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Workspace Recipes

The Workspace classes are in the **geoscript.workspace** package.

A Workspace is a collection of Layer. You can create, add, remove, and get Layers. There are many different kinds of Workspace in GeoScript including Memory, PostGIS, Directory (for Shapefiles), GeoPackage, and many more.

Creating Workspaces

Create a Workspace

```
Workspace workspace = new Workspace()
```

Create a Layer

```
Schema schema = new Schema("cities", [
          new Field("geom", "Point", "EPSG:4326"),
          new Field("id", "Integer"),
          new Field("name", "String")
])
Layer layer = workspace.create(schema)
println layer
```

```
cities
```

Check whether a Workspace has a Layer by name

```
boolean hasCities = workspace.has("cities")
println hasCities
```

```
true
```

Get a Layer from a Workspace

```
Layer citiesLayer = workspace.get('cities')
println citiesLayer
```

```
cities
```

```
true
```

Get the names of all Layers in a Workspace

```
List<String> names = workspace.names
names.each { String name ->
    println name
}
```

```
cities
states
```

Remove a Layer from a Workspace

```
workspace.remove("cities")
println workspace.has('cities')
```

```
false
```

Close the Workspace when you are done

```
workspace.close()
```

Creating a Directory Workspace

A Directory Workspace is a directory of Shapefiles.

Create a Directory Workspace

```
Directory directory = new Directory("src/main/resources/data")
println directory.toString()
```

Directory[/Users/jericks/Projects/geoscript-cookbook/src/main/resources/data]

View the Workspace's format

```
String format = directory.format println format
```

Directory

View the Workspace's File

```
File file = directory.file println file
```

/Users/jericks/Projects/geoscript-cookbook/src/main/resources/data

View the Workspace's list of Layer names

```
List names = directory.names
names.each { String name ->
    println name
}
```

states

Get a Layer by name

```
Layer layer = directory.get("states")
int count = layer.count
println "Layer ${layer.name} has ${count} Features."
```

Layer states has 49 Features.

Close the Directory when done.

```
directory.close()
```