

GMIN 309 - TAWeb

DIVERS ET RAPPELS

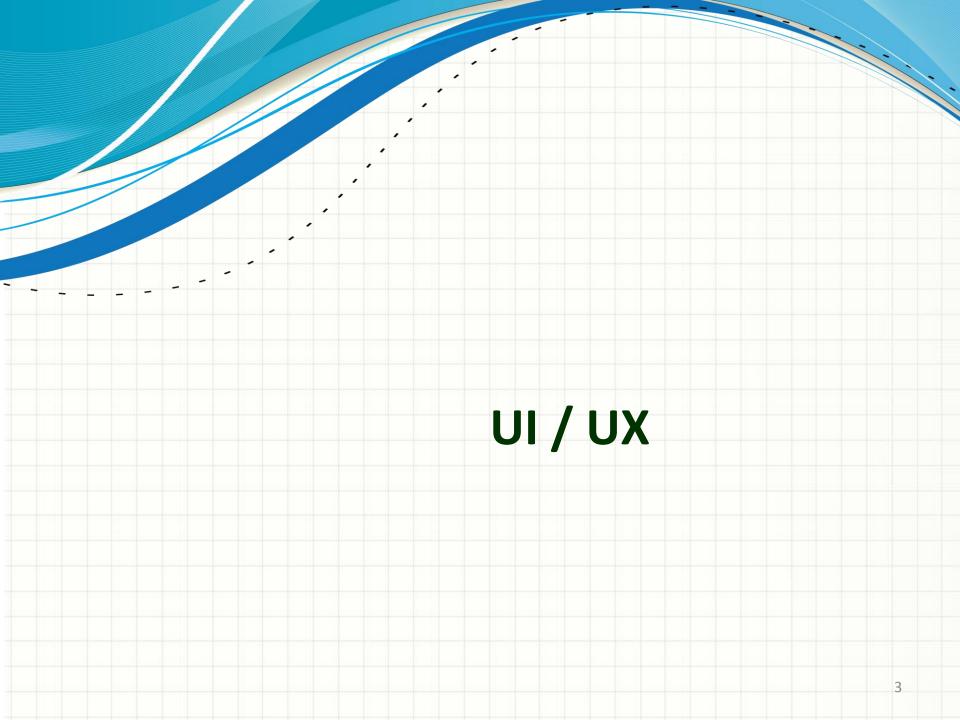
Bérenger ARNAUD berenger.arnaud@itkweb.com



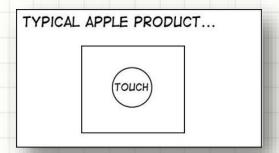
Sommaire (cours 7)

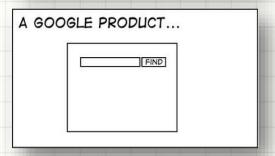
- UI /UX
 - scénarisation
 - internationalisation
 - éléments HTML 5
 - formulaires HTML 5
- développement
 - GIT
 - PAC
 - TDD
- Programmation
 - astuces JS
 - worker

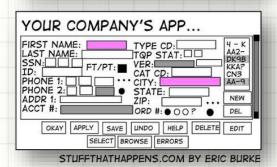
- promise
- factory
- prototypes
 - prototype
 - proxy
 - RMI
- Sécurité
 - mots de passe
 - attaques
 - SQL injection
 - code injection



Scénarisation







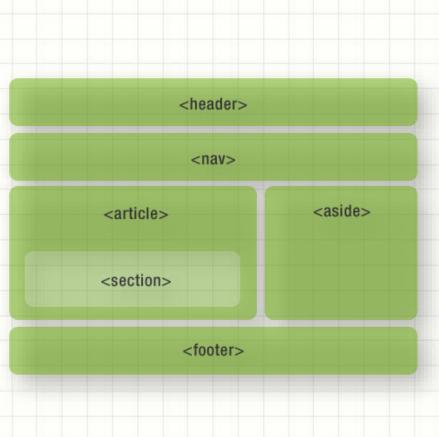
- scénariser de la navigation
 - guider, orienter
 - ne pas perdre
- règles
 - trop vs. assez
 - 7 éléments et variations
 - pas d'interruption

Internationalisation & localisation



- aka i18n & l10n
- non natif, libs JS
- fichiers ressources
 - textes
 - images
 - **–** ...

