CS 242 Assignment 2.1
Manual Test Plan
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Data-analysis and visualization parts:

By running Main.py you will see:
Chose int value from one of the following:
1 = Show the hub Star:
2 = Display raw (all stars) Star correlation graph
3 = Display main hub Stars graph
4 = Show which age group have the most gross value?
5 = Display the age v.s. gross graph
0 = EXIST

Result of Enter 1:

```
1
The hub star is: Bruce Willis



Chose int value from one of the following:
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5 = Display the age v.s. gross graph
0 = EXIST
```
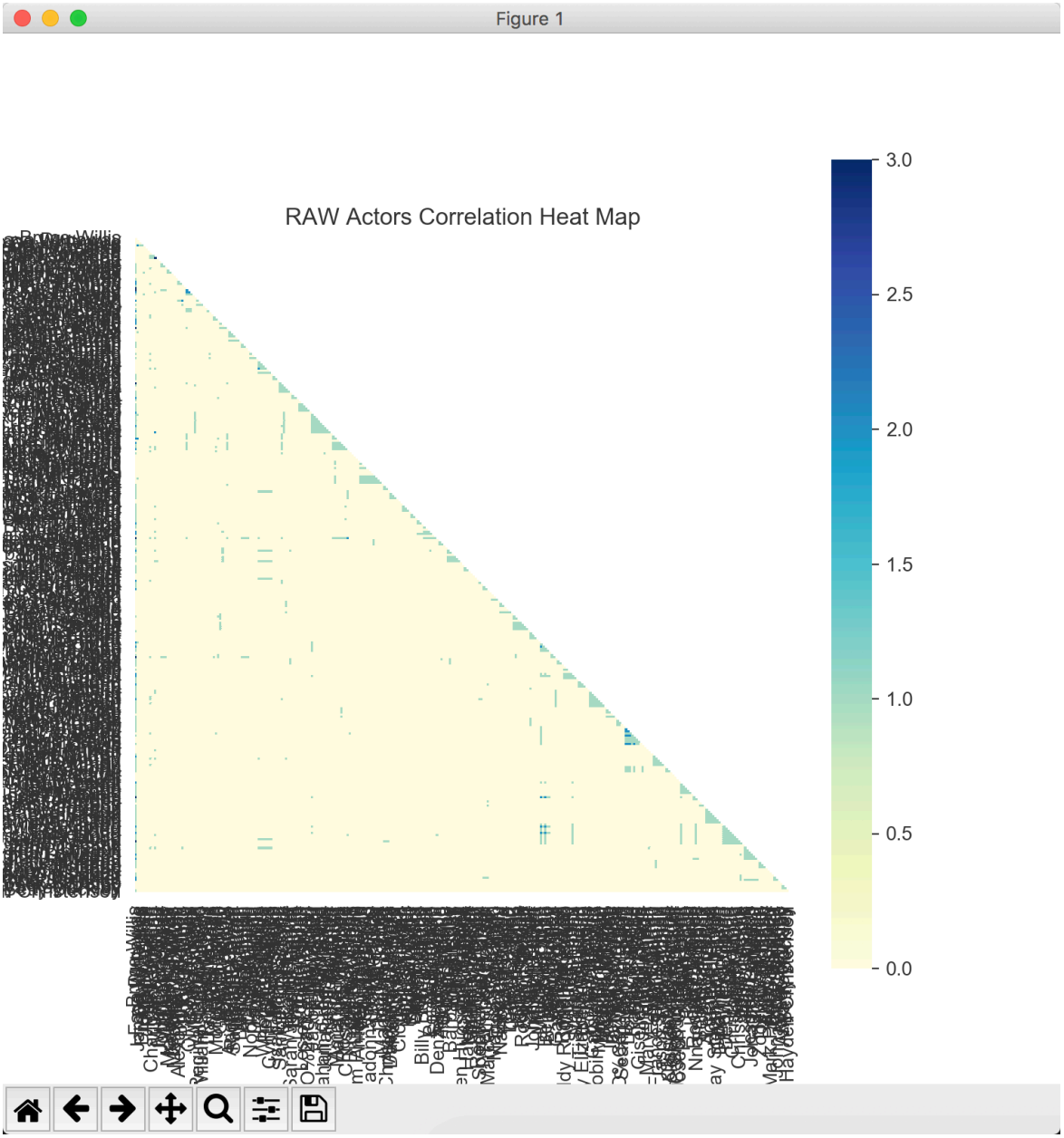

