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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
```

Add a Layer to a Workspace

```
Schema statesSchema = new Schema("states", [  
    new Field("geom", "Polygon", "EPSG:4326"),  
    new Field("id", "Integer"),  
    new Field("name", "String")  
])  
Layer statesLayer = new Layer("states", statesSchema)  
workspace.add(statesLayer)  
println workspace.has("states")
```

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()
```