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# javascriptf1 Documentation

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The JavaScriptF1 Utils library provides snippet collection for everyday JavaScript development.



### 1.1 Dates

Date and time related utility functions.

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#### 1.1.1 today

Returns the actual date as a Date object. [Source](#)

**Syntax:**

```
today() : Date
```

**Parameters:** none

**Returns:** Date

**Example:**

```
import * as Dates from "./utils/Dates.js";  
  
let today = Dates.today();
```

#### 1.1.2 todayAsIsoString

```
let today = Dates.todayAsIsoString();
```

Returns today's date as string formatted in the ISO format: 2020-11-27. [Source](#)

**returns** String

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### 1.1.3 yesterday

```
let yesterday = Dates.yesterday();
```

Returns yesterday's date as a Date object. [Source](#)

**returns** Date

### 1.1.4 yesterdayAsIsoString

```
let yesterday = Dates.yesterdayAsIsoString();
```

Returns yesterday's date as a string formatted in ISO format. 2020-11-27. [Source](#)

**returns** string

### 1.1.5 tomorrow

```
let tomorrow = Dates.tomorrow();
```

Returns tomorrow's date as a Date object. [Source](#)

**returns** Date

### 1.1.6 tomorrowAsIsoString

```
let tomorrow = Dates.tomorrowAsIsoString();
```

Returns tomorrow's date as a string formatted in ISO format. 2020-11-27. [Source](#)

**returns** String

## 1.2 Fullscreen

JavaScript Fullscreen API examples

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### 1.2.1 Enter fullscreen mode

Switch browser to fullscreen mode. [Source](#)

**Example:**

```
document.documentElement.requestFullscreen();
```

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## 1.2.2 Exit from fullscreen mode

Exit from the fullscreen mode. [Source](#)

**Example:**

```
const exitBtn = document.getElementById('exit-btn');

exitBtn.addEventListener('click', ()=>{
  if (document.fullscreenElement) {
    document.exitFullscreen();
  }
});
```

---

## 1.2.3 Detect fullscreen mode

Detect if fullscreen mode is active. [Source](#)

**Example:**

```
window.addEventListener('resize', (evt) => {
  if (window.innerHeight == screen.height) {
    console.log('FULL SCREEN');
  } else {
    console.log('NORMAL SCREEN');
  }
});
```

---

## 1.2.4 Toggle fullscreen mode

Toggle fullscreen mode. [Source](#)

**Example:**

```
const toggleBtn = document.getElementById('toggle-btn');

toggleBtn.addEventListener('click', () => {
  if (!document.fullscreenElement) {
    document.documentElement.requestFullscreen();
  } else {
    if (document.exitFullscreen) {
      document.exitFullscreen();
    }
  }
});
```

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# 1.3 Randomization

JavaScript Randomization examples

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### 1.3.1 Random number in a range

Generate a random number in a range. [Source](#)

**Example:**

```
function getRandomNumber(min, max) {
  return Math.floor(Math.random() * (max - min + 1) + min);
}
```

---

### 1.3.2 Random number with fixed length

Generate a random number with fixed length. [Source](#)

**Example:**

```
function getRandomNumber(length) {
  const min = Math.pow(10, (length-1));
  const max = Math.pow(10, (length));
  return Math.floor(Math.random() * (max - min) + min);
}
```

---

### 1.3.3 Random string

Generate a random string. [Source](#)

**Example:**

```
function getRandomString(length) {
  const allowedCharacters =
  ↪ 'abcdefghijklmnopqrstuvwxyz0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ';
  const allowedCharacterLength = allowedCharacters.length;

  let result = '';

  for ( let i = 0; i < length; i++ ) {
    result += allowedCharacters.charAt(Math.floor(Math.random() *
  ↪ allowedCharacterLength));
  }

  return result;
}
```

---

### 1.3.4 Random UUID

Generate a random UUID. [Source](#)

**Example:**

```
function getUUID() {
  return ([1e7]+-1e3+-4e3+-8e3+-1e11).replace(/[018]/g, c =>
    (c ^ crypto.getRandomValues(new Uint8Array(1))[0] & 15 >> c / 4).
    toString(16)
  );
}
```

### 1.3.5 Random color

Generate a random color. [Source](#)

**Example:**

```
function getRandomColor() {
  const availableCharacters = '0123456789ABCDEF';
  const availableCharacterLength = availableCharacters.length;

  let color = '#';

  for (let i = 0; i < 6; i++) {
    color += availableCharacters[Math.floor(Math.random() *
    availableCharacterLength)];
  }

  return color;
}
```

### 1.3.6 Random date

Generate a random date. [Source](#)

**Example:**

```
function getRandomDate() {
  const maxDate = Date.now();
  const timestamp = Math.floor(Math.random() * maxDate);
  return new Date(timestamp);
}
```

### 1.3.7 Random date in a range

Generate a random date in a range. [Source](#)

**Example:**

```
function getRandomDate(startDate, endDate) {  
  const minValue = startDate.getTime();  
  const maxValue = endDate.getTime();  
  const timestamp = Math.floor(Math.random() * (maxValue - minValue +  
↵1) + minValue);  
  return new Date(timestamp);  
}
```