



Managing Files through File System In Pharo





Ruthless Theory

4 Classes :

FileSystem

- Basically Factory To create File Systems

FileReference

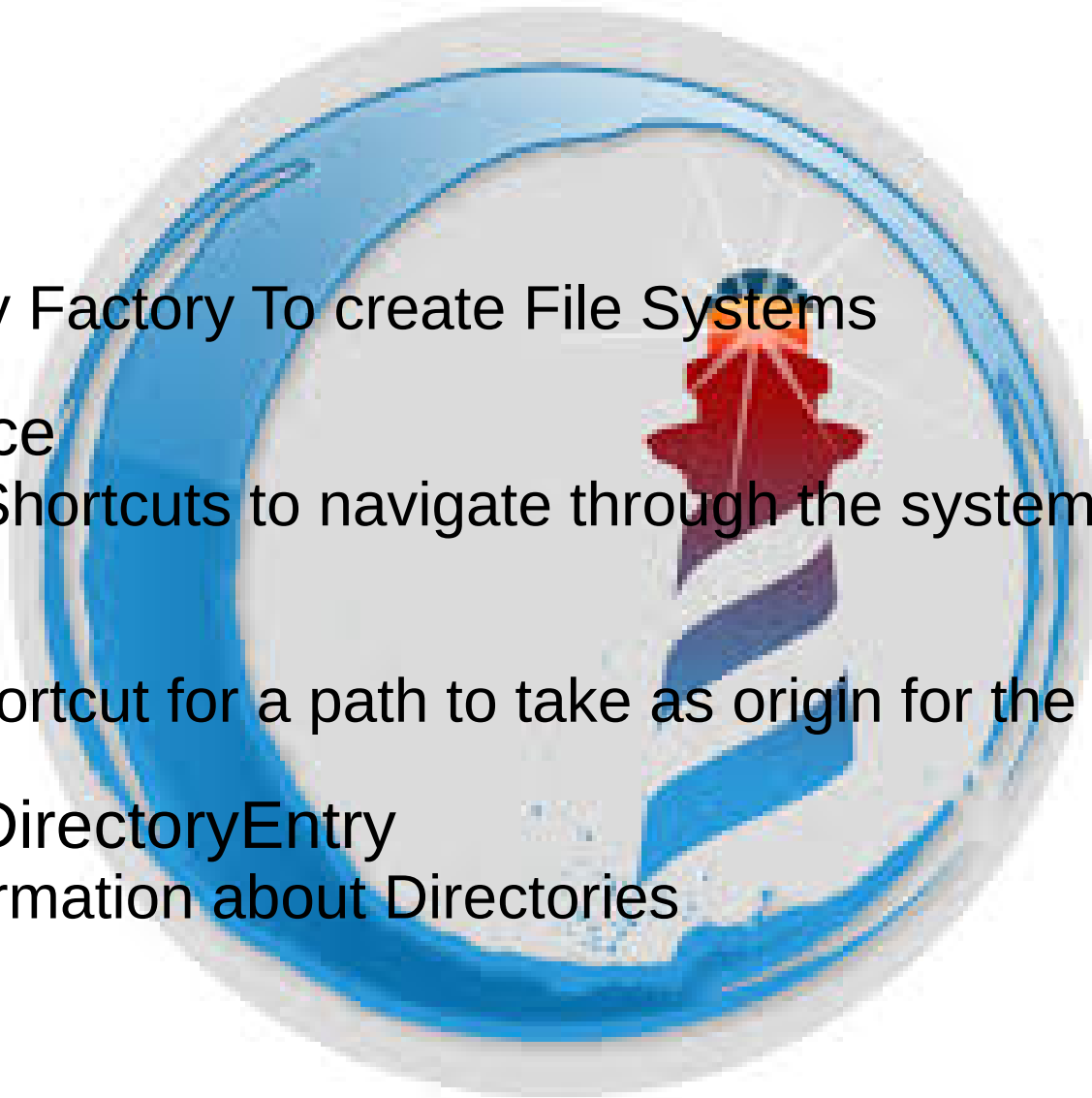
- Create Shortcuts to navigate through the system

