## Interactive Bayesian Network Strength Viewer Robson Fernandes

Show the strength of the probabilistic relationships expressed by the arcs of a Bayesian network, and use model averaging to build a network containing only the significant arcs.

## Install from GitHub.

```
install.packages("devtools")
devtools::install_github("robson-fernandes/bnviewer")
```

## **Example**

```
library(bnlearn)
library(bnviewer)
data("coronary")
bayesianNetwork.boot.strength = boot.strength(coronary, R = 10,
                                              algorithm = "hc",
                                              nrow(data),
                                              cpdag = TRUE,
                                              debug = FALSE)
bayesianNetwork.boot.strength[(bayesianNetwork.boot.strength$strength > 0.95) &
                              (bayesianNetwork.boot.strength$direction >= 1), ]
avg.bayesianNetwork = averaged.network(bayesianNetwork.boot.strength)
strength.viewer(
  avg.bayesianNetwork,
  bayesianNetwork.boot.strength,
  bayesianNetwork.arc.strength.threshold.expression.color = "@threshold >= 0.95 & @threshold <= 1",
 bayesianNetwork.arc.strength.threshold.color = "#f4bafd",
  bayesianNetwork.arc.strength.label = TRUE,
  bayesianNetwork.arc.strength.label.prefix = "",
  bayesianNetwork.arc.strength.label.color = "black",
 bayesianNetwork.arc.strength.tooltip = TRUE,
 bayesianNetwork.edge.scale.min = 1,
 bayesianNetwork.edge.scale.max = 5,
```

## Output