Éléments HTML 5



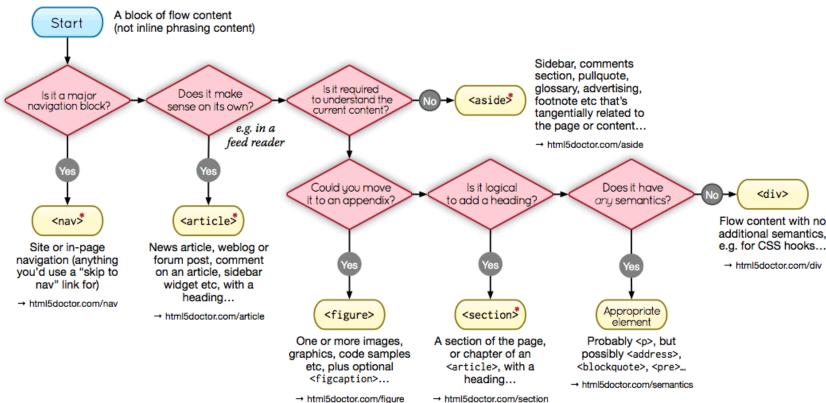
- article
- aside
- details
- figure
- footer
- header
- main
- nav

- progress
- section
- time
- [...]



Sectioning content elements and friends

By @riddle & @boblet www.html5doctor.com



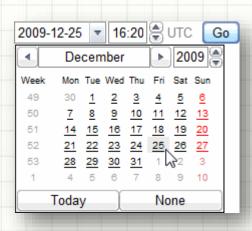
*Sectioning content element

These four elements (and their headings) are used bu HTML5's outlining algorithm to make the document's outline → html5doctor.com/outline

2011-07-22 v1.5 For more information:

www.html5doctor.com/semantics

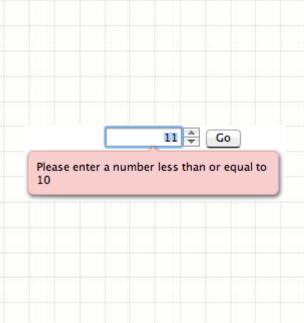
Formulaire HTML 5: types



- button
- checkbox
- color
- date
- datetime
- datetimelocal
- email
- month
- number
- password

- radio
- range
- search
- submit
- tel
- text
- time
- url
- week

Formulaire HTML 5: attributs

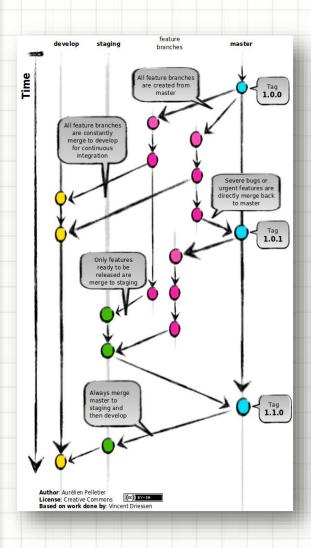


- autocomplete
- autofocus
- disabled
- form*
- list
- min and max
- maxlength
- multiple

- pattern
- placeholder
- readonly
- required
- size
- step
- value

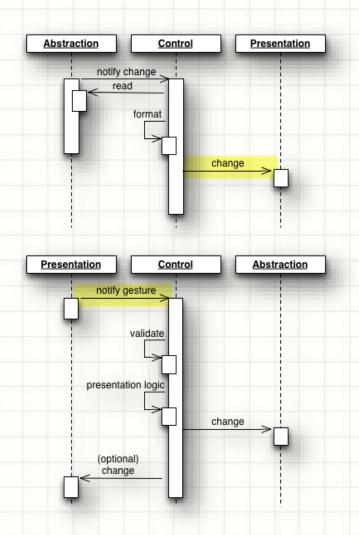
DÉVELOPPEMENT 10

GIT



- git clone
- git pull --rebase
- git branch "#001 fix things"
- git add [...]
- git commit "Thing 1 fixed"
- git checkout master
- git merge "#001 fix things«
- git push