FileLocator

- Set a shortcut for a path to take as origin for the current prog

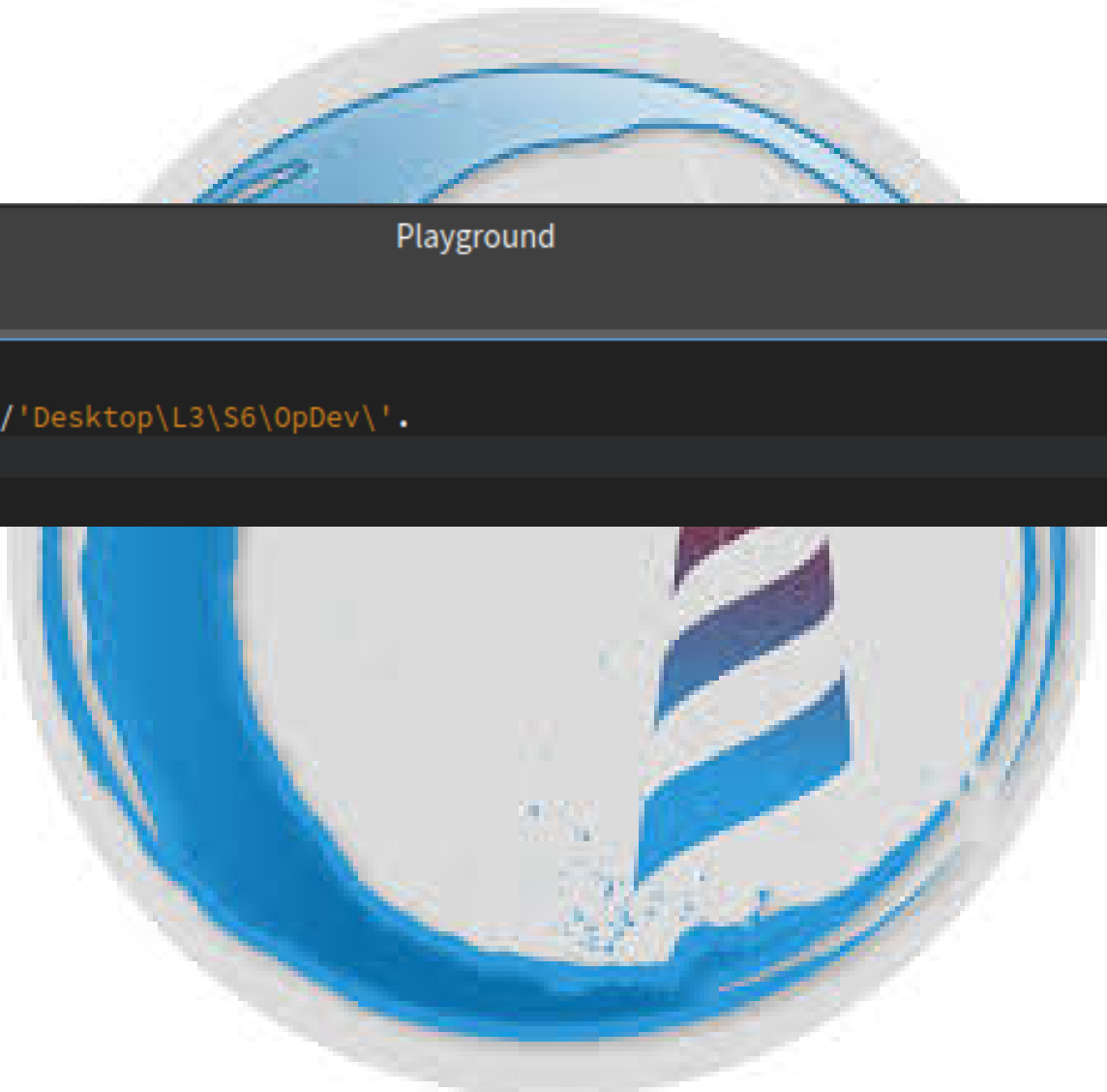
FileSystemDirectoryEntry

- Get Information about Directories





Let's Get It Started



```
Playground

Page

|home|
home := FileLocator home /'Desktop\L3\S6\OpDev\'.
home children.
```





Let's Get It Started

Playground

Page

```
| home |  
home := FileLocator home / 'Desktop\\L3\\S6\\OpDev\\'  
home.children.  
an Array({home}\\Desktop\\L3\\S6\\OpDev\\.~lock.Pres_File_Pharo.odp# {home}\\Desktop\\L3\\S6\\OpDev\\opendevs  
{home}\\Desktop\\L3\\S6\\OpDev\\opendevs-20180123T183403Z-001.zip {home}\\Desktop\\L3\\S6\\OpDev\\Pharo6.1  
{home}\\Desktop\\L3\\S6\\OpDev\\pharo6.1-64-20180123T183133Z-001.zip  
{home}\\Desktop\\L3\\S6\\OpDev\\Pharo6.1-win.zip {home}\\Desktop\\L3\\S6\\OpDev\\pharo_logo.jpeg  
{home}\\Desktop\\L3\\S6\\OpDev\\pres {home}\\Desktop\\L3\\S6\\OpDev\\Pres_File_Pharo.odp  
{home}\\Desktop\\L3\\S6\\OpDev\\pythonist.png {home}\\Desktop\\L3\\S6\\OpDev\\test.ph})
```



