

# Package: SyncRNG (via r-universe)

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**Title** A Synchronized Tausworthe RNG for R and Python

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**Depends** R (>= 3.0.0)

**Description** Generate the same random numbers in R and Python.

**License** GPL-2

**Imports** methods

**Suggests** testthat

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**NeedsCompilation** yes

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**Repository** <https://gjjvdburg.r-universe.dev>

**RemoteUrl** <https://github.com/cran/SyncRNG>

**RemoteRef** HEAD

**RemoteSha** 80eb05b893f6f49f6e31777f4405dc7c38de353c

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SyncRNG-class

*A Reference Class for SyncRNG*

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### **Description**

See [syncrng-package](#) for package documentation.

### **Fields**

`seed` The seed for the random number generator

`state` The current state of the RNG, should not be modified by the user

### **Methods**

`initialize(..., seed = 0)` Initialize the RNG using the C function `R_syncrng_seed`

`rand()` Generate a single random float in the range `[0, 1)`

`randbelow(n)` Generate a random integer below a given number

`randi()` Generate a single random 32-bit integer

`shuffle(x)` Randomly shuffle a provided array of values

### **Examples**

```
s <- SyncRNG(seed=123456)
for (i in 1:10)
  cat(s$randi(), '\n')
```

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