parsley.preparations.Preparation.disable ( self )`

Undo the preparation after the synchronizaion (like unmounting).

1.133.3.2 `def parsley.preparations.Preparation.enable ( self )`

Runs the preparation work.

1.133.3.3 `def parsley.preparations.Preparation.ensuredisabledafter ( self )`

Defines if this preparation is required to be disabled after the synchronization ended.

For example, it is an error situation if a certain mountpoint is mounted even after this preparation has unmounted it.

1.133.3.4 `def parsley.preparations.Preparation.ensuredisabledbefore ( self )`

Defines if this preparation is required to be disabled before the synchronization begins.

For example, it is an error situation if a certain mountpoint is already mounted before this preparation has mounted it.

1.133.3.5 `def parsley.preparations.Preparation.ensureenabled ( self )`

Defines if this preparation is required to be successful for the ongoing process of synchronization.

For example, a preparation which just does some uncritical cleanup, should not stop the complete synchronization if it fails.

1.133.3.6 `def parsley.preparations.Preparation.getstate ( self )`

Checks if the preparation is successfully done or not.

The parsley engine will check the state with this method at certain times and decide what to do depending on the state and the return values of `ensuredisabledbefore`, `ensuredisabledafter` and `ensureenabled`.

### 1.133.4 Member Data Documentation

1.133.4.1 `parsley.preparations.Preparation.tries`

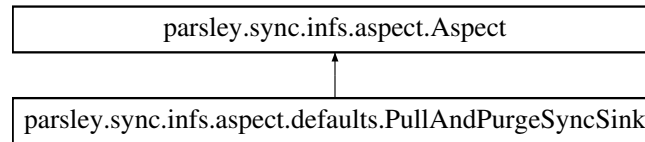
The documentation for this class was generated from the following file:

- `parsley/preparations/__init__.py`

## 1.134 `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink` Class Reference

Default behavior for a sink filesystem in a pull-and-purge configuration.

Inheritance diagram for `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink`:



### Public Member Functions

- `def __init__`
- `def hook`

### Static Private Member Functions

- `def _rename_existing_to_new_name`  
*Renames an existing existing entry to some new name.*
- `def _remove_from_source_filesystem`  
*Removes the file in the source filesystem.*

#### 1.134.1 Detailed Description

Default behavior for a sink filesystem in a pull-and-purge configuration.

#### 1.134.2 Constructor & Destructor Documentation

1.134.2.1 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink.__init__( self )`

#### 1.134.3 Member Function Documentation

1.134.3.1 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink._remove_from_source_filesystem( )` `[static]`, `[private]`

Removes the file in the source filesystem.

1.134.3.2 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink._rename_existing_to_new_name( fs )` `[static]`, `[private]`

Renames an existing existing entry to some new name.

1.134.3.3 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSink.hook( self, machine, isglobal, fss )`

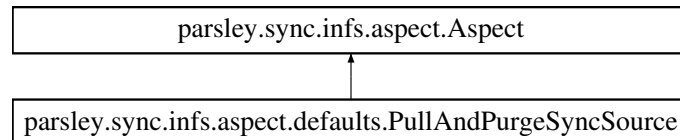
The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/defaults.py`

## 1.135 `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource` Class Reference

Default behavior for a source filesystem in a pull-and-purge configuration.

Inheritance diagram for `parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource`:



### Public Member Functions

- def `__init__`
- def `hook`

#### 1.135.1 Detailed Description

Default behavior for a source filesystem in a pull-and-purge configuration.

#### 1.135.2 Constructor & Destructor Documentation

1.135.2.1 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource.__init__( self )`

#### 1.135.3 Member Function Documentation

1.135.3.1 `def parsley.sync.infs.aspect.defaults.PullAndPurgeSyncSource.hook( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/defaults.py`

## 1.136 `parsley.test.testhelper_ssh.RateLimiter` Class Reference

### Public Member Functions

- def `__init__`
- def `__enter__`
- def `__exit__`

#### 1.136.1 Constructor & Destructor Documentation

1.136.1.1 `def parsley.test.testhelper_ssh.RateLimiter.__init__( self )`

#### 1.136.2 Member Function Documentation

1.136.2.1 `def parsley.test.testhelper_ssh.RateLimiter.__enter__( self )`

1.136.2.2 `def parsley.test.testhelper_ssh.RateLimiter.__exit__( self, type, value, traceback )`

The documentation for this class was generated from the following file:

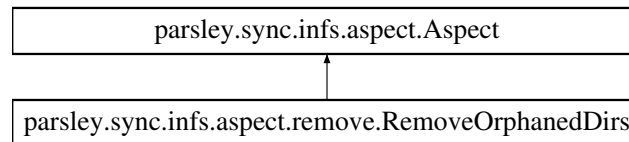


- `parsley/test/testhelper_ssh.py`

## 1.137 `parsley.sync.infs.aspect.remove.RemoveOrphanedDirs` Class Reference

Removes empty orphaned directories.

Inheritance diagram for `parsley.sync.infs.aspect.remove.RemoveOrphanedDirs`:



### Public Member Functions

- `def __init__`
- `def hook`

### Private Member Functions

- `def _remove_orphaned_dirs`  
*Removes a directory in the filesystem if it is empty and was removed in another filesystem.*

#### 1.137.1 Detailed Description

Removes empty orphaned directories.

#### 1.137.2 Constructor & Destructor Documentation

1.137.2.1 `def parsley.sync.infs.aspect.remove.RemoveOrphanedDirs.__init__( self )`

#### 1.137.3 Member Function Documentation

1.137.3.1 `def parsley.sync.infs.aspect.remove.RemoveOrphanedDirs._remove_orphaned_dirs ( fs, machine )`  
`[private]`

Removes a directory in the filesystem if it is empty and was removed in another filesystem.

