COURSEWARE

Professional Skills Agile Fundamentals Jira Git **Databases Introduction** Java Beginner Maven Testing (Foundation) Java Intermediate HTML **CSS** Javascript What is JavaScript Getting started with JS Variables Data types ASI 0 Strict mode Iteration Conditionals with Truthy / Falsey Objects, Arrays + JSON Structuring JS Code Destructuring Scope Functions, function expressions and arrow functions The ECMAScript 6 Specification OOP in JavaScript **Best Practices** Closures Callbacks and Promises Cookies Hoisting Prototypes **Query Parameters**

Higher Order Functions

Cookies

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Overview

Cookies let you store user information in web pages.

What are cookies

Cookies are data, stored in small text files, on our computers.

When a web server has sent a web page to a browser, the connection is shut down, and the server forgets everything about the user.

Cookies were invented to solve the problem of "how to remember information about the user":

- When a user visits a web page, his/her name can be stored in a cookie.
- Next time the user visits the page, the cookie "remembers" his/her name.
- However this information can only be stored if provided by the user websites can not gain access to information you didn't provide to them.

Name is just one example but cookies can store lots of information on a user such as address, email address, phone number

Tutorial

Cookies are saved in name-value pairs for instance:

```
username = "Donald Tramp";
```

Creating a cookie with JavaScript

JavaScript has the ability to **Create**, **Read** and **Delete** cookies with the document.cookie property

To create a cookie it can be done like so:

```
document.cookie = "username=Donald Tramp";
```

We can also add an expiry date in UTC (Coordinated Universal Time)

By default the cookie is deleted when the browser is closed.

```
document.cookie = "username=Donald Tramp; expires=Thu, 18 Dec 2013 12:00:00
UTC";
```

Finally we can also add a path parameter, which tells the browser which path the cookie belongs to.

By default the cookie belongs to the current page.

Web Storage DOM Manipulation Handling Events and Timed Events Asynchronous Programming HTTP-Requests **XMLHttpRequests** Fetch API **Spring Boot** Selenium Sonarqube Advanced Testing (Theory) Cucumber MongoDB **Express NodeJS** React **Express-Testing** Networking Security Cloud Fundamentals **AWS Foundations AWS Intermediate** Linux **DevOps** Jenkins Introduction Jenkins Pipeline

Markdown

IDE Cheatsheet

```
document.cookie = "username=Donald Tramp; expires=Thu, 18 Dec 2013 12:00:00 UTC;
path=/";
```

Reading a cookie with JavaScript

Reading cookies in JavaScript is really simple we can do this by:

```
let myCookie = document.cookie;
```

Change a cookie with JavaScript

A cookie can be chanaged the same it was as when we create it.

```
document.cookie = "username=Donald Tramp; expires=Thu, 18 Dec 2013 12:00:00 UTC;
path=/";
```

Deleting a cookie with JavaScript

- Deleting cookies in JavaScript is very simple, we dont have to specify a cookie value when we delete a cookie.
- We just the **expires parameter** to a passed date.

```
document.cookie = "username=; expires=Thu, 01 Jan 1970 00:00:00 UTC;
path=/;";
```

Function to set cookie

We first create a function that stores the name of the visitor in a cookie variable.

```
let setCookie = (nameOfCookie, cookievalue, exdays) => {
   let date = new Date();
   date.setTime(date.getTime() + (exdays*24*60*60*1000));
   let expires = "expires="+ d.toUTCString();
   document.cookie = nameOfCookie + "=" +"name:" + cookievalue + ";" + expires +
";path=/";
}

//We call it as so
setCookie("myYummyCookie", "Donald Tramp", "2");
```

To check the cookie has been created.

- Open chrome
- Navigate to the web-page where the JavaScript code is running.
- Open developer options (ctrl+shift+i).
- Navigate to Application
- Click the dropdown on cookies on the left hand side.
- Check for a cookie named "myYummyCookie"

Exercises

1. Create a function called makeCookie with a name myCookie and have the values username with your name and an email which has your email address stored, also include an expiry.

Expiry code:

```
let date = new Date();
date.setTime(date.getTime() + (exdays*24*60*60*1000));
```

► Solution