Untitled12

December 15, 2022

[1]:
```
import networkx as nx
import numpy as np

import matplotlib.pyplot as plt
import seaborn as sns
```

[2]:
```
G_BA = nx.barabasi_albert_graph(1000, 7)
```

[3]:
```
nx.set_node_attributes(G_BA, False, "is_infected")

nx.set_node_attributes(G_BA, 0, 'day_of_infection')
nx.set_node_attributes(G_BA, 0, 'day_of_immunity')
nx.set_node_attributes(G_BA, False, 'has_been_infected')
nx.set_node_attributes(G_BA, False, 'is_dead')



for i in G_BA.nodes(data=True):
    print(i)
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'has_been_infected': False, 'is_dead': False})
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'has_been_infected': False, 'is_dead': False})
(990, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(991, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(992, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(993, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(994, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(995, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(996, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(997, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(998, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
(999, {'is_infected': False, 'day_of_infection': 0, 'day_of_immunity': 0,
'has_been_infected': False, 'is_dead': False})
```
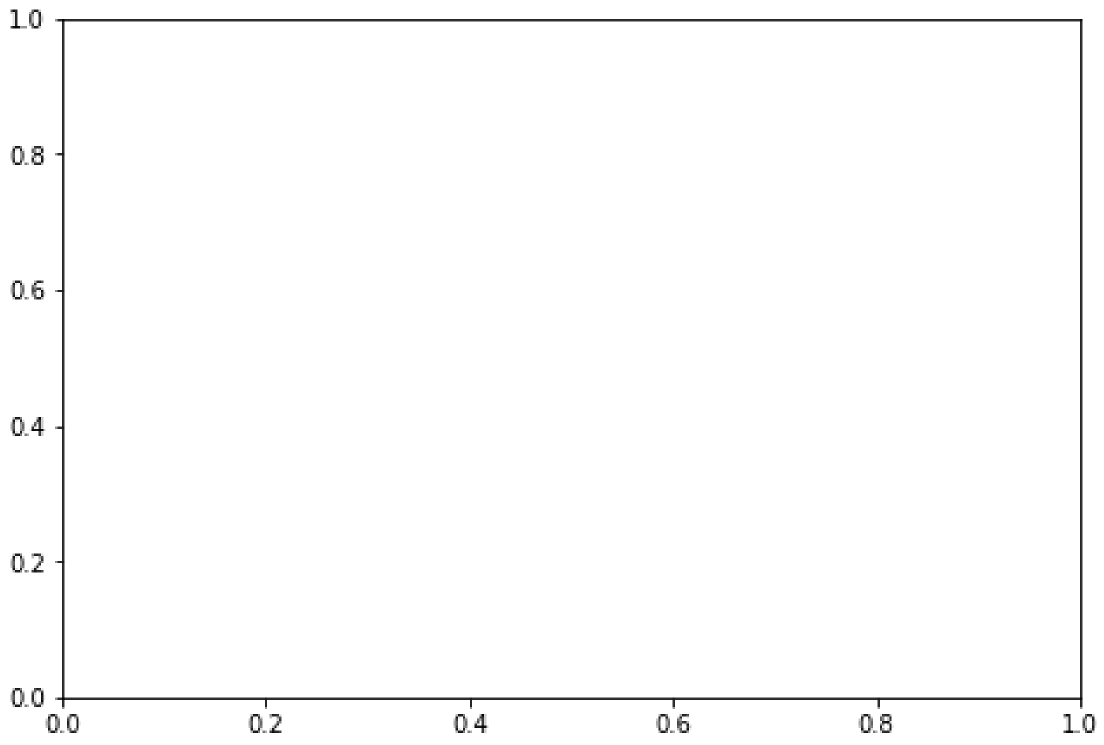

[4]:
```
from collections import Counter
def draw_sick(graph):
    color_map = []
    for i in range(len(graph)):
        if graph.nodes[i]["is_infected"]:
            color_map.append('red')
        if graph.nodes[i]["is_dead"]:
            color_map.append('black')
        else:
            color_map.append('blue')
    print(Counter(color_map))
    nx.draw(graph, node_color=color_map)
```

