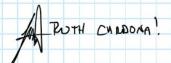
lunes, 24 de abril de 2023 13:12



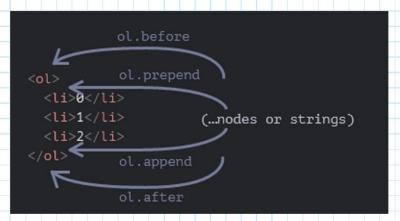
MODIFYING THE DOM

- . DOCUMENT CREATE FLEMENT (TAG); => CREATE A NEW Elemement
- . DOCUMENT. CREATE TEXT NODE (TEXT); > CERATE A NEW TEXT NODE

INSERTION METHODS:

Here are more insertion methods, they specify different places where to insert:

- node.append(...nodes or strings) append nodes or strings <u>at the end</u>
 of node,
- node.prepend(...nodes or strings) insert nodes or strings <u>at the</u> <u>beginning of node</u>,
- node.before(...nodes or strings) -- insert nodes or strings <u>before</u>
 node,
- node.after(...nodes or strings) -- insert nodes or strings.after node,
- node.replaceWith(...nodes or strings) -- replaces node with the given nodes or strings.



THIS METHODS CAN DIVIN BE USED TO INSERT DOM NODES OR TEXT PIECES (Element Text Content)

insertAdjacentHTML/Text/Element METHOD

- · ELEMENT . INSERT ADSACENTHIML (WHERE, HTML);
- · ELEMENT. INSERT ADJACENT HTML (WHERE, TEXT);
- · ELEMENT. INSERT ADJACENT HTML (WHERE, ELEM);

The first parameter is a code word, specifying where to insert relative to elem. Must be one of the following: "beforebegin" - insert html immediately before elem, "afterbegin" - insert html into elem, at the beginning, "beforeend" - insert html into elem, at the end, "afterend" - insert html immediately after elem. The second parameter is an HTML string, that is inserted "as HTML". beforebegin _ afterbegin 0 1 ol.insertAdjacentHTML(*, html) 2 beforeend afterend THIS METHOD IS USED TO INSELT HTML IN THE SAME MANNEL AS ELEM INDEPHTML DOES IT. NODE REMOVAL: NODE REMOVE() · All insertion METHODS AUTOMATICALLY REMOVE THE MODE FROM THE OLD PLACE . IF WE WART TO MOVE AN ELEMENT IS NOT NECESSARY REMOVE IT Clouing Nobes: · CLEM. CLONENODE (TRUE) > CREATE A CHONE OF THE EXEMENT AND ITS ATTLIBUTES AND SUBERCHENTS . CLEM. CLONENODE (FRISE) => CREATE A CLONE WITHOUT CHILD ELEMENTS DOWNENT FLAGMENT: SERVES AS A WLAPPER TO PASS AROUND A 11ST OF MODES

OLD METHODS:

- · PARENTELEM . APPEND CHILD (NODE) => APPEND A NODE AS THE LAST CHILD OF PARENTEM.
- · PARENTELEM. INSCRIBETORE (NODE, NEXT SINGING) => INSCRIS NODE BEFORE NEXTSIBILING INTO PARENTELEM.
- · PARENTELEM. REPLACE CHILD (NODE, OLD CHILD) => REPLACES OLD CHILD WITH WODE AMONG
 CHILDREN OF PALENTELEM.
- · PARENTELEM , REMOVECHILD (NODE) >> REMOVES NODE FROM PARENTEEM
- DOCUMENT. WRITE (HTML) => WRITES THE HTML INTO THE PAGE (DOM). ONLY WORKS
 WHEN PAGE IS LOADING

localStorage, sessionStorage

Allow TO SAVE KEY/VALUE PAIRS IN THE DROWSER

DATA SULVIVES A PAGE REFRESH OR FULL BROWSER RESTART



- Allow AT LEAST BMB OF DATA
- · EVERYTHING IS DONE WITH IS
- CAN'T ACCESS DATA FROM EACH OTHER)

Both storage objects provide the same methods and properties:

- setItem(key, value) store key/value pair.
- getItem(key) get the value by key.
- removeItem(key) remove the key with its value.
- clear() delete everything.
- key(index) get the key on a given position.
- length the number of stored items.