1.137.3.2 `def parsley.sync.infs.aspect.remove.RemoveOrphanedDirs.hook ( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/remove.py`

## 1.138 `parsley.runtime.returnvalue.ReturnValue` Class Reference

Flags which describe the success of a synchronization run.

## Static Public Attributes

- int `SUCCESS` = 0
- int `ERROR_INITIALIZATION` = 1
- int `ERROR_PREPARATION` = 2
- int `ERROR_EXECUTION` = 4
- int `ERROR_UNPREPARATION` = 8

### 1.138.1 Detailed Description

Flags which describe the success of a synchronization run.

### 1.138.2 Member Data Documentation

1.138.2.1 int `parsley.runtime.returnvalue.ReturnValue.ERROR_EXECUTION` = 4 [static]

1.138.2.2 int `parsley.runtime.returnvalue.ReturnValue.ERROR_INITIALIZATION` = 1 [static]

1.138.2.3 int `parsley.runtime.returnvalue.ReturnValue.ERROR_PREPARATION` = 2 [static]

1.138.2.4 int `parsley.runtime.returnvalue.ReturnValue.ERROR_UNPREPARATION` = 8 [static]

1.138.2.5 int `parsley.runtime.returnvalue.ReturnValue.SUCCESS` = 0 [static]

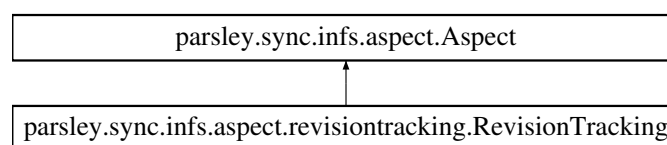
The documentation for this class was generated from the following file:

- `parsley/runtime/returnvalue.py`

## 1.139 `parsley.sync.infs.aspect.revisiontracking.RevisionTracking` Class Reference

Keeps all versions of all files which parsley has seen into a revision storage in the control directory.

Inheritance diagram for `parsley.sync.infs.aspect.revisiontracking.RevisionTracking`:



## Public Member Functions

- def `__init__`
- def `hook`

## Static Private Member Functions

- def `_updatefile_helper`
- def `_store_current_version1`  
Checks if the version with the current mtime of this entry is already stored in the version history, and if not, do so.
- def `_store_current_version2`  
Checks if the version with the current mtime of this entry is already stored in the version history, and if not, do so.

### 1.139.1 Detailed Description

Keeps all versions of all files which parsley has seen into a revision storage in the control directory.

### 1.139.2 Constructor & Destructor Documentation

1.139.2.1 `def parsley.sync.infs.aspect.revisiontracking.RevisionTracking.__init__( self )`

### 1.139.3 Member Function Documentation

1.139.3.1 `def parsley.sync.infs.aspect.revisiontracking.RevisionTracking._store_current_version1 ( fs, machine )`  
[static], [private]

Checks if the version with the current mtime of this entry is already stored in the version history, and if not, do so.

1.139.3.2 `def parsley.sync.infs.aspect.revisiontracking.RevisionTracking._store_current_version2 ( fs, machine )`  
[static], [private]

Checks if the version with the current mtime of this entry is already stored in the version history, and if not, do so.

1.139.3.3 `def parsley.sync.infs.aspect.revisiontracking.RevisionTracking._updatefile_helper ( _fs, path, machine )`  
[static], [private]

1.139.3.4 `def parsley.sync.infs.aspect.revisiontracking.RevisionTracking.hook ( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/aspect/revisiontracking.py`

## 1.140 parsley.runtime.runtime.RuntimeData Class Reference

Runtime data for synchronization runs used by the parsley engine and some higher layers.

### Public Member Functions

- `def __init__`
- `def log`  
*This is the log method which is actually used by clients.*
- `def shutdown`  
*Signals the logger to finish logging now and to submit all it's contents.*

### Public Attributes

- `retval`
- `mydir`
- `loggers`
- `warner`
- `taskdata`
- `currentsync`
- `lastsyncsuccess`

### 1.140.1 Detailed Description

Runtime data for synchronization runs used by the parsley engine and some higher layers.

Used by the synchronization implementations for logging, for communicating success values and for retrieving/setting some environment values. Typically, there is one instance for each engine run (which can do multiple synchronizations).

### 1.140.2 Constructor & Destructor Documentation

1.140.2.1 `def parsley.runtime.runtime.RuntimeData.__init__( self, datadir, loggers )`

### 1.140.3 Member Function Documentation

1.140.3.1 `def parsley.runtime.runtime.RuntimeData.log ( self, subject = " ", verb = " ", comment = " ", severity = Severity.INFO, symbol = " " )`

This is the log method which is actually used by clients.

Parameters

<i>subject</i>	The name of the subject, e.g. a file name (arbitrary string).
<i>verb</i>	A description what happened with the subject, e.g. 'deleted' or 'created' (arbitrary string).
<i>comment</i>	A description following after the verb (arbitrary string).
<i>severity</i>	A <a href="#">parsley.logger.severity.Severity</a> describes how important this message is. This value decides if the message will be really logged.
<i>symbol</i>	One character which describes the kind of log message (arbitrary string).

1.140.3.2 `def parsley.runtime.runtime.RuntimeData.shutdown ( self )`

Signals the logger to finish logging now and to submit all it's contents.