Result of Enter 2:



Zoom in:

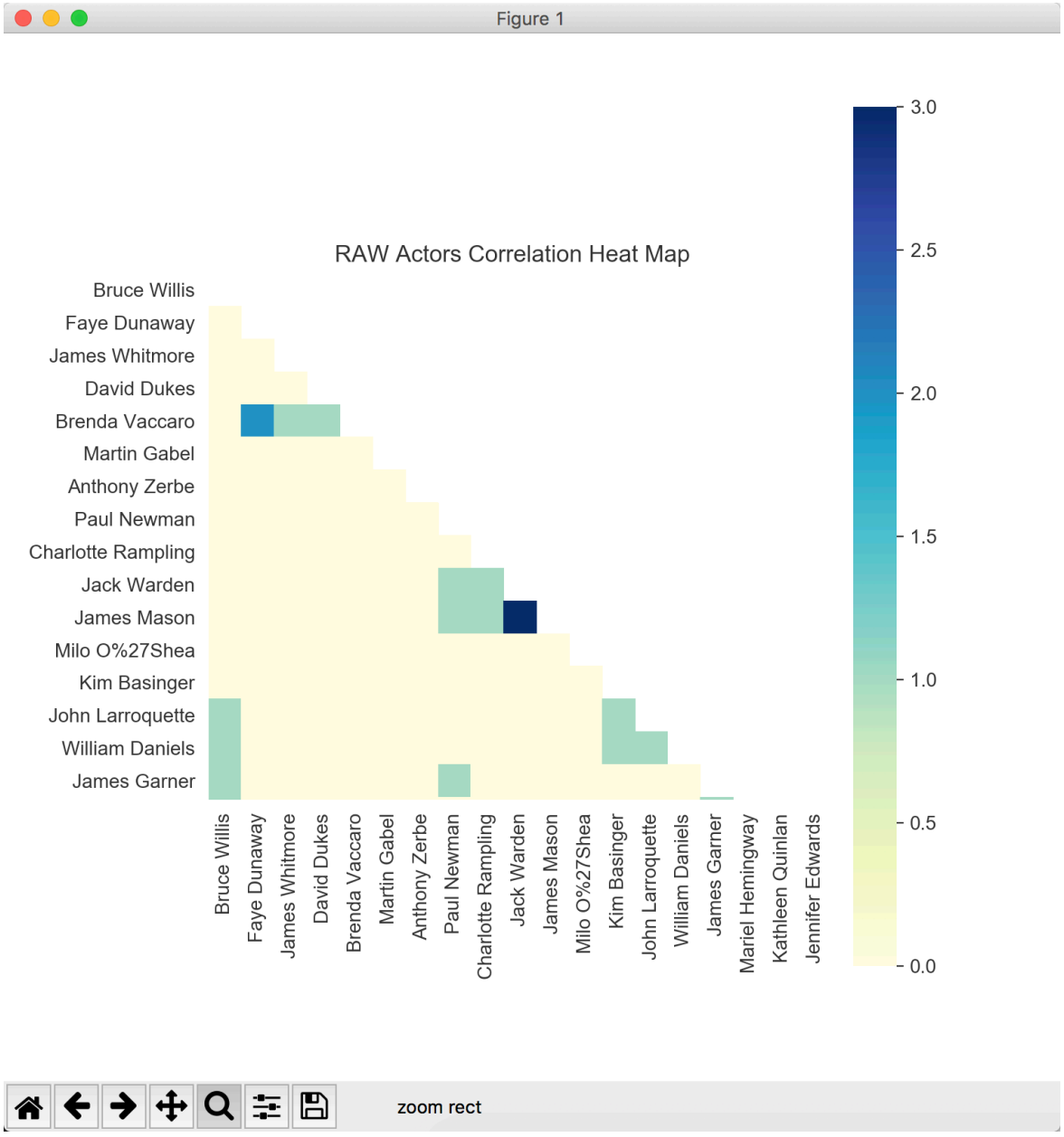
