Selected R Packages

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Module Overview

Package Review

Data Manipulation: sqldf

Spatial Data: maps, ggmaps, mapproj

TimeSeries: QuantMod

Interactive: iGraph, rChart
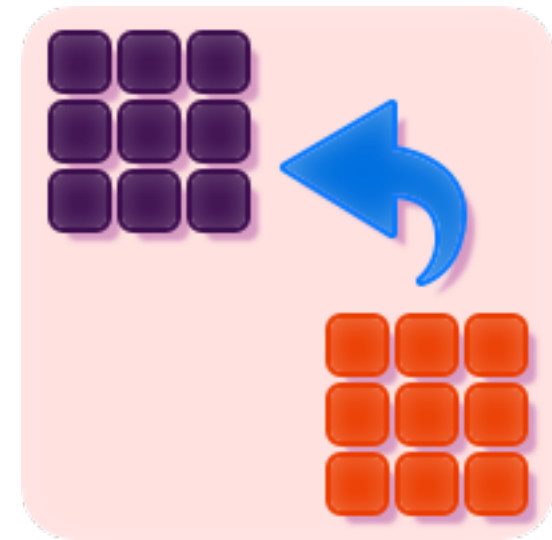
Package Review

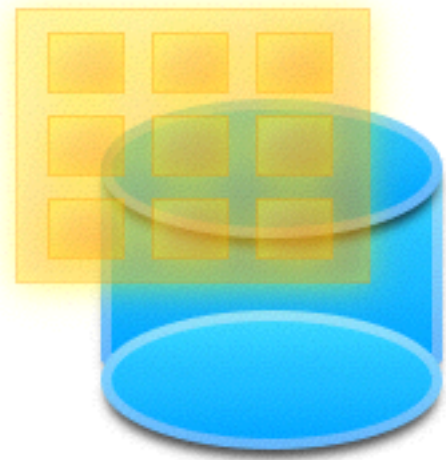**Display**

lattice

ggplot2

Retrieve

RCurl

Manipulate

sqldf

Data Manipulation: sqldf

R package for running SQL statements on a data frame.

Backed by SQLite.

Leverage SQL knowledge.

SQL

Structured Query Language

Concept	SQL Keyword	
Tables	CREATE/ALTER/DROP	DDL
Records		
Create	INSERT ←	DML
Read	SELECT	
Update	UPDATE ←	
Delete	DELETE ←	
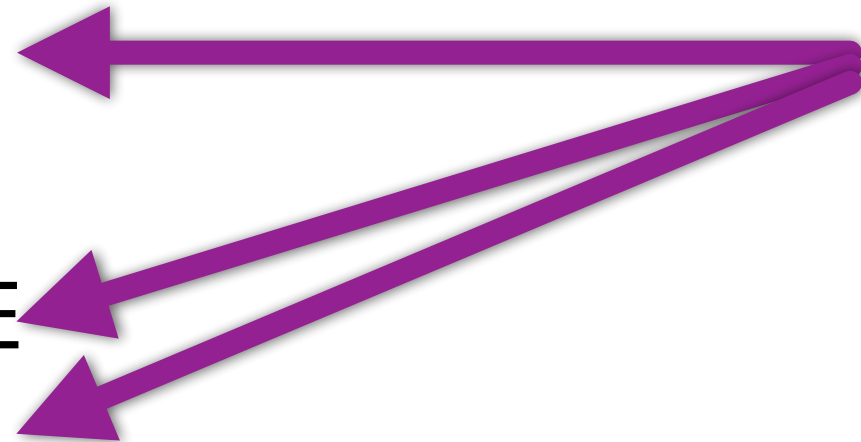
SQL SELECT Statement

CREW_MEMBERS				
id	user_name	first_name	last_name	birth_date
1	notBadMal	Malcom	Reynolds	2468-09-20
2	warriorwoman2511	Zoe	Washburne	2484-02-15
3	veras-man	Jayne	Cobb	

```
SELECT user_name
FROM CREW_MEMBERS
WHERE id = 3
ORDER BY user_name
```

```
1   notBadMal          Malcom       Reynolds   2468-09-20
2   warriorwoman2511   Zoe          Washburne  2484-02-15
3   veras-man          Jayne        Cobb
```
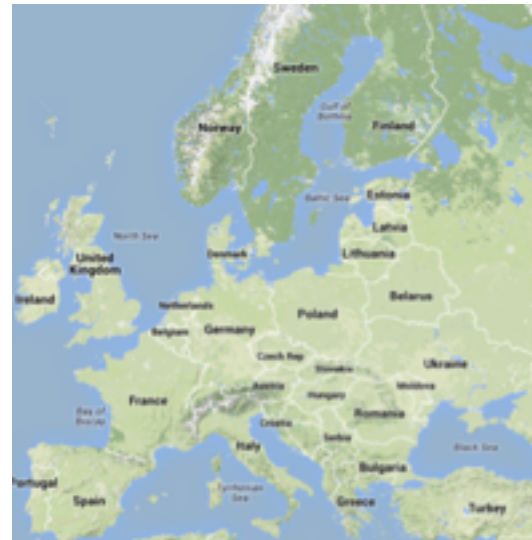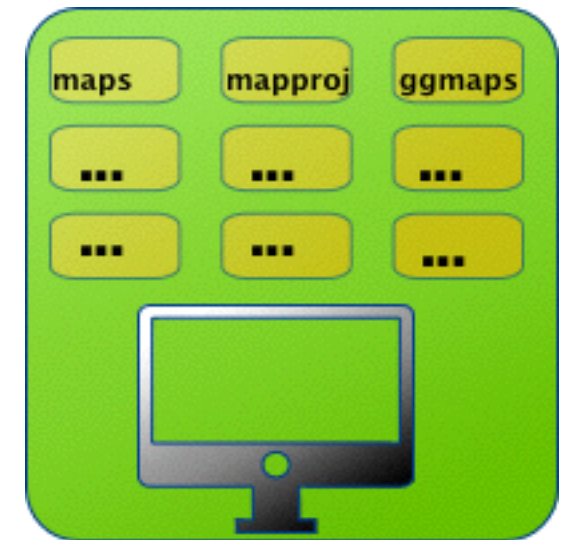
Spatial Data: maps, mapproj, ggmaps

Geospatial data processing.

Cartography - creating maps.

Other specialized packages are available.

Time Series: QuantMod

Dependent on Time Series Packages

Look up Financial Data online

Can be used to generate specialized Stock Charts.

Interactive: iGraph, rChart

Traditional Graphics, static and non-interactive

Interactive Graphics: Overlays, Rearrange Graph Nodes, Zoom

Special Clients and Web Based Options

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