### 1.140.4 Member Data Documentation

1.140.4.1 `parsley.runtime.runtime.RuntimeData.currentsync`

1.140.4.2 `parsley.runtime.runtime.RuntimeData.lastsyncsuccess`

1.140.4.3 `parsley.runtime.runtime.RuntimeData.loggers`

1.140.4.4 `parsley.runtime.runtime.RuntimeData.mydir`

1.140.4.5 `parsley.runtime.runtime.RuntimeData.retval`

1.140.4.6 `parsley.runtime.runtime.RuntimeData.taskdata`

1.140.4.7 `parsley.runtime.runtime.RuntimeData.warner`

The documentation for this class was generated from the following file:

- [parsley/runtime/runtime.py](#)

## 1.141 parsley.logger.severity.Severity Class Reference

Enumeration for the severity of log messages.

### Static Public Attributes

- int [DEBUGVERBOSE](#) = 1
- int [DEBUG](#) = 2
- int [BENCHMARK](#) = 3
- int [INFO](#) = 4
- int [IMPORTANT](#) = 5
- int [MOREIMPORTANT](#) = 6
- int [ERROR](#) = 7

### 1.141.1 Detailed Description

Enumeration for the severity of log messages.

### 1.141.2 Member Data Documentation

1.141.2.1 int parsley.logger.severity.Severity.BENCHMARK = 3 [static]

1.141.2.2 int parsley.logger.severity.Severity.DEBUG = 2 [static]

1.141.2.3 int parsley.logger.severity.Severity.DEBUGVERBOSE = 1 [static]

1.141.2.4 int parsley.logger.severity.Severity.ERROR = 7 [static]

1.141.2.5 int parsley.logger.severity.Severity.IMPORTANT = 5 [static]

1.141.2.6 int parsley.logger.severity.Severity.INFO = 4 [static]

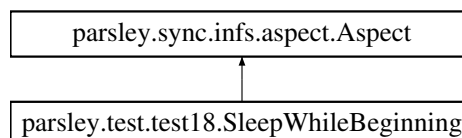
1.141.2.7 int parsley.logger.severity.Severity.MOREIMPORTANT = 6 [static]

The documentation for this class was generated from the following file:

- parsley/logger/[severity.py](#)

## 1.142 parsley.test.test18.SleepWhileBeginning Class Reference

Inheritance diagram for parsley.test.test18.SleepWhileBeginning:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

### 1.142.1 Constructor & Destructor Documentation

1.142.1.1 `def parsley.test.test18.SleepWhileBeginning.__init__( self )`

### 1.142.2 Member Function Documentation

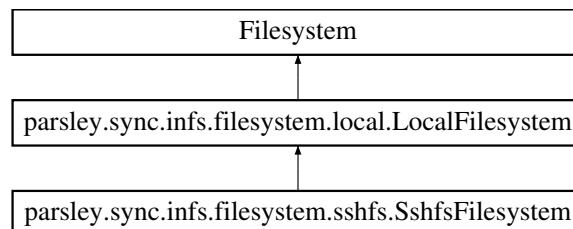
1.142.2.1 `def parsley.test.test18.SleepWhileBeginning.hook( self, machine, isglobal, fss )`

The documentation for this class was generated from the following file:

- [parsley/test/test18.py](#)

## 1.143 `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem` Class Reference

Inheritance diagram for `parsley.sync.infs.filesystem.sshfs.SshfsFilesystem`:



### Classes

- `class _SshXattrProxy`

### Public Member Functions

- `def __str__`
- `def __init__`
- `def initialize`
- `def shutdown`
- `def getsshxattrproxy`
- `def listxattrkeys`
- `def getxattrvalue`
- `def setxattrvalue`
- `def unsetxattrvalue`
- `def listdir`
- `def copyfile`
- `def removefile`
- `def createdirs`
- `def removedir`
- `def createlink`
- `def removelink`
- `def move`
- `def getftype`
- `def exists`
- `def getsize`
- `def getmtime`
- `def getlinktarget`
- `def getfulllocalpath`
- `def writetofile`

## Public Attributes

- [sshtarget](#)
- [targetpath](#)
- [idfile](#)
- [password](#)
- [port](#)
- [timeout](#)
- [options](#)
- [sshxattrproxy](#)
- [sshpath](#)
- [rootpath](#)

## Private Attributes

- [\\_sshpreparationadded](#)

### 1.143.1 Constructor & Destructor Documentation

1.143.1.1 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.__init__( self, aspects, name, sshtarget, path, idfile = None, password = None, port = 22, timeout = datetime.timedelta(seconds=10), options = None )`

### 1.143.2 Member Function Documentation

1.143.2.1 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.__str__( self )`

1.143.2.2 `def parsley.sync.infs.filesystem.local.LocalFilesystem.copyfile( self, srcpath, dstpath, expecteddestmtime = None )` [inherited]

1.143.2.3 `def parsley.sync.infs.filesystem.local.LocalFilesystem.createdirs( self, path )` [inherited]

1.143.2.4 `def parsley.sync.infs.filesystem.local.LocalFilesystem.createlink( self, srcpath, dstpath )` [inherited]

1.143.2.5 `def parsley.sync.infs.filesystem.local.LocalFilesystem.exists( self, path )` [inherited]

1.143.2.6 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getftype( self, path )` [inherited]

1.143.2.7 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getfulllocalpath( self, path )` [inherited]

1.143.2.8 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getlinktarget( self, path )` [inherited]

1.143.2.9 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getmtime( self, path )` [inherited]

1.143.2.10 `def parsley.sync.infs.filesystem.local.LocalFilesystem.getsize( self, path )` [inherited]

1.143.2.11 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.getsshxattrproxy( self )`

1.143.2.12 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.getxattrvalue( self, path, key )`

1.143.2.13 `def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.initialize( self, infssync, runtime )`