Don't You Worry Child

Playground

Page

```
|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children
```

DirectoryDoesNotExist: Path / 'C:' / 'Users' / 'Snoopy' / 'Desktop\L3\S6\OpDev\' / 'Phacochere'

Proceed	Abandon	Debug	Report
WindowsStore(FileSystemStore)	signalDirectoryDoesNotExist:		
FileSystem	childNamesAt:do:	[store signalDirectoryDoesNotExist: path]	
True	ifTrue:ifFalse:		
WindowsStore(DiskStore)	nodeAt:ifPresent:ifAbsent:		
WindowsStore(FileSystemStore)	directoryAt:ifAbsent:nodesDo:		
FileSystem	childNamesAt:do:		
FileSystem	childNamesAt:	[:out self childNamesAt: aResolvable do: [:path out nextPut: path]]	
Array class(SequenceableCollection class)	new:streamContents:		
Array class(SequenceableCollection class)	streamContents:		
FileSystem	childNamesAt:		
FileLocator(AbstractFileReference)	children		
UndefinedObject	DoIt		
OpalCompiler	evaluate		
RubSmalltalkEditor	evaluate:andDo:		
RubSmalltalkEditor	highlightEvaluateAndDo:		
GLMMorphicPharoScriptRenderer(GLMMorphicPharoCodeRenderer)	popupPrint		
MorphicAlarm(MessageSend)	value		
MorphicAlarm	value:		
WorldState	triggerAlarmsBefore:		
WorldState	runLocalStepMethodsIn:		
WorldState	runStepMethodsIn:		
WorldMorph	runStepMethods		
WorldState	doOneCycleNowFor:		
WorldState	doOneCycleFor:		
WorldMorph	doOneCycle		
WorldMorph class	doOneCycle		
MorphicUIManager	spawnNewProcess	[[WorldMorph doOneCycle. Processor yield. false] whileFalse: []]	
BlockClosure	spawnNewProcess	[self spawnNewProcess terminateActive]	



Mirrors

```
Playground

|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory') ensureCreateDirectory.
```

File @ C:\Users\Snoopy\Desktop\L3\S6\OpDev\TestDirectory





Mirrors

```
Playground

Page

|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory') ensureCreateDirectory. File @ C:\Users\Snoopy\Desktop\L3\S6\OpDev\TestDirectory

Playground

Page

|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory\test.txt') ensureCreateFile. {home}\Desktop\L3\S6\OpDev\TestDirectory\test.txt
```



Who you are

```
Playground

Page

|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory') ensureCreateDirectory.

(home / 'TestDirectory') isDirectory. true
```

```
Playground

Page

|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory\test.txt') ensureCreateFile.

(home / 'TestDirectory\test.txt') isFile. true
```




Wrecking Ball

Playground

Page

```
|home|
home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory\test.txt') ensureCreateFile.

(home / 'TestDirectory\test.txt') isFile.

(home / 'TestDirectory\test.txt') delete. File @ C:\Users\Snoopy\Desktop\L3\S6\OpDev\TestDirectory\test.txt

home := FileLocator home / 'Desktop\L3\S6\OpDev\'.
home children.

(home / 'Phacochere') children.

(home / 'TestDirectory') ensureCreateDirectory .

(home / 'TestDirectory') isDirectory .

(home / 'TestDirectory') delete. File @ C:\Users\Snoopy\Desktop\L3\S6\OpDev\TestDirectory
```



Written Off

```
(home / 'TestDirectory') ensureCreateDirectory.  
(home / 'TestDirectory/test.txt') ensureCreateFile.  
  
stream := (home / 'TestDirectory/test.txt') writeStream.  
stream nextPutAll: 'texte'.  
stream close.  
  
(home / 'TestDirectory/test.txt') writeStreamDo: [ :stream | stream nextPutAll: 'texte' ].
```





Read All About It

```
streamL := (home / 'TestDirectory/test.txt') readStream.  
streamL contents.  
streamL close.
```

```
(home / 'TestDirectory/test.txt') readStreamDo: [ :streamL | streamL contents ].
```

'texte'





Someone Like You

```
(home / 'TestDirectory') copyAllTo: (home / 'CopyDir').
```

```
(home / 'TestDirectory/test.txt') copyTo: (home / 'CopyDir/CopyTest.txt').
```





Goodbye

```
(home / 'TestDirectory.text.txt') delete.  
(home / 'TestDirectory') deleteAll.  
(home / 'CopyDir') deleteAll.
```

