

Développeur  
Web

# R dans Isis

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Date



# Configuration

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## ➤ Dans R :

- `install.packages("rJava")`

## ➤ Dans Isis :

- Configuration / Configuration R

## ➤ Pour les AS :

- `install.packages("sensitivity")`
- `install.packages("lhs")`

# REngine

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- `REngine engine = new RProxy() ;`
- Proxy sur
  - REngineJni
  - REngineNet

# REngine

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- `engine.voidEval(String)`
- `engine.saveRData(File, String)`
- `engine.loadRData(File, String)`
- `engine.eval(String)`
  - `String`
  - `int / int[]`
  - `double / double[]`
  - ...
  - `RList / RDataFrame`

## Example

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```
➤ REngine engine = new RProxy();  
engine.voidEval("a <- 1");  
engine.voidEval("b <- 2");  
double sum = (double)engine.eval("a + b");
```

# Example

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```
➤ engine.voidEval("donnees <- data.frame(list(c(14, 11, 18), c(7, 42, 19)))");  
engine.voidEval("colnames(donnees) <-  
  c(\"Population1\", \"Population2\")");  
engine.voidEval("rownames(donnees) <-  
  c(\"Zone1\", \"Zone2\", \"Zone3\")");  
RDataFrame donnees = (RDataFrame)engine.eval("donnees");  
System.out.println(donnees);
```