1.143.2.14 `def parsley.sync.infs.filesystem.local.LocalFilesystem.listdir( self, path )` [inherited]

```

1.143.2.15 def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.listxattrkeys ( self, path )

1.143.2.16 def parsley.sync.infs.filesystem.local.LocalFilesystem.move ( self, path, dst ) [inherited]

1.143.2.17 def parsley.sync.infs.filesystem.local.LocalFilesystem.removedir ( self, path, recursive = False )
[inherited]

1.143.2.18 def parsley.sync.infs.filesystem.local.LocalFilesystem.removefile ( self, path ) [inherited]

1.143.2.19 def parsley.sync.infs.filesystem.local.LocalFilesystem.removefile ( self, path ) [inherited]

1.143.2.20 def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.setxattrvalue ( self, path, key, value )

1.143.2.21 def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.shutdown ( self, infssync, runtime )

1.143.2.22 def parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.unsetxattrvalue ( self, path, key )

1.143.2.23 def parsley.sync.infs.filesystem.local.LocalFilesystem.writetofile ( self, path, content ) [inherited]

```

### 1.143.3 Member Data Documentation

```

1.143.3.1 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem._sshpreparationadded [private]

1.143.3.2 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.idfile

1.143.3.3 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.options

1.143.3.4 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.password

1.143.3.5 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.port

1.143.3.6 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.rootpath

1.143.3.7 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.sshpath

1.143.3.8 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.sshtarget

1.143.3.9 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.sshxattrproxy

1.143.3.10 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.targetpath

1.143.3.11 parsley.sync.infs.filesystem.sshfs.SshfsFilesystem.timeout

```

The documentation for this class was generated from the following file:

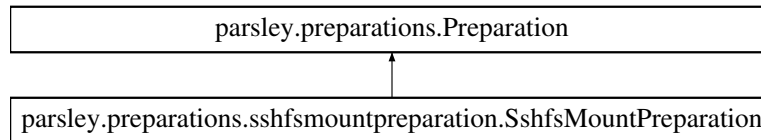
- [parsley/sync/infs/filesystem/sshfs.py](#)

## 1.144 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation` Class Reference

Mounts remote filesystems with sshfs.

Inheritance diagram for `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation`:





## Public Member Functions

- def `__init__`
- def `enable`
- def `disable`
- def `getstate`
- def `enable`  
*Runs the preparation work.*
- def `disable`  
*Undo the preparation after the synchronizaion (like unmounting).*
- def `getstate`  
*Checks if the preparation is successfully done or not.*
- def `ensuredisabledbefore`  
*Defines if this preparation is required to be disabled before the synchronization begins.*
- def `ensuredisabledafter`  
*Defines if this preparation is required to be disabled after the synchronization ended.*
- def `ensureenabled`  
*Defines if this preparation is required to be successful for the ongoing process of synchronization.*

## Static Public Member Functions

- def `translateToAlternativeEndpoint`

## Public Attributes

- `src`
- `tgt`
- `idfile`
- `password`
- `port`
- `options`
- `timeout`
- `tries`

### 1.144.1 Detailed Description

Mounts remote filesystems with sshfs.

### 1.144.2 Constructor & Destructor Documentation

1.144.2.1 `def parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.__init__( self, src, tgt, idfile=None, password=None, port=22, options=None, timeout=datetime.timedelta(seconds=10), kwa )`

### 1.144.3 Member Function Documentation

1.144.3.1 `def parsley.preparations.Preparation.disable( self )` [inherited]

Undo the preparation after the synchronizaion (like unmounting).

1.144.3.2 `def parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.disable( self, runtime )`

1.144.3.3 `def parsley.preparations.Preparation.enable( self )` [inherited]

Runs the preparation work.

1.144.3.4 `def parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.enable( self, runtime )`

1.144.3.5 `def parsley.preparations.Preparation.ensuredisabledafter( self )` [inherited]

Defines if this preparation is required to be disabled after the synchronization ended.

For example, it is an error situation if a certain mountpoint is mounted even after this preparation has unmounted it.

1.144.3.6 `def parsley.preparations.Preparation.ensuredisabledbefore( self )` [inherited]

Defines if this preparation is required to be disabled before the synchronization begins.

For example, it is an error situation if a certain mountpoint is already mounted before this preparation has mounted it.

1.144.3.7 `def parsley.preparations.Preparation.ensureenabled( self )` [inherited]

Defines if this preparation is required to be successful for the ongoing process of synchronization.

For example, a preparation which just does some uncritical cleanup, should not stop the complete synchronization if it fails.

1.144.3.8 `def parsley.preparations.Preparation.getstate( self )` [inherited]

Checks if the preparation is successfully done or not.

The parsley engine will check the state with this method at certain times and decide what to do depending on the state and the return values of ensuredisabledbefore, ensuredisabledafter and ensureenabled.

1.144.3.9 `def parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.getstate( self, runtime )`

1.144.3.10 `def parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.translateToAlternativeEndpoint( src, port, runtime )` [static]

### 1.144.4 Member Data Documentation

- 1.144.4.1 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.idfile`
- 1.144.4.2 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.options`
- 1.144.4.3 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.password`
- 1.144.4.4 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.port`
- 1.144.4.5 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.src`
- 1.144.4.6 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.tgt`
- 1.144.4.7 `parsley.preparations.sshfsmountpreparation.SshfsMountPreparation.timeout`
- 1.144.4.8 `parsley.preparations.Preparation.tries` `[inherited]`

The documentation for this class was generated from the following file:

- `parsley/preparations/sshfsmountpreparation.py`

## 1.145 parsley.test.test15.State Class Reference

### Public Member Functions

- `def __init__`
- `def populatemachine`
- `def updatemachine`
- `def checkmachine`