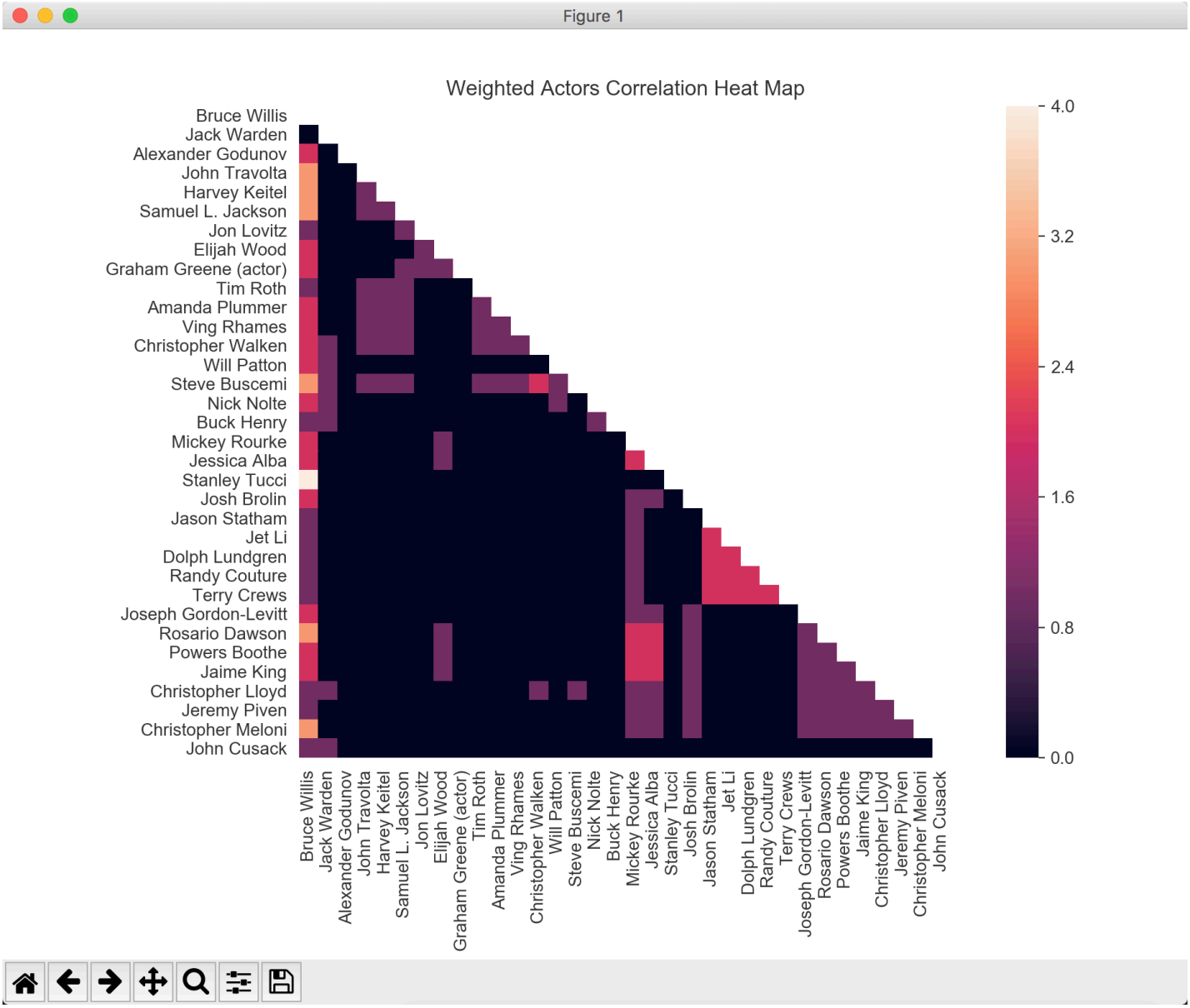


