

Ryan Compton



Community detection and colored plotting in networkx

Just came across this very easy library for community detection

<https://sites.google.com/site/findcommunities/> <https://bitbucket.org/taynaud/python-louvain/src>. Here's how to create a graph, detect communities in it, and then visualize with nodes colored by their community in less than 10 lines of python:

Published

16 June 2014

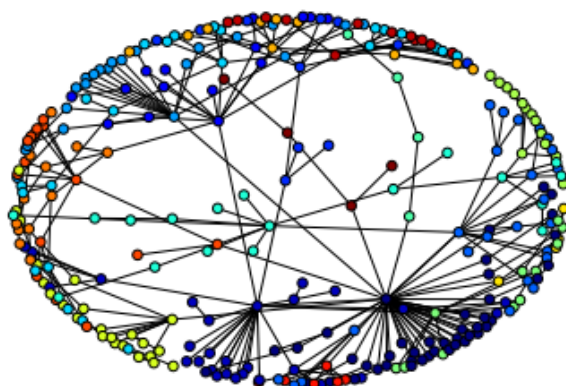
Tagscoding ²⁰

```
import networkx as nx
import community

G = nx.random_graphs.powerlaw_cluster_graph(300, 1, .4)

part = community.best_partition(G)
values = [part.get(node) for node in G.nodes()]

nx.draw_spring(G, cmap = plt.get_cmap('jet'), node_color = values,
               node_size=30, with_labels=False)
```



It's easy to get **modularity** to:

```
mod = community.modularity(part,G)
print("modularity:", mod)
```

gave `modularity: 0.8700238252368541`.

[← Previous](#)[Archive](#)[Next →](#)





CommentsCommunity

1 Login

RecommendTweetShareSort by Best

Join the discussion...

LOG IN WITHOR SIGN UP WITH DISQUS ?



Name

- 

tmsss • 3 years ago

I had the same error, I fixed it importing this way: `import community.community_louvain as community`

1 ^ ▾ • Reply • Share ▾
- 

Michael Alves Da Cruz • 10 months ago

Thank you so much, you help me to finish my final paper.

^ ▾ • Reply • Share ▾
- 

Michael Alves Da Cruz • 10 months ago

You need to go to cmd and write `pip install python-louvain` before use that algorithm to work

^ ▾ • Reply • Share ▾
- 

Michael • 3 years ago

``AttributeError: 'module' object has no attribute 'best_partition``
Can't tell which version of ``community`` I am using, because that module does not even have a ``__version__`` attribute.

^ ▾ • Reply • Share ▾
- 

SMS • 3 years ago

Thanks for the information!

^ ▾ • Reply • Share ▾

ALSO ON RYANCOMPTON.NET


Algorithm Sonification II: Gauss Seidel method

1 comment • 5 years ago

 Ryan — Comment


Sample pom.xml to build Scala *-jar-with-

2 comments • 5 years ago

 Ryan — comment


Studying automotive sensor data with Open Torque Viewer

7 comments • 4 years ago

 nagordon — great post. I just

Upvotes over time by subreddit or: Why

1 comment • 3 years ago

 トランプvapor trump



Creative Commons Attribution license; 2017 Ryan Compton; Blog built with Jekyll Bootstrap and The

Hooligan Theme