

# Package ‘grand’

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**Title** Guidelines for Reporting About Network Data

**Version** 0.9.1

**Description** Interactively applies the Guidelines for Reporting About Network Data (GRAND) to an 'igraph' object, and generates a uniform narrative or tabular description of the object.

**License** GPL-3

**Encoding** UTF-8

**RoxygenNote** 7.3.1

**Depends** R (>= 2.10)

**Imports** igraph, methods, utils

**Suggests** knitr, rmarkdown

**URL** <https://github.com/zpneal/grand>

**BugReports** <https://github.com/zpneal/grand/issues>

**NeedsCompilation** no

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**Repository** CRAN

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## Contents

grand . . . . .	2
grand_manual . . . . .	3
<b>Index</b>	<b>5</b>

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grand

*Applies Guidelines for Reporting About Network Data*


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### Description

The `grand` function interactively adds information about a network and generates a narrative summary of the network following the Guidelines for Reporting About Network Data.

### Usage

```
grand(G, mode, help = FALSE, verbose = FALSE)
```

### Arguments

<code>G</code>	An <a href="#">igraph</a> object, with weights/signs (if present) stored in <code>E(G)\$weight</code>
<code>mode</code>	string: "interview" to interactively add information, or "statement" to generate a summary statement
<code>help</code>	boolean: Should interview prompts be accompanied by explanations and examples?
<code>verbose</code>	boolean: Should an extended summary be generated?

### Value

An [igraph](#) object if `mode == "interview"`, or a string if `mode == "statement"`

### Examples

```
G <- igraph::make_graph("Zachary") #An example network

#G <- grand(G, mode = "interview") #Interactively enter information...

G <- grand_manual(G, #...or manually enter information
  name = "Zachary Karate Club",
  doi = "10.1086/jar.33.4.3629752",
  url = "https://networks.skewed.de/net/karate",
  vertex1 = "People",
  positive = "Friendship",
  mode = "Observation",
  year = "1977")

grand(G, mode = "statement") #Display summary statement
```

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grand_manual	<i>Manually add Guidelines for Reporting About Network Data (GRAND) information to an igraph object</i>
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## Description

The `grand_manual` function allows a user to manually and non-interactively add GRAND information to an `igraph` object. Normally this information should be added interactively using `grand(mode = "interview")`.

## Usage

```
grand_manual(
  G,
  name = NA,
  doi = NA,
  url = NA,
  vertex1 = NA,
  vertex2 = NA,
  positive = NA,
  negative = NA,
  weight = NA,
  level = NA,
  mode = NA,
  year = NA
)
```

## Arguments

<code>G</code>	An <code>igraph</code> object, with weights/signs (if present) stored in <code>E(G)\$weight</code>
<code>name</code>	string: Name of the network (e.g., Zachary Karate Club)
<code>doi</code>	string: DOI associated with the data (e.g., 10.1086/jar.33.4.3629752)
<code>url</code>	string: Link to data (e.g., <a href="https://networks.skewed.de/net/karate">https://networks.skewed.de/net/karate</a> )
<code>vertex1</code>	string: Entity represented by nodes in a unipartite network, or by <code>FALSE</code> nodes in a bipartite network (e.g., people)
<code>vertex2</code>	string: Entity represented by <code>TRUE</code> nodes in a bipartite network
<code>positive</code>	string: Relationship represented by (positive) edges (e.g., friendship)
<code>negative</code>	string: Relationship represented by negative edges, if present
<code>weight</code>	string: What the edge weights represent (e.g., frequency, intensity, multiplexity)
<code>level</code>	string: Scale on which edge weights are measured (e.g., continuous, count, ordinal, categorical)
<code>mode</code>	string: Mode of data collection (e.g., survey, interview, sensor, observation, archival, simulation)
<code>year</code>	numeric: Year in which data was collected (e.g., 1977)

**Value**

An [igraph](#) object

**Examples**

```
G <- igraph::make_graph("Zachary") #An example network

G <- grand_manual(G, #Manually enter information
  name = "Zachary Karate Club",
  doi = "10.1086/jar.33.4.3629752",
  url = "https://networks.skewed.de/net/karate",
  vertex1 = "People",
  positive = "Friendship",
  mode = "Observation",
  year = "1977")

grand(G, mode = "statement") #Display summary statement
```

# Index

grand, [2](#)  
grand\_manual, [3](#)  
igraph, [2–4](#)