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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[/home/travis/build/jericks/geoscript-groovycookbook/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
```

/home/travis/build/jericks/geoscript-groovy-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()
```