

NetBeans ~ OS/2

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Agenda

- NetBeans and OS/2
- DataObject
- Factories
- Presentation
- Q/A

OS/2

- 32bit OS from IBM
- In '94 competition to Win95
- Presentation Manager
 - > object oriented desktop
 - > object usage
- Loyal user base
- Dead by now

DataObject

- Logical object around FileObject
 - > more than a plain content
 - > copy, move, shadow, createFromTemplate
- Multiple files
- Factories
 - > many implementations
- Document vs. Tool model
 - > templates, missing save as

DataLoader

- Factory
 - > by extension
 - > by mime type
- Context Actions
 - > `String actionsContext();`
 - > read from a layer
 - > regular swing actions
- Can have persistent state

FileSystems vs. Loaders API

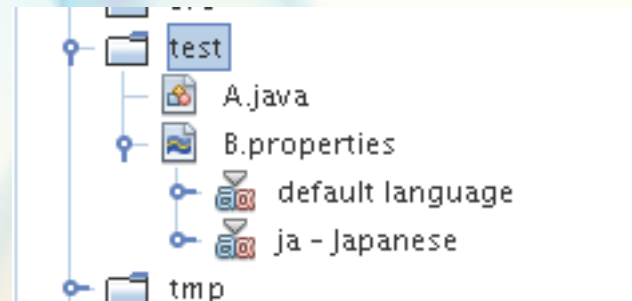
- One type vs. multiple types
- One file vs. group of files
- Raw data vs. operations on them

A.java

A.class

B.properties

B_ja.properties

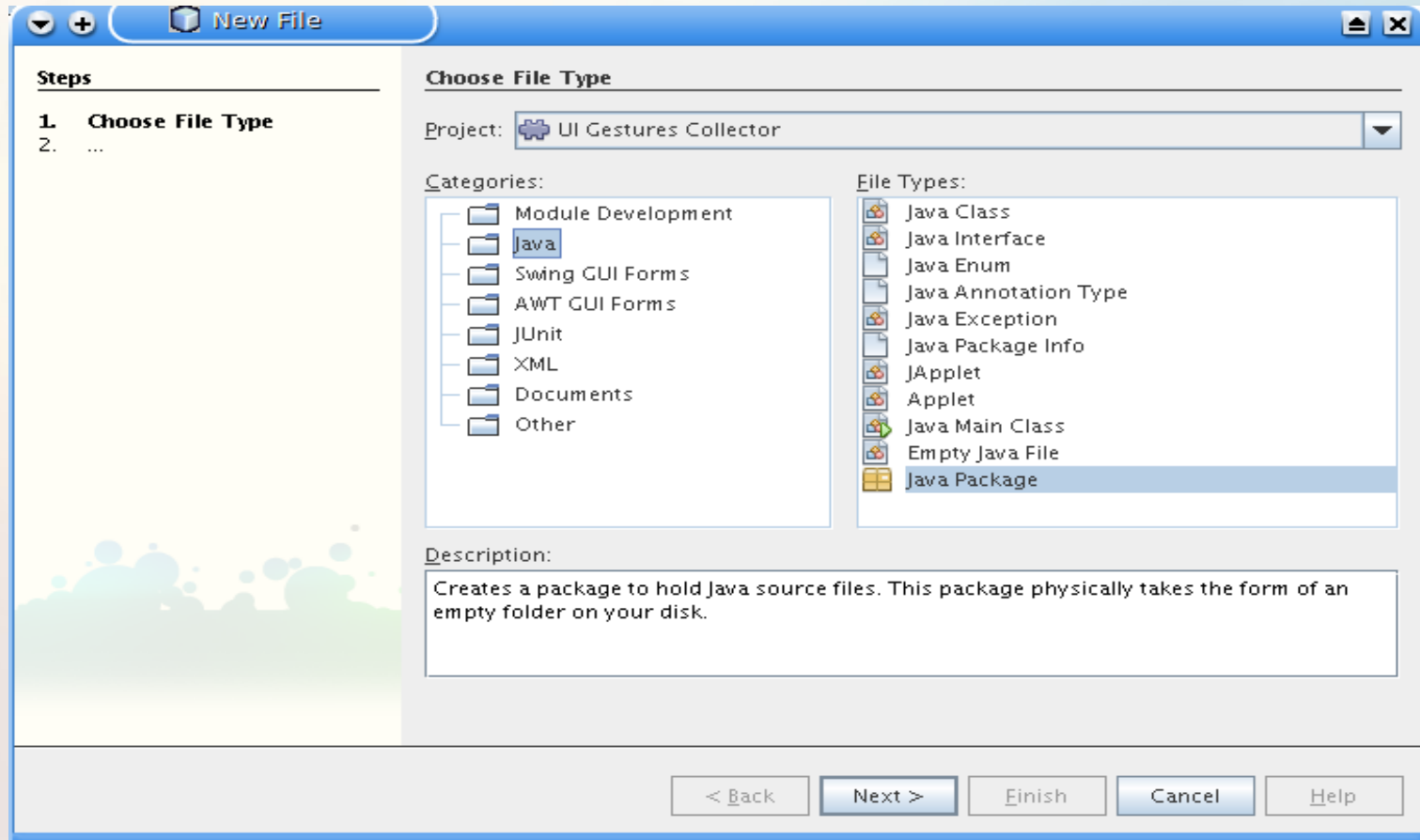


System DataObjects

- DataObject
 - > base API class, default data object
- MultiDataObject
 - > abstract support class
- DataFolder
- DataShadow
- InstanceDataObject
 - > settings management

Visual Creation

- /Templates && TemplateWizard



Templating Languages

- Any scripting language
 - > javax.script.ScriptEngine
 - > <http://scripting.dev.java.net>
- Support for Freemarker
 - > substitutions
 - > variables
 - > cycles
- CreateFromTemplateHandler
- CreateFromTemplateAttributeProvider

Visual Representation

- Represented by Nodes
 - > data objects are the model
- `DataObject.getNodeDelegate()`
 - > `DataNode` - premade superclass
 - > `FolderNode` & `FolderChildren`
- Write you own hierarchy
 - > projects
 - > files
 - > favorites

Context of a DataObject

- `DataObject.getLookup()`
 - > added in 6.0
- In case of `MultiDataObject`
 - > `getCookieSet().getLookup()`
- Can be controlled by
 - > `getCookieSet().assign(Data.class, data)`

Text Editor

- API for accessing
 - > EditorCookie
 - > OpenCookie
 - > EditCookie
- Supporting classes
 - > CloneableEditorSupport
 - > CloneableEditor

Conclusion

- DataObject
 - > logical view over a file
 - > created by factories
- Extensible via layers
 - > actions
 - > templates
- Visualized by Nodes

DEMO

- Explorer