Manual CLI Network.py

1 de diciembre de 2019

Ejecutamos el CLI de python desde donde queramos que se guarden los grafos generados, en este caso sera desde la subcarpeta 'graphs/'

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Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py --help
Usage: network.py [OPTIONS] COMMAND [ARGS]...

  Simple CLI for producing network models

Options:
  --help  Show this message and exit.

Commands:
  barabasi-albert
  erdos-renyi
```

Tenemos 2 opciones para generar modelos de grafo, barabasi-albert y erdos-renyi

```
Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py barabasi-albert --help
Usage: network.py barabasi-albert [OPTIONS]

Options:
  --n INTEGER   number of nodes
  --m INTEGER   indicates the m value, must be m < n
  --help        Show this message and exit.

Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py erdos-renyi --help
Usage: network.py erdos-renyi [OPTIONS]

Options:
  --n INTEGER      number of nodes
  --p FLOAT        indicates the p value, probability
  --total INTEGER  indicate how many random graphs do you want
  --help           Show this message and exit.
```

Y dependiendo del modelo, unos parámetros diferentes,En Barabasi Albert tenemos dos parametros numero de nodos (ej –n 500) y el valor de nodos iniciales m (ej –m 3)

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Erdos Renyi tendremos el numero de nodos (ej –n 500) probabilidad (ej –p 0.001) y el numero total de grafos a generar (ej –total 10)

En ambos podemos no especificar nada y se generara un grafo con sus parametros por defecto, (n=500, m=3, p=0.001 y total=1)

```
Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py barabasi-albert --n 500 --m 3
generating barabasi albert model with n = 500, m = 3

Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py barabasi-albert --n 500 --m 4
generating barabasi albert model with n = 500, m = 4

Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py barabasi-albert --n 5000 --m 3
generating barabasi albert model with n = 5000, m = 3

Wilson@DESKTOP-6RSOTF8 MINGW64 ~/Jupyter/Social-Network-Analysis/P2/cli (master)
$ python network.py barabasi-albert --n 5000 --m 4
generating barabasi albert model with n = 5000, m = 4
```