

Summary

Multidimensional array

- Array that contains other arrays
- Intuitive way to store 2D or 3D (or higher dimensional) data
- Treatment is similar to one-dimensional arrays!

Accessing elements

- **Example:** Element in Row 1, Column 0

```
let terrains = [  
  ['desert', 'desert', 'grass', 'grass'],  
  ['desert', 'grass', 'water', 'grass'],  
  ['grass', 'grass', 'water', 'water'],  
  ['grass', 'grass', 'grass', 'grass']  
];
```

Accessing elements

- **Example:** Element in Row 1, Column 0

Row 1

```
let terrains = [  
  ['desert', 'desert', 'grass', 'grass'],  
  ['desert', 'grass', 'water', 'grass'],  
  ['grass', 'grass', 'water', 'water'],  
  ['grass', 'grass', 'grass', 'grass']  
];  
  
// element located in row 1, column 0  
let el = terrains[1][0];
```

Row 1

Accessing elements

- **Example:** Element in Row 1, Column 0

```
let terrains = [  
  ['desert', 'desert', 'grass', 'grass'],  
  ['desert', 'grass', 'water', 'grass'],  
  ['grass', 'grass', 'water', 'water'],  
  ['grass', 'grass', 'grass', 'grass']  
];  
  
// element located in row 1, column 0  
let el = terrains[1][0];
```

Column 0

Column 0

Accessing elements

- **Example:** Element in Row 1, Column 0
- **Result:** "desert"

```
let terrains = [  
  ['desert', 'desert', 'grass', 'grass'],  
  ['desert', 'grass', 'water', 'grass'],  
  ['grass', 'grass', 'water', 'water'],  
  ['grass', 'grass', 'grass', 'grass']  
];  
  
// element located in row 1, column 0  
let el = terrains[1][0];
```

Row 1

Column 0