ARRAYS VS. SETS AND OBJECTS VS. MAPS

| ARRAYS | VS. | SETS | | OBJECTS | VS. | MAPS |

```
tasks = ['Code', 'Eat', 'Code'];
// ["Code", "Eat", "Code"]
```

```
tasks = new Set(['Code', 'Eat', 'Code']);
// {"Code", "Eat"}
```

```
task = {
  task: 'Code',
  date: 'today',
  repeat: true
};
```

```
task = new Map([
  ['task', 'Code'],
  ['date', 'today'],
  [false, 'Start coding!']
]);
```

ARRAYS

👉 Use when you need **ordered** list of values (might contain duplicates)

👉 Use when you need to **manipulate** data

SETS

👉 Use when you need to work with **unique** values

👉 Use when **high-performance** is *really* important

👉 Use to **remove duplicates** from arrays

OBJECTS

👉 More "traditional" key/value store ("abused" objects)

👉 Easier to write and access values with `.` and `[]`

👉 Use when you need to include **functions** (methods)

👉 Use when working with JSON (can convert to map)

MAPS

👉 Better performance

👉 Keys can have **any** data type

👉 Easy to iterate

👉 Easy to compute size

👉 Use when you simply need to map key to values

👉 Use when you need keys that are **not** strings