### Public Attributes

- `files`
- `dump`

### 1.145.1 Constructor & Destructor Documentation

- 1.145.1.1 `def parsley.test.test15.State.__init__( self )`

### 1.145.2 Member Function Documentation

- 1.145.2.1 `def parsley.test.test15.State.checkmachine( self, lm )`
- 1.145.2.2 `def parsley.test.test15.State.populatemachine( self, lm, length )`
- 1.145.2.3 `def parsley.test.test15.State.updatemachine( self, length )`

### 1.145.3 Member Data Documentation

- 1.145.3.1 `parsley.test.test15.State.dump`
- 1.145.3.2 `parsley.test.test15.State.files`

The documentation for this class was generated from the following file:

- [parsley/test/test15.py](#)

## 1.146 parsley.test.test11.State Class Reference

### Public Member Functions

- `def __init__`
- `def populatemachine`
- `def updatemachine`
- `def checkmachine`

### Public Attributes

- `files`
- `dump`

### 1.146.1 Constructor & Destructor Documentation

1.146.1.1 `def parsley.test.test11.State.__init__( self )`

### 1.146.2 Member Function Documentation

1.146.2.1 `def parsley.test.test11.State.checkmachine ( self, lm )`

1.146.2.2 `def parsley.test.test11.State.populatemachine ( self, lm, length )`

1.146.2.3 `def parsley.test.test11.State.updatemachine ( self, length )`

### 1.146.3 Member Data Documentation

1.146.3.1 `parsley.test.test11.State.dump`

1.146.3.2 `parsley.test.test11.State.files`

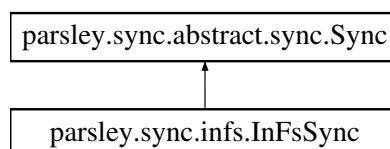
The documentation for this class was generated from the following file:

- [parsley/test/test11.py](#)

## 1.147 parsley.sync.abstract.sync.Sync Class Reference

Abstract base class for a synchronization implementation.

Inheritance diagram for `parsley.sync.abstract.sync.Sync`:



## Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [initialize](#)
- def [shutdown](#)
- def [execute](#)

## Public Attributes

- [host](#)
- [name](#)
- [cfgs](#)
- [fullname](#)
- [interval](#)
- [warn\\_after](#)
- [warn\\_interval](#)
- [warn\\_escalationfactor](#)
- [preparations](#)

### 1.147.1 Detailed Description

Abstract base class for a synchronization implementation.

#### Parameters

<i>cfgs</i>	some configuration structures. they depend on the implementation class what makes sense here.
<i>name</i>	the name for this synchronization
<i>host</i>	the host name associated with this synchronization
<i>interval</i>	the synchronization interval (the engine will skip this synchronization, if the last successful run is not at least this interval ago.
<i>warn_after</i>	the interval after which a warning is logged when no successful run took place.
<i>warn_interval</i>	the interval for subsequent warnings when no successful run took place.
<i>warn_escalationfactor</i>	a number which controls how fast the warning interval shrinks.
<i>preparations</i>	a list of <a href="#">parsley.preparations.Preparation</a> describing additional post/pre execution tasks

### 1.147.2 Constructor & Destructor Documentation

1.147.2.1 `def parsley.sync.abstract.sync.Sync.__init__( self, cfgs, name, host = "localhost", interval = timedelta(minutes=30), warn_after = timedelta(days=7), warn_interval = timedelta(days=7), warn_escalationfactor = 1, preparations = None )`

### 1.147.3 Member Function Documentation

1.147.3.1 `def parsley.sync.abstract.sync.Sync.execute( self, runtime )`

1.147.3.2 `def parsley.sync.abstract.sync.Sync.initialize( self, runtime )`

1.147.3.3 `def parsley.sync.abstract.sync.Sync.shutdown( self, runtime )`

### 1.147.4 Member Data Documentation

1.147.4.1 `parsley.sync.abstract.sync.Sync.cfgs`

- 1.147.4.2 `parsley.sync.abstract.sync.Sync.fullname`
- 1.147.4.3 `parsley.sync.abstract.sync.Sync.host`
- 1.147.4.4 `parsley.sync.abstract.sync.Sync.interval`
- 1.147.4.5 `parsley.sync.abstract.sync.Sync.name`
- 1.147.4.6 `parsley.sync.abstract.sync.Sync.preparations`
- 1.147.4.7 `parsley.sync.abstract.sync.Sync.warn_after`
- 1.147.4.8 `parsley.sync.abstract.sync.Sync.warn_escalationfactor`
- 1.147.4.9 `parsley.sync.abstract.sync.Sync.warn_interval`

The documentation for this class was generated from the following file:

- `parsley/sync/abstract/sync.py`

## 1.148 `parsley.sync.infs.syncmachine.SyncHooks` Class Reference

### Static Public Attributes

- tuple `onbeginsync` = object()  
*The begin of the complete sync run.*
- tuple `onbeginupdatedir` = object()  
*The very begin of processing a directory.*
- tuple `onlistdir` = object()  
*This hook collects all files from all filesystems in this dir.*
- tuple `onelectmaster` = object()  
*Returns a key (typically int) which indicates how up-to-date the entry is on that filesystem.*
- tuple `onmasterelected` = object()  
*When a real master is elected (not SKIPped), this event occurs.*
- tuple `ontypeconflictmaster` = object()  
*The typeconflict resolution between the master and conflicting slave from the master's perspective.*
- tuple `ontypeconflictslave` = object()  
*The typeconflict resolution between the master and conflicting slave from the slave's perspective.*
- tuple `onupdatefile` = object()  
*Updates (create or overwrite) a file on a slave by the master.*
- tuple `onupdatelink` = object()  
*Updates (create or overwrite) a link on a slave by the master.*
- tuple `onremovefile` = object()  
*Removes a file on a slave on behalf of the master.*
- tuple `onremovelink` = object()  
*Removes a link on a slave on behalf of the master.*
- tuple `onremovedir` = object()  
*Removes a directory on a slave on behalf of the master.*
- tuple `onendprocessfile` = object()  
*After processing a file.*
- tuple `onendprocesslink` = object()  
*After processing a link.*