Présentation, Abstraction, Contrôle



Présentation

- visualisation
- interactions utilisateurs

Abstraction

- données
- méthodes métiers

Contrôle

inter-actions

Test Driven Development

rouge

• créer les tests

refactor

• améliorer le code

vert

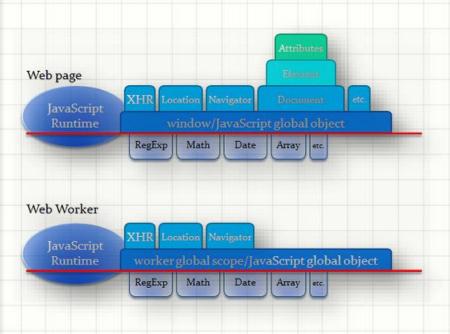
• écrire code

PROGRAMMATION 14

Astuces

```
var o = {}; var o = new Object();
var a = []; var a = new Array();
function() { } fonction anonyme
foo = function foo() { } fct nommée & référencée
```

Worker

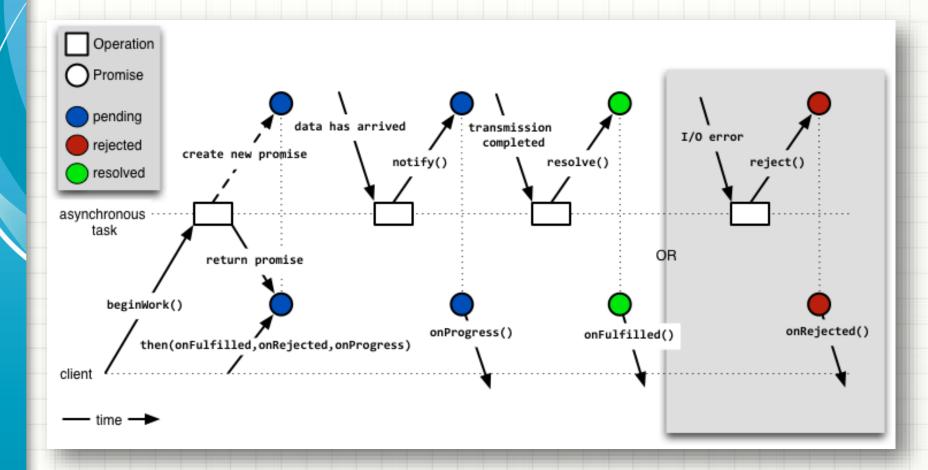


- w = new Worker(...)
- w.postMessage(...)

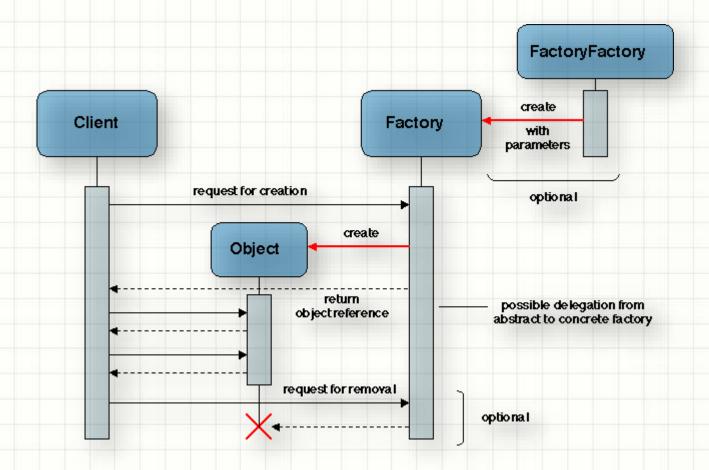
addEventListener('message', ...)

- w.terminate()
- close()

