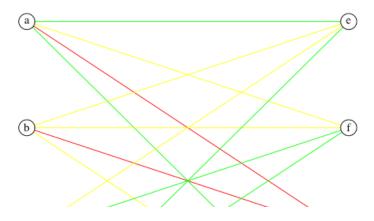


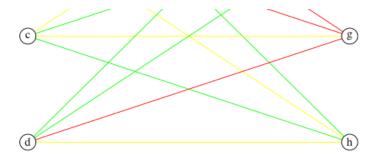


## Adjusting the node size in igraph using a matrix

I have the following network diagram:

```
set.seed(1410)
df<-data.frame(</pre>
"site.x"=c(rep("a",4),rep("b",4),rep("c",4),rep("d",4)),
"site.y"=c(rep(c("e","f","g","h"),4)),
"bond.strength"=sample(1:100,16, replace=TRUE))
library(igraph)
df<-graph.data.frame(df)</pre>
V(df)$names <- c("a","b","c","d","e","f","g","h")
layOUT<-data.frame(x=c(rep(1,4),rep(2,4)),y=c(4:1,4:1))
E(df)[ bond.strength < 101 ]$color <- "red"</pre>
E(df)[ bond.strength < 67 ]$color <- "yellow"</pre>
E(df)[ bond.strength < 34 ]$color <- "green"</pre>
V(df)$color <- "white"
1<-as.matrix(layOUT)</pre>
plot(df,layout=1,vertex.size=10,vertex.label=V(df)$names,
edge.arrow.size=0.01,vertex.label.color = "black")
```





and would like to adjust the size of the nodes using a matrix such as this:

Any sugestions how I go about this?

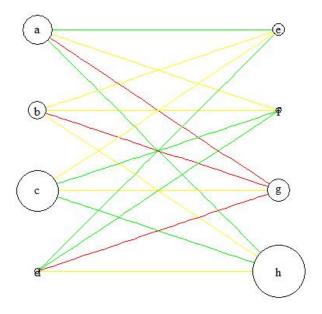


## add a common

1 Answer

## You could use

```
node.size<-setNames(c(25, 15, 35, 5, 10, 5, 19, 44),c("a", "b","c", "d", "e", "f", "g
plot(df,layout=1,vertex.label=V(df)$names,
edge.arrow.size=0.01,vertex.label.color = "black",vertex.size=node.size)
so basically a named vector.
plot(df,layout=1,vertex.label=V(df)$names,
edge.arrow.size=0.01,vertex.label.color = "black",vertex.size=as.matrix(node.size) )
would also work</pre>
```



## UPDATE:

If you need to use your m matrix

```
plot(df,layout=1,vertex.label=V(df)$names,
edge.arrow.size=0.01,vertex.label.color = "black",vertex.size=m[m!=0])
```

edited Aug 22 '12 at 10:48



So in using a matrix or data.frame to create the named vector is it necessary to use the setNames function? Could you give an example of how I would use the matrix m in my example to create the named vector and how this should be inserted in to "vertex.size=". Thanks so much. — Elizabeth Aug 22 '12 at 10:39

Thanks a million! - Elizabeth Aug 22 '12 at 11:14

add a comment

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