

## rg\_w

Last Updated Sunday, 14 October 2007

This function creates a random network with random edge weights.

### Options:

- number of nodes, default = 100
- number of arcs, default = 300
- maximum edge weight, default = 10
- directed networks, default = TRUE
- seed (reproducible), default = FALSE

### Example

To create a random graph with 10 nodes, 30 undirected arcs and a maximum edge weight of 5 (reproducible example with seed 1), write the following:## Load tnet

```
library(tnet)## Run programme
```

```
rg_w(nodes=10,arcs=30,max.weight=5,directed=FALSE,seed=1)    i j w
```

```
[1,] 3 5 4
[2,] 4 9 5
[3,] 6 7 3
[4,] 3 6 2
[5,] 1 8 4
[6,] 3 7 1
[7,] 2 5 2
[8,] 7 9 1
[9,] 4 5 2
[10,] 4 6 4
[11,] 3 10 5
[12,] 3 4 4
[13,] 4 7 2
[14,] 1 3 2
[15,] 5 9 2
[16,] 5 3 4
[17,] 9 4 5
[18,] 7 6 3
[19,] 6 3 2
[20,] 8 1 4
[21,] 7 3 1
[22,] 5 2 2
[23,] 9 7 1
[24,] 5 4 2
[25,] 6 4 4
[26,] 10 3 5
[27,] 4 3 4
[28,] 7 4 2
[29,] 3 1 2
[30,] 9 5 2
```