

# Check-point

## Session 4: Object

### Video 1: Object - Init (after 7)

Declare a variable named movie with an object value, containing the following properties:

- title, For example: 'The dark night rises'
- year, For example: 2012
- rate, For example: 8.4

### Video 2: Object - Read (after 9)

2.1 Log all of 3 the properties of the movie object to the console using 2 different ways

2.2 Log an non-existent property of the movie, director, what is the result?

2.3 You can check whether a value is undefined (has no value) or not by using if - else pair for example:

```
if (x == null || x == undefined) {  
    alert('x is null or undefined');  
} else {  
    alert('x has real value');  
}
```

You can test it against:

```
let x = 5; // has value
```

Or

```
let x; // no value or undefined
```

Now apply it to upgrade Read object, after users enter the property, check whether the property exists, if yes, show them the value, if no, tell them that

127.0.0.1:5500 says

What you want to know?

Cancel OK



127.0.0.1:5500 says

Attack on titans

OK

127.0.0.1:5500 says

What you want to know?

Cancel OK



127.0.0.1:5500 says

'casts' does not exist in our data

OK

### Video 3: Object - Update (after 10)

#### 3.1 Update

- Change the rate of the movie to 8.7
- Increase the rate of the movie by 0.5

3.2 Write a script, asking users what they want to update and what is the update, perform the update and then log out the result

127.0.0.1:5500 says

What you want to update?

Cancel OK



127.0.0.1:5500 says

What is the update?

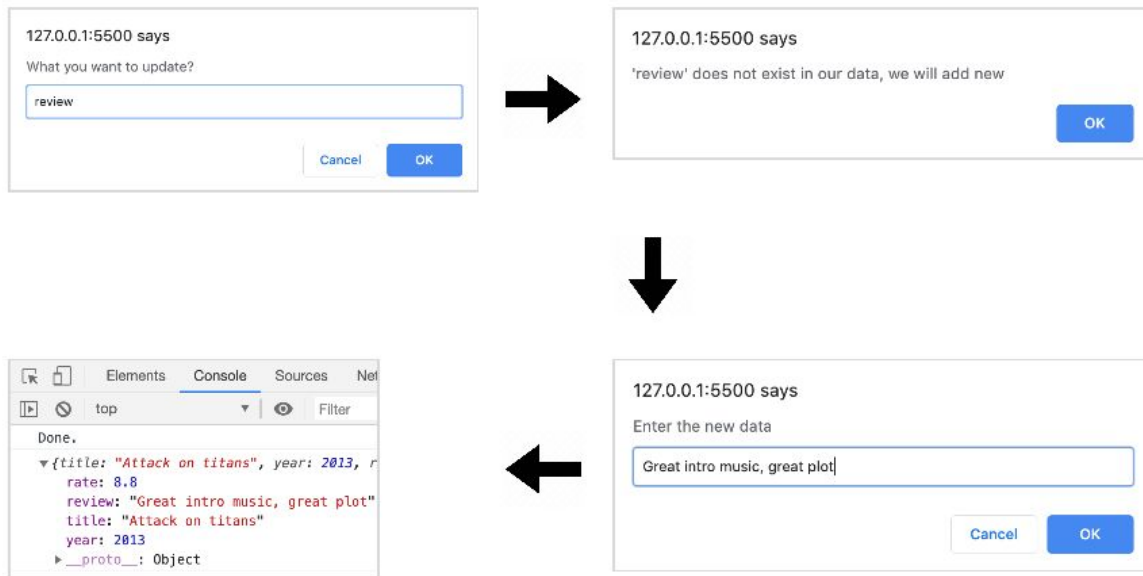
Cancel OK



```
Done. New data:
▼ {title: "ATTACK ON TITANS",
  rate: 8.8,
  title: "ATTACK ON TITANS",
  year: 2013,
  __proto__: Object}
```

#### Video 4: Object - Create (after 11)

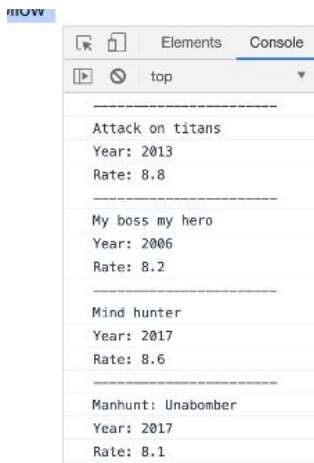
Upgrade Update script to check whether the property entered by users exist, if yes, perform as usual, if no, tell them that we will add new and perform create



The rest is the same

#### Video 5: Array of Objects (after 4)

1. Create an array called movies, containing at least 3 movie data with the same structure all have title, year and rate (you can add more property if you like)
2. Print or log out the first movie from movie list
3. Print or log out the title of the last movie from movie list
4. Use a loop to print or log out all of the movie in the movie list
5. Use a loop to print or log out all of the movie in the movie list, the data is prettified as follow

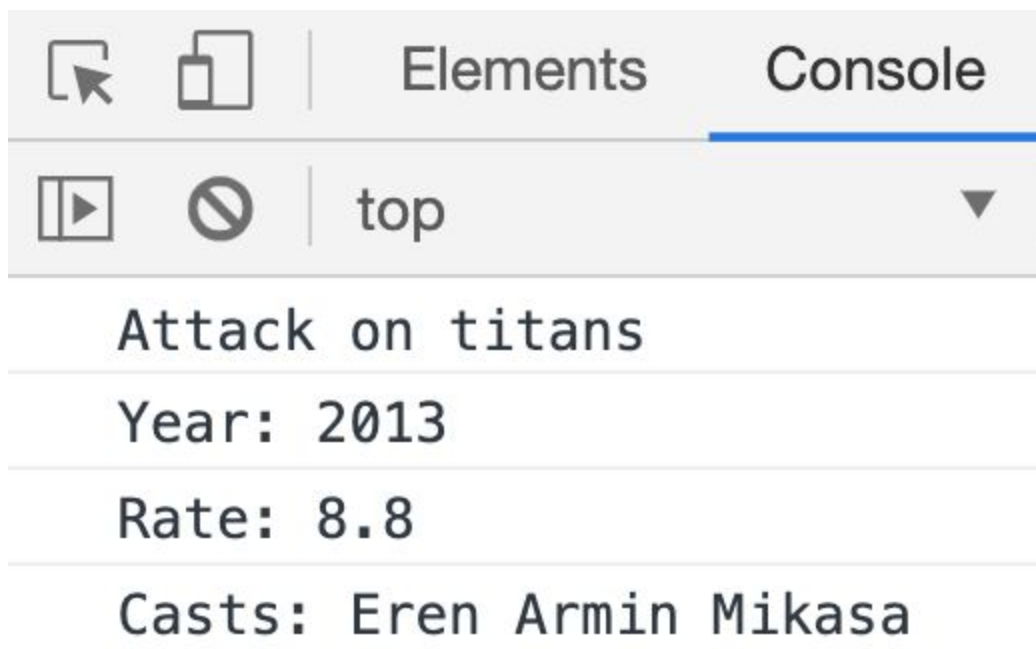


| -----              |
|--------------------|
| Attack on titans   |
| Year: 2013         |
| Rate: 8.8          |
| -----              |
| My boss my hero    |
| Year: 2006         |
| Rate: 8.2          |
| -----              |
| Mind hunter        |
| Year: 2017         |
| Rate: 8.6          |
| -----              |
| Manhunt: Unabomber |
| Year: 2017         |
| Rate: 8.1          |

6. Increase the rate of the last movie in the movies list by 0.7

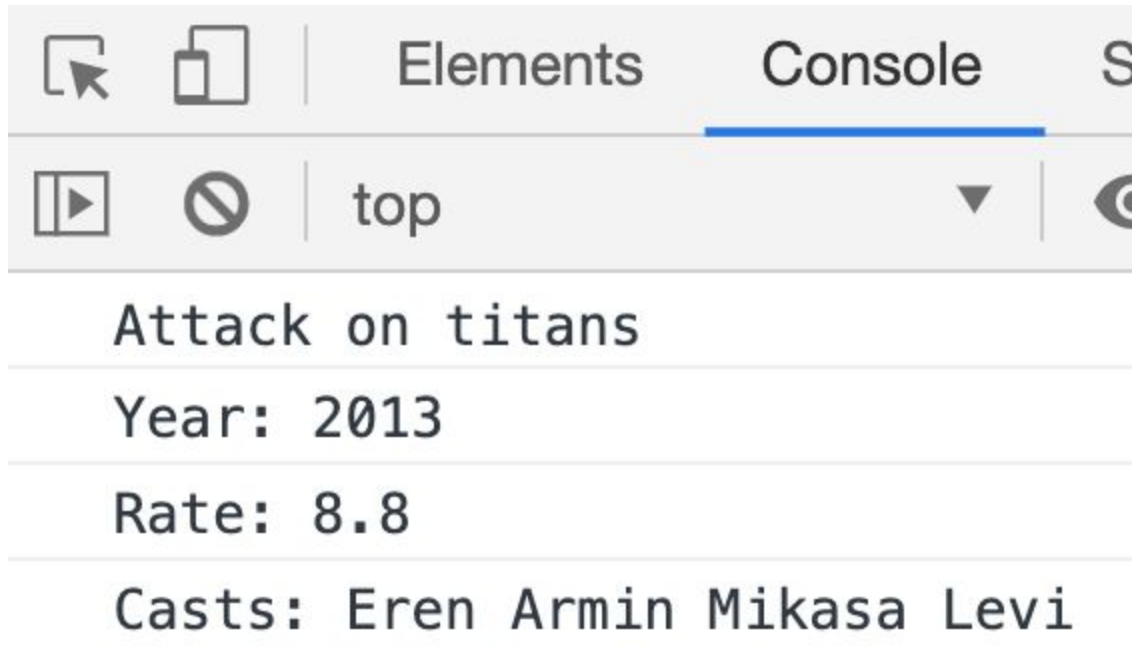
#### Video 6: Object containing array

1. Create an object named movie, with title, year and rate and characters. The characters contain at least 3 characters of the movie
2. Print or log out the movie data in the following format (Note, remember the spread operator ... for fast logging an array):



| Attack on titans         |
|--------------------------|
| Year: 2013               |
| Rate: 8.8                |
| Casts: Eren Armin Mikasa |

3. Add new cast to the movie and then log it back



#### Video 7: Object and Array mix structure

1. Create an array named movies, containing at least three movies, all have title, year, rate and characters properties
2. Log or print all the movies in the movies array, for example

|   | Elements | Console |
|---|----------|---------|
|   | top      | ▼       |
| -----   |          |         |
| Attack on titans  |          |         |
| Year: 2013  |          |         |
| Rate: 8.8   |          |         |
| Casts: Eren Armin Mikasa  |          |         |
| -----   |          |         |
| Mind hunter   |          |         |
| Year: 2017  |          |         |
| Rate: 8.6   |          |         |
| Casts: Holden Bill  |          |         |
| -----   |          |         |
| Manhunt: Unabomber  |          |         |
| Year: 2017  |          |         |
| Rate: 8.1   |          |         |
| Casts: Ted  |          |         |