[5]:
```
G_BA.nodes[0]["is_infected"] = True
G_BA.nodes[0]["has_been_infected"] = True
G_BA.nodes[0]["day_of_infection"] = 7
infection_count = 0

for day in range(50):
    new_sick = []
    for node in range(1000):
        if G_BA.nodes[node]["is_infected"]:
            for n in G_BA.neighbors(node):
                if np.random.rand(1) < 0.025:
                    new_sick.append(n)
            if np.random.rand() < 0.03:
                G_BA.nodes[node]["is_dead"] = True
                G_BA.nodes[node]["is_infected"] = False
            G_BA.nodes[node]["day_of_infection"] -= 1
            if G_BA.nodes[node]["day_of_infection"] == 0:
                G_BA.nodes[node]["is_infected"] = False
                G_BA.nodes[node]["day_of_immunity"] = 21
        if G_BA.nodes[node]["day_of_immunity"] > 0:
            G_BA.nodes[node]["day_of_immunity"] -= 1
    for i in set(new_sick):
        if G_BA.nodes[i]["is_infected"] or G_BA.nodes[i]["day_of_immunity"] > 0␣
↪or G_BA.nodes[node]["is_dead"]:
            continue
        G_BA.nodes[i]["is_infected"] = True
        G_BA.nodes[i]["day_of_infection"] = 7

        G_BA.nodes[i]["has_been_infected"] = True
        infection_count += 1
```

[6]:
```
draw_sick(G_BA)
```

```
Counter({'blue': 818, 'red': 371, 'black': 182})


      ␣
↪---------------------------------------------------------------------------

        ValueError                                Traceback (most recent call␣
↪last)

        <ipython-input-6-a62b6c369a4b> in <module>
    ----> 1 draw_sick(G_BA)


        <ipython-input-4-99cff0b17920> in draw_sick(graph)
         10             color_map.append('blue')
         11     print(Counter(color_map))
    ---> 12     nx.draw(graph, node_color=color_map)


        ~/.local/lib/python3.8/site-packages/networkx/drawing/nx_pylab.py in␣
↪draw(G, pos, ax, **kwds)
        119         kwds["with_labels"] = "labels" in kwds
        120
    --> 121     draw_networkx(G, pos=pos, ax=ax, **kwds)
        122     ax.set_axis_off()
        123     plt.draw_if_interactive()


        ~/.local/lib/python3.8/site-packages/networkx/drawing/nx_pylab.py in␣
↪draw_networkx(G, pos, arrows, with_labels, **kwds)
        331         pos = nx.drawing.spring_layout(G)  # default to spring layout
        332
    --> 333     draw_networkx_nodes(G, pos, **node_kwds)
        334     draw_networkx_edges(G, pos, arrows=arrows, **edge_kwds)
        335     if with_labels:


        ~/.local/lib/python3.8/site-packages/networkx/drawing/nx_pylab.py in␣
    ↪draw_networkx_nodes(G, pos, nodelist, node_size, node_color, node_shape,␣
    ↪alpha, cmap, vmin, vmax, ax, linewidths, edgecolors, label, margins)
        460         alpha = None
        461
    --> 462     node_collection = ax.scatter(
        463         xy[:, 0],
        464         xy[:, 1],


        ~/.local/lib/python3.8/site-packages/matplotlib/__init__.py in inner(ax,␣
    ↪data, *args, **kwargs)
       1359     def inner(ax, *args, data=None, **kwargs):
       1360         if data is None:
    -> 1361             return func(ax, *map(sanitize_sequence, args), **kwargs)
       1362
       1363         bound = new_sig.bind(ax, *args, **kwargs)


        ~/.local/lib/python3.8/site-packages/matplotlib/axes/_axes.py in␣
    ↪scatter(self, x, y, s, c, marker, cmap, norm, vmin, vmax, alpha, linewidths,␣
    ↪edgecolors, plotnonfinite, **kwargs)
       4514             orig_edgecolor = kwargs.get('edgecolor', None)
       4515         c, colors, edgecolors = \
    -> 4516             self._parse_scatter_color_args(
       4517                 c, edgecolors, kwargs, x.size,
       4518                 get_next_color_func=self._get_patches_for_fill.
    ↪get_next_color)


        ~/.local/lib/python3.8/site-packages/matplotlib/axes/_axes.py in␣
    ↪_parse_scatter_color_args(c, edgecolors, kwargs, xsize, get_next_color_func)
       4364                     # NB: remember that a single color is also␣
    ↪acceptable.
       4365                     # Besides *colors* will be an empty array if c␣
    ↪== 'none'.
    -> 4366                     raise invalid_shape_exception(len(colors), xsize)
       4367         else:
       4368             colors = None  # use cmap, norm after collection is␣
    ↪created
```

```
        ValueError: 'c' argument has 1371 elements, which is inconsistent with␣
↪'x' and 'y' with size 1000.
```



```
[7]: i_count = 0
     for i in range(len(G_BA)):
         if G_BA.nodes[i]["has_been_infected"]:
             i_count += 1
```

```
[8]: (0.97**7 - 1) * (-1)
```

```
[8]: 0.1920171552188702
```

```
[9]: i_count
```

```
[9]: 873
```

```
[ ]:
```