Ul in JavaScript

Bc. Martin Jurenka, 2013

About JS

- interpreted computer programming language
- part of web browsers
 - allow client-side scripts to interact with the user
 - control the browser
 - communicate asynchronously
 - alter displayed document content
- C syntax, Java naming convention
- design principles from Self, Scheme

About JS

- * 1995 as LiveScript, Netscape
- dynamic typing
- almost entirely object-based (associative arrays)
- run-time evaluation



JS use in web pages

- interaction with DOM (Document Object Model)
- enhancing user experience
- AJAX calls
- animations

JS Frameworks

- jQuery (jQueryUI)
- ExtJS
- YUI
- MooTools
- Prototype
- Dojo Toolkit



jQuery

- 65% of top 10k pages
- multitude of browsers supported
- fast and small
- reworked selectors from original JS

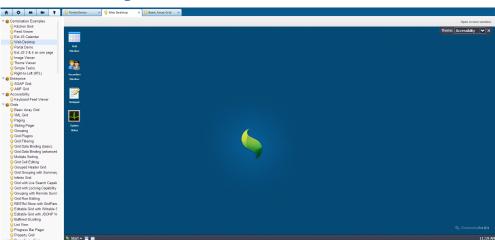
```
var fieldNameElement = document.getElementById( "field_name");
while (fieldNameElement.childNodes.length >= 1) {
    fieldNameElement.removeChild(fieldNameElement.firstChild);
}
fieldNameElement.appendChild(fieldNameElement.ownerDocument.createTextNode (fieldName));
$("div#field_name").text(fieldName);
```

lots of plugins



Ext JS

- Sencha Ext JS JavaScript Framework for Rich Desktop Apps
- business-grade web app development
- paid
- http://docs.sencha.com/extjs/4.2.1/#!
 - /example



YUI



- used and developed by YAHOO
- http://yuilibrary.com/yui/docs/app/app-todo.html

CSS3 in UI





- enhanced CSS, still in development
- Chromium has widest support
- many new features, notably rounded-border, text-shadow, :before and :after property
- more style options



jQuery UI

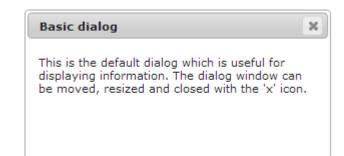


- set of UI interactions, effects, widgets and themes for jQuery
- draggable
- droppable
- resizable
- selectable
- sortable
- etc.

jQuery widgets

- datepicker
- tabs
- tooltip
- dialog
- autocomplete



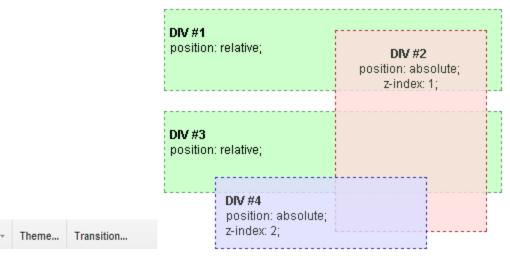


UI web elements

div span table button form image list - ol, ul

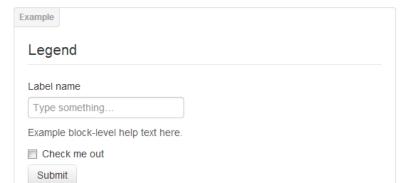
div, span

- most used elements in creating UI
- defines division or a section in HTML document
- groups elements to format them w/ CSS



form

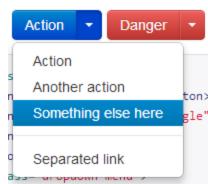
- basic user data input
- validation on server side
- extended with JS





button

- used for submitting and resetting forms
- JS allowed to bind actions
- now indicator of action user wants to perform
- JS allows creating new control style buttons







table

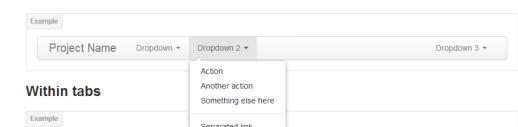
- used for displaying data in grid
- JS enhancement for regular table datatables (jQuery)
- add plugins (<u>jEditable</u>)
- instant data manipulation
- filter, etc.



lists



heavily used in UI menus, dropdowns



image

- special part in design
- background for buttons, divs, spans
- image maps
- http://www.kikk.be/2013/

Examples

- SiDigital
- Google docs
- Facebook
- Twitter live feed
- GNOME3

Questions

Any questions?

Thank you