

MARVEList

USER TUTORIAL

Marvelist is a program that allows you to learn about the Marvel comic universe's social network.

RUNNING THE PROGRAM

To run Marvelist on a Linux system:

- Open up the terminal

- Move to the Marvelist directory

- Install dependencies (See Documentation)

- Activate the virtual environment

```
source env/bin/actiate
```

- Run Marvelist.py

```
python marvelist.py
```

1. THE START SCREEN

The Start Screen allows you to chose between two tasks: A) learning about an individual character's network and B) finding the common appearances between two characters.

A. To learn about an individual character's social network, click on:

**View Individual
Character's Network**

A text entry box will appear.

Character name:

Enter

Type a character's name in the box. If you are unsure of the spelling, type the first few letters and the box can autocomplete the name. Use the arrow keys to scroll through the possible matches. Click .

B. To find common appearances between two characters, click on:

**Find Common Appearances
Between Two Characters**

Two text entry boxes will appear.


Character names:

Enter

Type each character's name in a box. If you are unsure of the spelling, type the first few letters and the box can autocomplete the name. Use the arrow keys to scroll through the possible matches. Click **Enter** when both names are in the boxes.

2. THE INDIVIDUAL CHARACTER SCREEN

CAPTAIN AMERICA








Name: Steven "Steve" Rogers

First Appearance: (Captain America) Captain America Comics #1 (1941); (Nomad) Captain America #180 (1974); (Captain) Captain America #337 (1988)

Character's Network

Top 5 Encounters

Iron Man

Thor

Vision

Wasp

Scarlet Witch

Network Statistics

Degrees: 307

Closeness centrality: 0.729

Betweenness centrality: 0.051

How close character is to all other characters in network.

Proportion of paths between other characters on which character lies.

A

B

C

D

The Individual Character Network Screen (bottom of Page 2) shows information about the **individual character's** identity including the character's full name and first appearance. It also shows information about the character's social network. This includes the top five characters with which the character shares the most common appearances as well as some network statistics explained below.

A. TOP ENCOUNTER LINKS

To find the common appearances between the **individual character** and any of the character in the Top 5 Encounters, click on yellow button with the character's name. For example, to find the common appearances between Captain America and Iron Man, click [Iron Man](#). This will open a new Common Appearances window.

B. DEGREES

The number of degrees refers to the total number of characters that have appeared with the **individual character** in the same comic book.

C. CLOSENESS CENTRALITY

Closeness Centrality refers to the proportion of all characters in the network that have appeared in the same comic book as the **individual character**.


B. BETWEENNESS CENTRALITY

Betweenness Centrality refers to the proportion of times the **individual character** acts as a bridge along the shortest path between two other characters.

2. THE COMMON APPEARANCES SCREEN

A

CAPTAIN AMERICA




Name: Steven "Steve" Rogers
First Appearance: (Captain America) Captain America Comics #1 (1941); (Nomad) Captain America #180 (1974); (Captain) Captain America #337 (1988)

274 Common Appearances

Avengers #10	1964
Avengers #4	1964
Avengers #5	1964
Avengers #6	1964
Avengers #7	1964
Avengers #8	1964
Avengers #9	1964
Amazing Spider-Man #18	1964
Fantastic Four #25	1964
Fantastic Four #26	1964
Fantastic Four #31	1964
Journey Into Mystery #105	1964
Avengers #12	1965
Avengers #13	1965
Avengers #14	1965
Avengers #15	1965
Avengers #16	1965
Fantastic Four #36	1965
Journey Into Mystery #116	1965
Uncanny X-Men #9	1965
Avengers #32	1966
Avengers #45	1967
Strange Tales #156	1967
Avengers #51	1968
Avengers #52	1968

IRON MAN



Name: Anthony Edward "Tony" Stark
First Appearance: Tales of Suspense #39 (1963)

The Common Appearances show identity information of the two characters and lists all common appearances between them in chronological order along with the year of publication.

A. LINKS TO INDIVIDUAL CHARACTER NETWORK SCREEN

To find out more information about one of the characters' individual network, click on the yellow button containing their name. This will open up a new Individual Character Network window.