- tuple `onendupdatedir` = `object()`  
*The very end of processing a directory.*
- tuple `onendsync` = `object()`  
*The end of the complete sync run.*
- tuple `onlogcreate` = `object()`  
*Logs object creation.*
- tuple `onlogremove` = `object()`  
*Logs object removal.*
- tuple `onlogupdate` = `object()`  
*Logs object updates.*
- tuple `onlogproblem` = `object()`  
*Logs problems.*

### 1.148.1 Member Data Documentation

1.148.1.1 tuple `parsley.sync.infs.syncmachine.SyncHooks.onbeginsync` = `object()` `[static]`

The begin of the complete sync run.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.2 tuple `parsley.sync.infs.syncmachine.SyncHooks.onbeginupdatedir` = `object()` `[static]`

The very begin of processing a directory.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.3 tuple `parsley.sync.infs.syncmachine.SyncHooks.onelectmaster` = `object()` `[static]`

Returns a key (typically int) which indicates how up-to-date the entry is on that filesystem.

The engine will try to mirror the winner to all other places.

May return `parsley.sync.infs.common.ElectionControl.SKIP` for skipping this file.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.4 tuple `parsley.sync.infs.syncmachine.SyncHooks.onendprocessfile` = `object()` `[static]`

After processing a file.

Handlers are called 'grouped by event handler first' for all filesystems.

Additional parameter is the master filesystem.

1.148.1.5 tuple `parsley.sync.infs.syncmachine.SyncHooks.onendprocesslink` = `object()` `[static]`

After processing a link.

Handlers are called 'grouped by event handler first' for all filesystems.

Additional parameter is the master filesystem.

1.148.1.6 tuple `parsley.sync.infs.syncmachine.SyncHooks.onendsync` = `object()` `[static]`

The end of the complete sync run.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.7 `tuple parsley.sync.infs.syncmachine.SyncHooks.onendupdatedir = object()` [static]

The very end of processing a directory.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.8 `tuple parsley.sync.infs.syncmachine.SyncHooks.onlistdir = object()` [static]

This hook collects all files from all filesystems in this dir.

Handlers are called 'grouped by filesystem first' for all filesystems.

Additional parameter is the list it may fill.

1.148.1.9 `tuple parsley.sync.infs.syncmachine.SyncHooks.onlogcreate = object()` [static]

Logs object creation.

1.148.1.10 `tuple parsley.sync.infs.syncmachine.SyncHooks.onlogproblem = object()` [static]

Logs problems.

1.148.1.11 `tuple parsley.sync.infs.syncmachine.SyncHooks.onlogremove = object()` [static]

Logs object removal.

1.148.1.12 `tuple parsley.sync.infs.syncmachine.SyncHooks.onlogupdate = object()` [static]

Logs object updates.

1.148.1.13 `tuple parsley.sync.infs.syncmachine.SyncHooks.onmasterelected = object()` [static]

When a real master is elected (not SKIPped), this event occurs.

Handlers are called 'grouped by event handler first' for all filesystems.

1.148.1.14 `tuple parsley.sync.infs.syncmachine.SyncHooks.onremovedir = object()` [static]

Removes a directory on a slave on behalf of the master.

May return [parsley.sync.infs.common.ActionControl.SKIP](#) (skipping other hooks *for this destination filesystem*).

Called once for each filesystem which needs removal.

Handlers are called 'grouped by filesystem first'.

Additional parameters are the master filesystem and the target filesystem.

1.148.1.15 `tuple parsley.sync.infs.syncmachine.SyncHooks.onremovefile = object()` [static]

Removes a file on a slave on behalf of the master.

May return [parsley.sync.infs.common.ActionControl.SKIP](#) (skipping other hooks *for this destination filesystem*).

Called once for each filesystem which needs removal.

Handlers are called 'grouped by filesystem first'.

Additional parameters are the master filesystem and the target filesystem.



1.148.1.16 `tuple parsley.sync.infs.syncmachine.SyncHooks.onremovelink = object()` `[static]`

Removes a link on a slave on behalf of the master.

May return `parsley.sync.infs.common.ActionControl.SKIP` (skipping other hooks *for this destination filesystem*).

Called once for each filesystem which needs removal.

Handlers are called 'grouped by filesystem first'.

Additional parameters are the master filesystem and the target filesystem.

1.148.1.17 `tuple parsley.sync.infs.syncmachine.SyncHooks.ontypeconflictmaster = object()` `[static]`

The typeconflict resolution between the master and conflicting slave from the master's perspective.

May return `parsley.sync.infs.common.ConflictResolution.FORCE_SYNC`, `parsley.sync.infs.common.ConflictResolution.SKIP` or `parsley.sync.infs.common.ConflictResolution.NO_IDEA`.

1.148.1.18 `tuple parsley.sync.infs.syncmachine.SyncHooks.ontypeconflictslave = object()` `[static]`

The typeconflict resolution between the master and conflicting slave from the slave's perspective.

May return `parsley.sync.infs.common.ConflictResolution.FORCE_SYNC`, `parsley.sync.infs.common.ConflictResolution.SKIP` or `parsley.sync.infs.common.ConflictResolution.NO_IDEA`.

