



1

help

R: How to generate igraph with known vertex connections and edge weight

I have already derived vertex connections of the graph. It is a matrix with 3 columns. Column 1 contains vertex i , column 2 contains all its adjacent vertexes, column 3 contains the edge weight, so the data are already processed into something like $\{\{1,1,0.8\} \{1, 3, 0.4\}, \{2, 3, 0.5\} \dots\}$

Yet I do not know how to incorporate this into igraph in R. Seems to me all presented igraph work are initiated from matrix containing original raw data.

Or if there is any other package that can convert this map into graph directly?

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edited Mar 5 at 0:07

asked Mar 4 at 23:59



[user3381299](#)

20 3

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1 Answer

Read in `?igraph-package` under the section **Creating graphs**, and you will find the relevant information. In your case, using `graph.data.frame` is sufficient.

```
d <- data.frame(from=c(1, 1, 2), to=c(1, 3, 3), weight=c(0.8, 0.4, 0.5))
graph.data.frame(d)
```

edited Mar 5 at 3:06



[Gabor Csardi](#)

5,308 9 21

answered Mar 5 at 0:15



[nograpes](#)

10.5k 7 23

It worked. Thanks a lot. – [user3381299](#) Mar 5 at 3:40

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