Promise

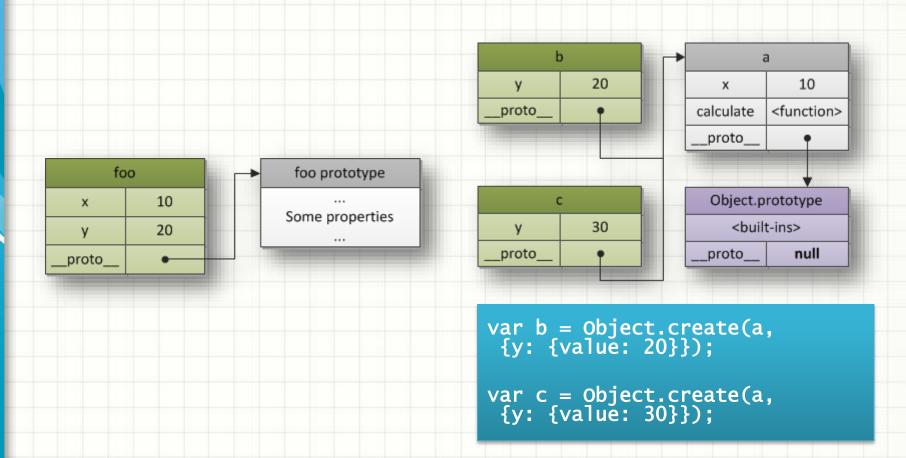


Factory



PROTOTYPE 19

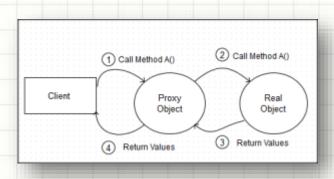
Prototype



Prototype

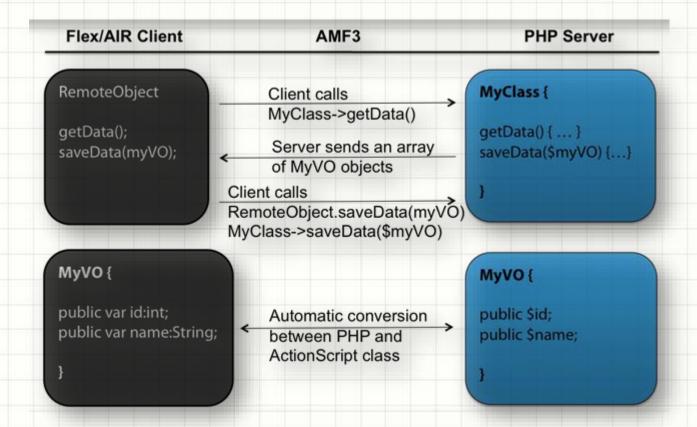
```
var A = \{\};
var B = (
    function() {
        var F = function () {};
        F.prototype = A;
        return new F();
    } ());
var B = Object.create(A);
A.compte = 0;
A.separ = ": ";
B.separ = ", ";
for (A.compte = 0; A.compte < 10; A.compte++) {</pre>
    document.write(B.compte + B.separ)
// 0, 1, 2, 3, 4, 5, 6, 7, 8, 9,
```

[class,funtion,attribute]Proxy



- property/function
 - has...()
 - set...()
 - get...()
 - delete...()
 - call...()
- external
 - read...()
 - write...()

Remote Method Invocation





Mots de passe

-	1.	123456	11. 123123	21. password1
2	2.	password	12. Admin	22. princess
3	3.	12345678	13. 1234567890	23. azerty
2	4.	qwerty	14. letmein	24. trustno1
[5.	abc123	15. photoshop	25. 000000
6	5 .	123456789	16. 1234	
-	7.	111111	17. monkey	
8	3.	1234567	18. shadow	
9	Э.	iloveyou	19. sunshine	
-	10.	adobe123	20. 12345	(20

(2013)

Attaques

- 1. Injection
- 2. Broken Authentication and Session Management
- 3. Cross-Site Scripting (XSS)
- 4. Insecure Direct Object References
- 5. Security Misconfiguration
- 6. Sensitive Data Exposure
- 7. Missing Function Level Access Control
- 8. Cross-Site Request Forgery (CSRF)
- 9. Using Components with Known Vulnerabilities
- 10. Unvalidated Redirects and Forwards

https://www.owasp.org/index.php/Top10

SQL injection

```
SQL Injection.

User-Id: srinivas

Password: mypassword

select * from Users where user_id= 'srinivas' and password = 'mypassword'

User-Id: OR 1= 1; /*

Password: */--

select * from Users where user_id= 'OR 1 = 1; /*' and password = '*/--'

9lessons.blogspot.com
```

- 'or '1'='1
- 'or '1'='1' --
- ' or '1'='1' ({
- 'or '1'='1' /*

a'; DROP TABLE users;
 SELECT * FROM
 userinfo WHERE 't' = 't

Code injection

- PHP
 - caractères spéciaux
 - interprétation code / fonctions
 - appel de code
- HTML
 - interprétation code
 - injection code
- JS
 - interprétation code

Social engineering



FINI! 30