Figure 1
RAW Actors Correlation Heat Map
Bruce Willis
Faye Dunaway
James Whitmore
David Dukes
Brenda Vaccaro
Martin Gabel
Anthony Zerbe
Paul Newman
Charlotte Rampling
Jack Warden
James Mason
Milo O%27Shea
Kim Basinger
John Larroquette
William Daniels
James Garner
Mariel Hemingway
Kathleen Quinlan
Jennifer Edwards
3.0
2.5
2.0
1.5
1.0
0.5
0.0
zoom rect

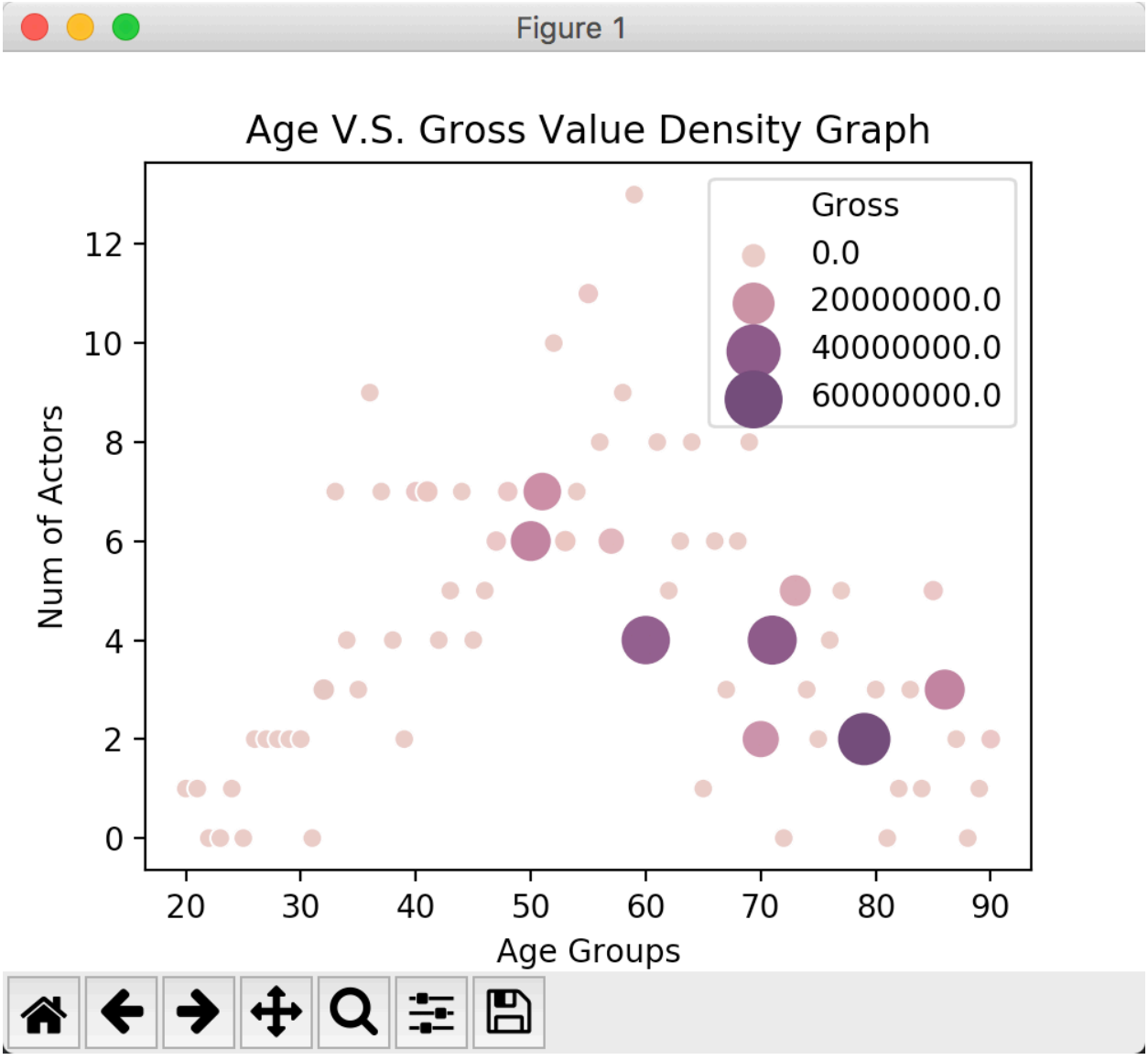
Enter 3 to see weighted actor correlation map:



Result of enter 4:

```
4
['20+', '30+', '40+', '50+', '60+', '70+', '80+']
[22212084, 2216132, 178214618, 1027863196, 1005773688, 1001143378, 1150162485]

The age group that have the mac gross value is :80+
With total gross: 6
```

Result of enter 5:



Enter 0 to exist.

API parts:

Running api.py:

```
 * Serving Flask app "app" (lazy loading)
 * Environment: production
   WARNING: Do not use the development server in a production environment.
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 306-421-586
```

Open Post Man:

GET:
http://localhost:5000/actor/all


```
[
    "Bruce Willis",
    "Faye Dunaway",
    "James Whitmore",
    "David Dukes",
    "Brenda Vaccaro",
    "Martin Gabel",
    "Anthony Zerbe",
    "Paul Newman",
    "Charlotte Rampling",
    "Jack Warden",
    "James Mason",
    "Milo O%27Shea",
    "Kim Basinger",
    "John Larroquette".
```


GET:
http://localhost:5000/actor/James Whitmore


```
{
    "age": 87,
    "json_class": "Actor",
    "movies": [
        "Command Decision",
        "Battleground",
        "Give 'em Hell, Harry!",
        "Glory! Glory!",
        "The Practice",
        "Here's to Life!",
        "Mister Sterling"
    ],
    "name": "James Whitmore",
    "total_gross": 6269000
}
```

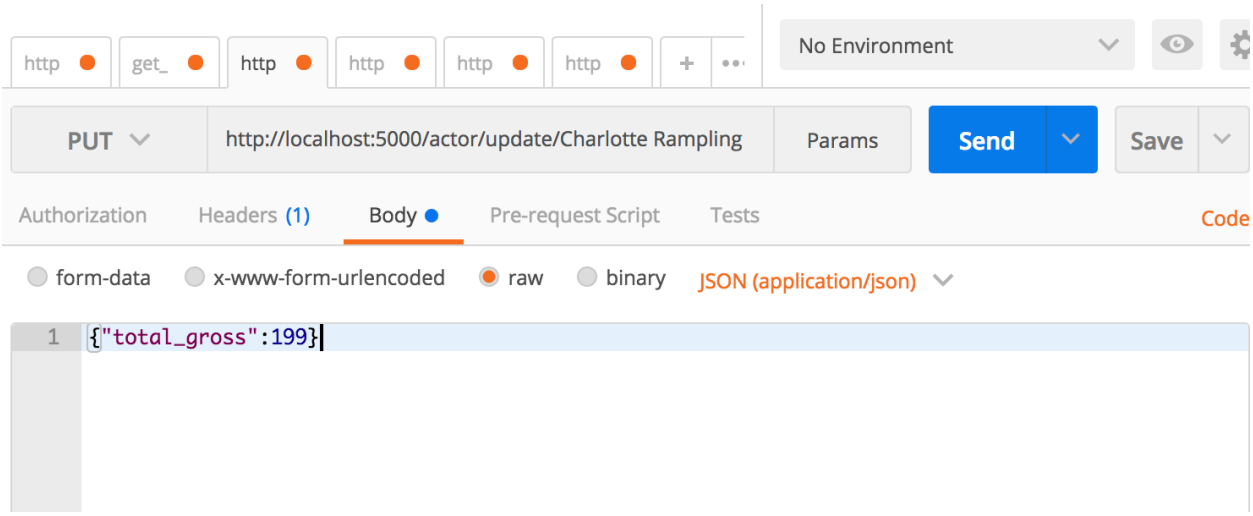
GET:
http://localhost:5000/actor?name=Faye&age=76


```
{
    "age": 76,
    "json_class": "Actor",
    "movies": [
        "The Happening",
        "Hurry Sundown",
        "Bonnie and Clyde",
        "The Thomas Crown Affair",
        "A Place for Lovers",
        "The Extraordinary Seaman",
        "The Arrangement",
        "Little Big Man",
        "Puzzle of a Downfall Child",
```