LOCAL STORAGE: - SHARED BETWEEN ALL TABS AND WINDOWS FROM THE SAME ORIGIN. - DATA DOES NOT EXPIRES. SURVIVES A BROWSER RESTART AND OS REBOOT ! . IS SHARED BETWEEN All windows with the same origin Ly IF WE SET DATA IN ONE WINDOW, THE CHANGE DECOME VISIBLE in Another one. · OBJECT-like ACCESS: => 100AISTORIGE. TEST = 2 (Not RECOMMENDED) . THE USE OF A PLAIN OBSECT WAY OF DETRING SETTING KEYS. . WIN FAIL WITH BUILD-IN METHODS OF LOCALSTONAGE OR EVENTS LOOPING OVER KETS: - STONAGE OBJECTS ALE NOT ITENABLE - OVER AN ARMAY: **D** 1 for(let i=0; i<localStorage.length; i++) {</pre> 2 let key = localStorage.key(i); alert(`\${key}: \${localStorage.getItem(key)}`); - O.VER KEYS: 2 for(let key in localStorage) { alert(key); // shows getItem, setItem and other built-in stuff

```
...So we need either to filter fields from the prototype with hasOwnProperty
       check:
                                                           D 0
          1 for(let key in localStorage) {
               if (!localStorage.hasOwnProperty(key)) {
                 continue; // skip keys like "setItem", "getItem" etc
               alert(`${key}: ${localStorage.getItem(key)}`);
       ...Or just get the "own" keys with Object.keys and then loop over them if
       needed:
          1 let keys = Object.keys(localStorage);
          2 for(let key of keys) {
               alert(`${key}: ${localStorage.getItem(key)}`);
       The latter works, because Object.keys only returns the keys that belong to the
       object, ignoring the prototype.
      STRINGS DALY (FOR BOTH STORAGES)
      - Key AND VAIUE MUST BE STRINGS
      - IF THERE IS ANOTHER TYPE OF DATA, THEY WOULD GET
       CONVENTED TO A STICING AUTOMATICALY
SESSION STORAGE: - EXIST ONLY WITHING THE CURRENT BHOWSER TAB
                           - Another TAB with THE SAME PAGE will HAVE
                             DIFFERENT STOWAGE
                           - It is shared Between if THE SAME TAB
                           _ DATA SURVIVES PADE REFRESH BUT NOT Closing/
                             OPENING THE TAB
                           - IT'S USED SPAKINGLY.
STORAGE EVENT
```

- THE EVENT TRIGGERS ON All WINDOW OBJECTS WHERE THE LOCALSTOMAGE IS AVAILABLE, EXCEPT THE ONE THAT CAUSED IT
- key the key that was changed (null if .clear() is called).
- oldValue the old value (null if the key is newly added).
- newValue the new value (null if the key is removed).
- url the url of the document where the update happened.
- storageArea either localStorage or sessionStorage object where the update happened.

Q: WHEN is common to use storage events? (Which situations)

Export and Import

- WE CAN PUT IMPORT/ EXPORT STATEMENTS AT THE TOP OR AT THE BOTTOM OF A SCRIPT

EXPORT:

- · Before declaration of a class/function/...:
 - export [default] class/function/variable ...
- Standalone export:
- Re-export:

 - export * from "module" (doesn't re-export default).
 - export {default [as y]} from "module" (re-export default).

EXPORT BEFORE DECIMENTION:

LIST OF EXPORTED DECLARATIONS:

. EXPORT LET ARRAY = [', ', ...] . EXPORT { VARIABLE 1, VARIABLE 2}

. EXPORT CONSTANT_VARIABLE = 21;

EXPORT CLASS USER { . . . }

. EXPORT { VARIABLE AS 1, ARRAY AS ARZ}

```
EXPORT DEFAULT:
                           Named export
                                                 Default export
   - THERE MAY BE ONLY ONE EXPORT DEFAUT PER FILE
   . IT CAN BE EXPORTED WITHOUT A VARIABLE NAME.
       · EXPORT DEFAUIT FUNCTION (X) {...} (NO NAME)
   _ FOR A DEFAULT EXPORT, WE ALWAYS CHOOSE THE NAME WHEN IMPORTING
   RE-EXPORT ... FROM .
        export {sayHi} from './say.js'; // re-export sayHi
        export {default as User} from './user.js'; // re-export defau
                          ARE NEEDED TO RE-EXPORT DEFAULT EXPORTS
     = TWO STATEMENT
       export * from './user.js'; // to re-export named exports
       export {default} from './user.js'; // to re-export the default export
    IMPORTS
                    Import:

    Importing named exports:

                      import {x [as y], ...} from "module"
                    · Importing the default export:

    import x from "module"

    import {default as x} from "module"

    Import all:

    import * as obj from "module"

    Import the module (its code runs), but do not assign any of its

                      exports to variables:

    import "module"

- WE PUT A list OF WHAT TO IMPORT IN CURLY BINGES
        import { . . . } From "MODULE";
- EXPLICIT lIST OF IMPORTS: 1) GIVES SHORTER NAMES
```

```
2) Gives BETTER OVERVIEW OF THE CODE
                               STEUCTURE
                           3) IT MAKES CODE SUPPORT AND REFORZORING
                               EASIGR.
IMPORT DEFAUIT:
  Imports are usually at the start of the fix
  - IMPORTS WITHOUT CURIY BRACES => IMPORT SOMETHING FROM MODULE ",
  Here's how to import the default export along with a named one:
     1 // main.js
      2 import {default as User, sayHi} from './user.js'
     4 new User('John');
  Imported vaciables should correspond to file vames
    1 import User from './user.js';
    2 import LoginForm from './loginForm.js';
    3 import func from '/path/to/func.js';
```