1.148.1.19 `tuple parsley.sync.infs.syncmachine.SyncHooks.onupdatefile = object()` `[static]`

Updates (create or overwrite) a file on a slave by the master.

May return `parsley.sync.infs.common.ActionControl.SKIP` (skipping other hooks *for this destination filesystem*).

Called once for each filesystem which needs an update.

Handlers are called 'grouped by filesystem first'.

Additional parameters are the master filesystem and the target filesystem.

1.148.1.20 `tuple parsley.sync.infs.syncmachine.SyncHooks.onupdatelink = object()` `[static]`

Updates (create or overwrite) a link on a slave by the master.

May return `parsley.sync.infs.common.ActionControl.SKIP` (skipping other hooks *for this destination filesystem*).

Called once for each filesystem which needs an update.

Handlers are called 'grouped by filesystem first'.

Additional parameters are the master filesystem and the target filesystem.

The documentation for this class was generated from the following file:

- `parsley/sync/infs/syncmachine.py`

## 1.149 `parsley.sync.infs.syncmachine.SyncMachine` Class Reference

The state and some data structures for a full sync run at runtime.

### Public Member Functions

- `def __init__`

- def [shutdown](#)
- def [hookglobalaspects](#)
- def [hookfsaspects](#)
- def [addhook](#)
- def [resolvetypeconflict](#)
- def [beginupdatedir](#)
- def [endupdatedir](#)
- def [beginsync](#)
- def [endsync](#)
- def [updatefile](#)
- def [updatelink](#)
- def [removefile](#)
- def [removelink](#)
- def [removedir](#)
- def [endprocessfile](#)
- def [endprocesslink](#)
- def [iteratedir](#)
- def [electmaster](#)
- def [masterelected](#)
- def [logcreate](#)
- def [logremove](#)
- def [logupdate](#)
- def [logproblem](#)

## Public Attributes

- [filesystems](#)
- [lastfilelistfilenames](#)
- [lastfilelists](#)
- [filelists](#)

## Private Member Functions

- def [\\_gethandlers](#)

## Private Attributes

- [\\_handlers](#)

### 1.149.1 Detailed Description

The state and some data structures for a full sync run at runtime.

Register for all the hooks, which do the actual work. The static objects beginning with 'on' are keys for adding a hook to certain events.

## 1.149.2 Constructor & Destructor Documentation

1.149.2.1 `def parsley.sync.infs.syncmachine.SyncMachine.__init__( self, filesystems, task, runtime )`

## 1.149.3 Member Function Documentation

1.149.3.1 `def parsley.sync.infs.syncmachine.SyncMachine._gethandlers( self, fs, name )` [private]

1.149.3.2 `def parsley.sync.infs.syncmachine.SyncMachine.addhook( self, fs, name, idx, fct )`

1.149.3.3 `def parsley.sync.infs.syncmachine.SyncMachine.beginsync( self, runtime )`

1.149.3.4 `def parsley.sync.infs.syncmachine.SyncMachine.beginupdatedir( self, path, runtime )`

1.149.3.5 `def parsley.sync.infs.syncmachine.SyncMachine.electmaster( self, path, runtime )`

1.149.3.6 `def parsley.sync.infs.syncmachine.SyncMachine.endprocessfile( self, srcfs, path, wasremoved, runtime )`

1.149.3.7 `def parsley.sync.infs.syncmachine.SyncMachine.endprocesslink( self, srcfs, path, wasremoved, runtime )`

1.149.3.8 `def parsley.sync.infs.syncmachine.SyncMachine.endsync( self, runtime )`

1.149.3.9 `def parsley.sync.infs.syncmachine.SyncMachine.endupdatedir( self, path, runtime )`

1.149.3.10 `def parsley.sync.infs.syncmachine.SyncMachine.hookfsaspects( self, fs, aspects )`

1.149.3.11 `def parsley.sync.infs.syncmachine.SyncMachine.hookglobalaspects( self, aspects )`

1.149.3.12 `def parsley.sync.infs.syncmachine.SyncMachine.iteratedir( self, path, runtime )`

1.149.3.13 `def parsley.sync.infs.syncmachine.SyncMachine.logcreate( self, fs, subject, runtime, verb = "created", comment = "", symbol = "+", severity = Severity.INFO )`

1.149.3.14 `def parsley.sync.infs.syncmachine.SyncMachine.logproblem( self, fs, subject, runtime, verb = "has problems", comment = "", symbol = "E", severity = Severity.ERROR )`

1.149.3.15 `def parsley.sync.infs.syncmachine.SyncMachine.logremove( self, fs, subject, runtime, verb = "removed", comment = "", symbol = "-", severity = Severity.MOREIMPORTANT )`

1.149.3.16 `def parsley.sync.infs.syncmachine.SyncMachine.logupdate( self, fs, subject, runtime, verb = "updated", comment = "", symbol = "*", severity = Severity.IMPORTANT )`

1.149.3.17 `def parsley.sync.infs.syncmachine.SyncMachine.masterelected( self, fs, path, runtime )`

1.149.3.18 `def parsley.sync.infs.syncmachine.SyncMachine.removedir( self, srcfs, path, dstfs, runtime, recursive = False )`

1.149.3.19 `def parsley.sync.infs.syncmachine.SyncMachine.removefile( self, srcfs, path, dstfs, runtime )`

1.149.3.20 `def parsley.sync.infs.syncmachine.SyncMachine.removefile( self, srcfs, path, dstfs, runtime )`

1.149.3.21 `def parsley.sync.infs.syncmachine.SyncMachine.resolvepathconflict( self, path, m, s, runtime )`

1.149.3.22 `def parsley.sync.infs.syncmachine.SyncMachine.shutdown( self, crashed )`

1.149.3.23 `def parsley.sync.infs.syncmachine.SyncMachine.updatefile( self, srcfs, path, dstfs, runtime )`

1.149.3.24 `def parsley.sync.infs.syncmachine.SyncMachine.updatelink ( self, srcfs, path, dstfs, runtime )`

#### 1.149.4 Member Data Documentation

1.149.4.1 `parsley.sync.infs.syncmachine.SyncMachine._handlers` [*private*]

1.149.4.2 `parsley.sync.infs.syncmachine.SyncMachine.filelists`

1.149.4.3 `parsley.sync.infs.syncmachine.SyncMachine.filesystems`

1.149.4.4 `parsley.sync.infs.syncmachine.SyncMachine.lastfilelistfilenames`

1.149.4.5 `parsley.sync.infs.syncmachine.SyncMachine.lastfilelists`

The documentation for this class was generated from the following file:

- `parsley/sync/infs/syncmachine.py`

### 1.150 `parsley.test.testhelper_ssh.TemporarySshFs` Class Reference

#### Public Member Functions

- `def __init__`
- `def __enter__`
- `def __exit__`

#### Public Attributes

- `mydir`
- `sshpath`
- `sftpserverpath`

#### 1.150.1 Constructor & Destructor Documentation

1.150.1.1 `def parsley.test.testhelper_ssh.TemporarySshFs.__init__ ( self, mydir )`

#### 1.150.2 Member Function Documentation

1.150.2.1 `def parsley.test.testhelper_ssh.TemporarySshFs.__enter__ ( self )`

1.150.2.2 `def parsley.test.testhelper_ssh.TemporarySshFs.__exit__ ( self, type, value, traceback )`

#### 1.150.3 Member Data Documentation

1.150.3.1 `parsley.test.testhelper_ssh.TemporarySshFs.mydir`

1.150.3.2 `parsley.test.testhelper_ssh.TemporarySshFs.sftpserverpath`

1.150.3.3 `parsley.test.testhelper_ssh.TemporarySshFs.sshpath`

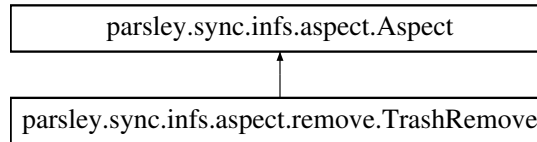
The documentation for this class was generated from the following file:

- `parsley/test/testhelper_ssh.py`

## 1.151 parsley.sync.infs.aspect.remove.TrashRemove Class Reference

Removal strategy with a trashbin.

Inheritance diagram for parsley.sync.infs.aspect.remove.TrashRemove:



### Public Member Functions

- def [\\_\\_init\\_\\_](#)
- def [hook](#)

### Static Private Member Functions

- def [\\_movetotrashbin](#)  
*Moves a file or link to the trash bin.*

#### 1.151.1 Detailed Description

Removal strategy with a trashbin.

#### 1.151.2 Constructor & Destructor Documentation

1.151.2.1 **def** parsley.sync.infs.aspect.remove.TrashRemove.\_\_init\_\_ ( *self*, *trashdelay* = `datetime.timedelta(days=7)` )

#### 1.151.3 Member Function Documentation

1.151.3.1 **def** parsley.sync.infs.aspect.remove.TrashRemove.\_movetotrashbin ( *fs*, *machine* ) [*static*],[*private*]

Moves a file or link to the trash bin.

1.151.3.2 **def** parsley.sync.infs.aspect.remove.TrashRemove.hook ( *self*, *machine*, *isglobal*, *fss* )

The documentation for this class was generated from the following file:

- parsley/sync/infs/aspect/[remove.py](#)

## 1.152 parsley.runtime.warnhelper.WarnHelper Class Reference

Used internally for logging warnings when a synchronization did not run successfully since a certain timespan.

## Public Member Functions

- `def __init__`
- `def setscope`  
*Sets the list of sync tasks for processing.*
- `def successfulcall`  
*Marks a sync task as successfully executed.*
- `def shall_skip`  
*Determines if a sync task should be skipped now.*
- `def end`  
*Signals that a task execution was scheduled for now and the process is over.*

## Public Attributes

- `r`
- `syncs`

### 1.152.1 Detailed Description

Used internally for logging warnings when a synchronization did not run successfully since a certain timespan.  
It stores timestamps on the filesystem for this functionality.

### 1.152.2 Constructor & Destructor Documentation

1.152.2.1 `def parsley.runtime.warnhelper.WarnHelper.__init__( self, runtime )`

### 1.152.3 Member Function Documentation

1.152.3.1 `def parsley.runtime.warnhelper.WarnHelper.end( self )`

Signals that a task execution was scheduled for now and the process is over.  
This happens for successful and for failed executions and triggers a warning notification in certain situations.

1.152.3.2 `def parsley.runtime.warnhelper.WarnHelper.setscope( self, syncs )`

Sets the list of sync tasks for processing.

1.152.3.3 `def parsley.runtime.warnhelper.WarnHelper.shall_skip( self, sync )`

Determines if a sync task should be skipped now.

1.152.3.4 `def parsley.runtime.warnhelper.WarnHelper.successfulcall( self, sync )`

Marks a sync task as successfully executed.

### 1.152.4 Member Data Documentation

1.152.4.1 `parsley.runtime.warnhelper.WarnHelper.r`

1.152.4.2 `parsley.runtime.warnhelper.WarnHelper.syncs`

The documentation for this class was generated from the following file:

- `parsley/runtime/warnhelper.py`

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