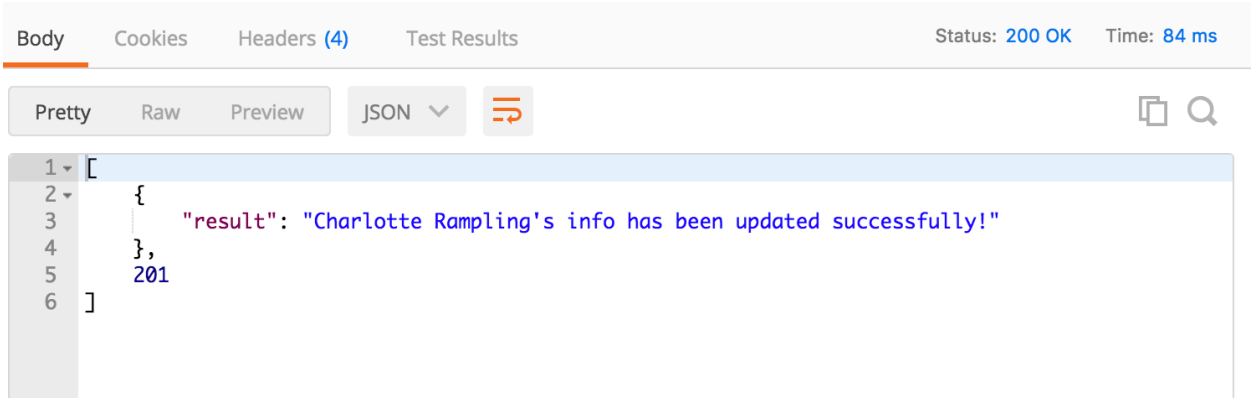

GET:
http://localhost:5000/actor?name=Faye&age=76


```
{
    "Brion James": {
        "age": -1,
        "json_class": "Actor",
        "movies": [],
        "name": "Brion James",
        "total_gross": 0
    },
    "James Coburn": {
        "age": 74,
        "json_class": "Actor",
        "movies": [
            "Ride Lonesome",
            "Face of a Fugitive",
            "The Magnificent Seven",
            "Hell Is for Heroes",
            "The Great Escape",
```


PUT:
http://localhost:5000/actor/update/Charlotte Rampling {"total_gross":199}



Result:

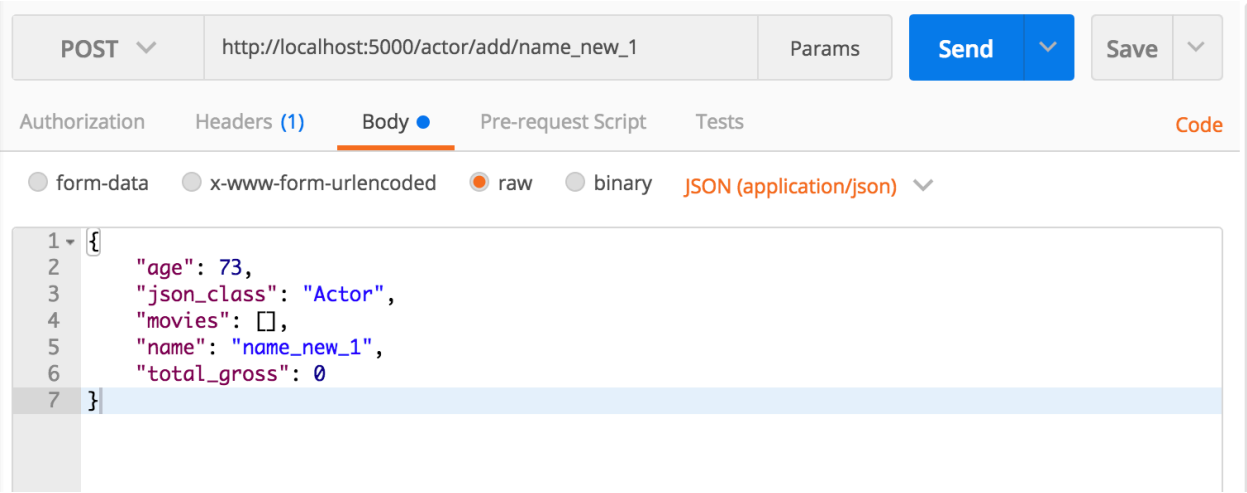


In Json data:

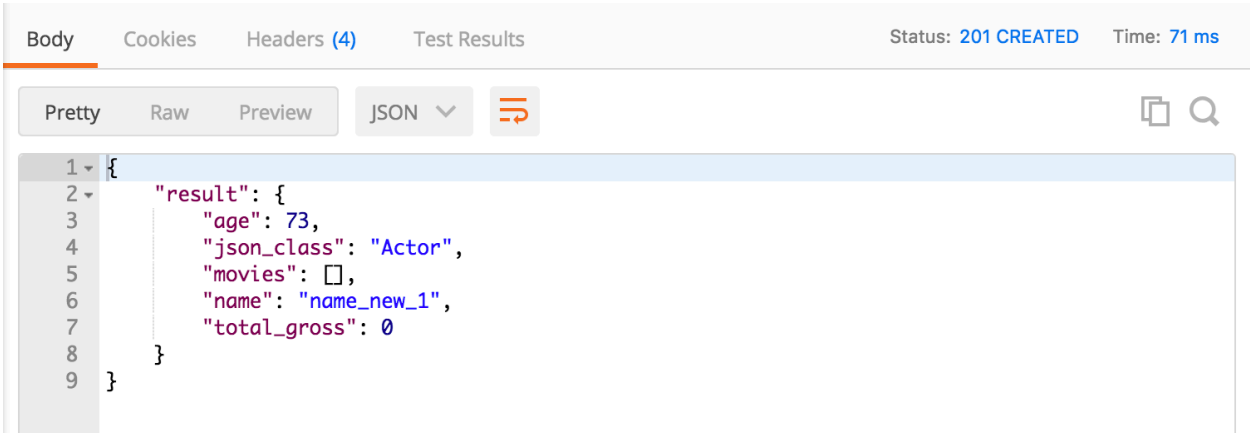
POST:

http://localhost:5000/actor/add/name_new_1


```
{
   "age": 73,
   "json_class": "Actor",
   "movies": [],
   "name": "name_new_1",
   "total_gross": 0
}
```



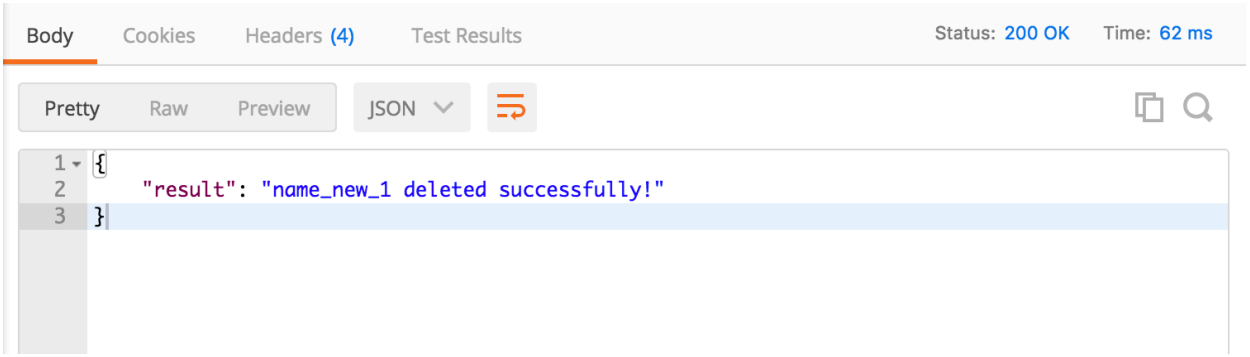
Result:



In Json data:

DELETE:

http://localhost:5000/actor/delete/name_new_1



In Json data: