

Recap

JS objects & JSON

What is a JavaScript object?

- It's a representation of something
- It's an abstraction
- It's a logical grouping
- It's a data structure



JS object example

```
let car = {  
  make: "Citroen",  
  model: "Berlingo",  
  wheels: 4,  
  passengers: ["Jonas", "Gitte", "Storm", "Birk", "liv"]  
}
```



```
let passenger = "The third passenger is " + car.passengers[2];
```

Accessing object and arrays

- We often see arrays of objects, arrays in objects, objects in objects etc.

Remember:

- Objects/properties are accessed using `.` (dot)
- Arrays are accessed using `[]`

```
let passenger = "The third passenger is " + car.passengers[2];
```

JSON

- JSON is **text** with JavaScript **Object Notation**.
- JSON is a **syntax** for **storing and exchanging data**.
- When exchanging data between a **browser** and a **server**, the data can only be text.
- We can convert any **JS object** into **JSON**, and send JSON to the server.
- We can also convert any **JSON** received from a server into **JS objects**.


JSON Syntax Rules

- JSON = JavaScript object notation =
 - Data is in name/value pairs
 - Data is separated by commas
 - Curly braces hold objects
 - Square brackets hold arrays
- { "name": "value", "otherName": "value" }
- In JSON, names (keys) ***must*** be strings, written with double quotes (unlike JS objects)!

JSON Syntax Rules

- In JSON, values must be one of the following data types:
 - a string
 - a number
 - an object (JSON object)
 - an array
 - a boolean
 - null
- In JavaScript values can be all of the above, plus any other valid JavaScript expression, including:
 - a function
 - a date
 - undefined

JSON Syntax



```
[
  {
    "id": "10",
    "category": "starter",
    "name": "Russian Ringbread",
    "price": 29,
    "soldout": false,
    "discount": 50,
    "shortdescription": "Russisk ringbrød af Karapatisk mel",
    "vegetarian": true,
    "alcohol": 0,
    "image": "ringbroed-druer"
  },
  {
    "id": "12",
    "category": "starter",
    "name": "Cabanossi with beetrootcreme",
    "price": 49,
    "soldout": false
  }
]
```


Publish from GitHub

alan-engelhardt / temp

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GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at <https://alan-engelhardt.github.io/temp/>

Source

Your GitHub Pages site is currently being built from the master branch. [Learn more.](#)

master branch ▾

Save

Select source

✕

✓ master branch
Use the master branch for GitHub Pages.

master branch /docs folder
Use only the /docs folder for GitHub Pages.

None
Disable GitHub Pages.

Save

Scroll down...

JSON group exercise

1. Go to **IMDb**:
http://www.imdb.com/movies-in-theaters/?ref=nv_mv_inth_1
2. Make a **json** file with 3-4 movie “objects”
3. Make a HTML file where you **fetch** the movies from your json file and display them in a **grid**.
4. Hand in a link to your GitHub site in frontier.

New Movies In Theaters

In Theaters

Coming Soon

Showtimes »

Opening This Week - September 8



It (2017)

R 135 min - Drama | Horror

69 Metascore

A group of bullied kids band together when a monster, taking the appearance of a clown, begins hunting children.

Director: Andy Muschietti

Stars: Bill Skarsgård, Jaeden Lieberher, Finn Wolfhard, Sophia Lillis

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Home Again (2017)

PG-13 97 min - Comedy | Drama | Romance

38 Metascore

Life for a single mom in Los Angeles takes an unexpected turn when she allows three young guys to move in with her.

Director: Hallie Meyers-Shyer

Stars: Nat Wolff, Reese Witherspoon, Lake Bell, Michael Sheen

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Rememory (2017) - [Limited]

PG-13 111 min - Drama | Mystery | Sci-Fi

The widow of a wise professor stumbles upon one of his inventions that's able to record and play a person's memory.

Director: Mark Palansky

Stars: Peter Dinklage, Matt Ellis, Jordana Lergy, Martin Donovan