

A close-up photograph of a woman with blonde hair, wearing round-rimmed glasses and a pink floral dress. She has her mouth wide open, showing her teeth, and appears to be shouting or singing. Her hands are clasped together near her chest. The background is dark and out of focus.

F*get the web**

 lanyrd.com

Full Frontal 2011

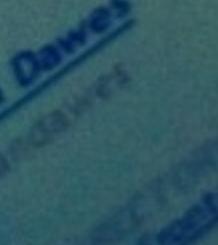
JavaScript conference

11 NOVEMBER
2011

<http://2011.full-frontal.org/>
Save to iCal / iPhone / Outlook / GCal

6 speakers


Glenn Jones
@glennjones

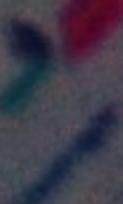

Brendan Dawes
@brendandawes


Jeremy Keith
@jeremykeith


Andrea Schubert
@andreaschubert


The Duke of York
@dukeofyork


David Walsh
@daltonw


John Resig
@jeresig

 lanyrd.com

the social conference directory

Full Frontal 2011

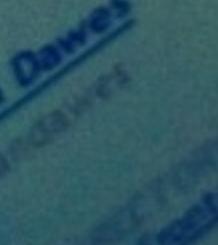
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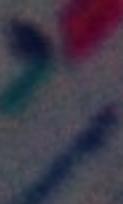

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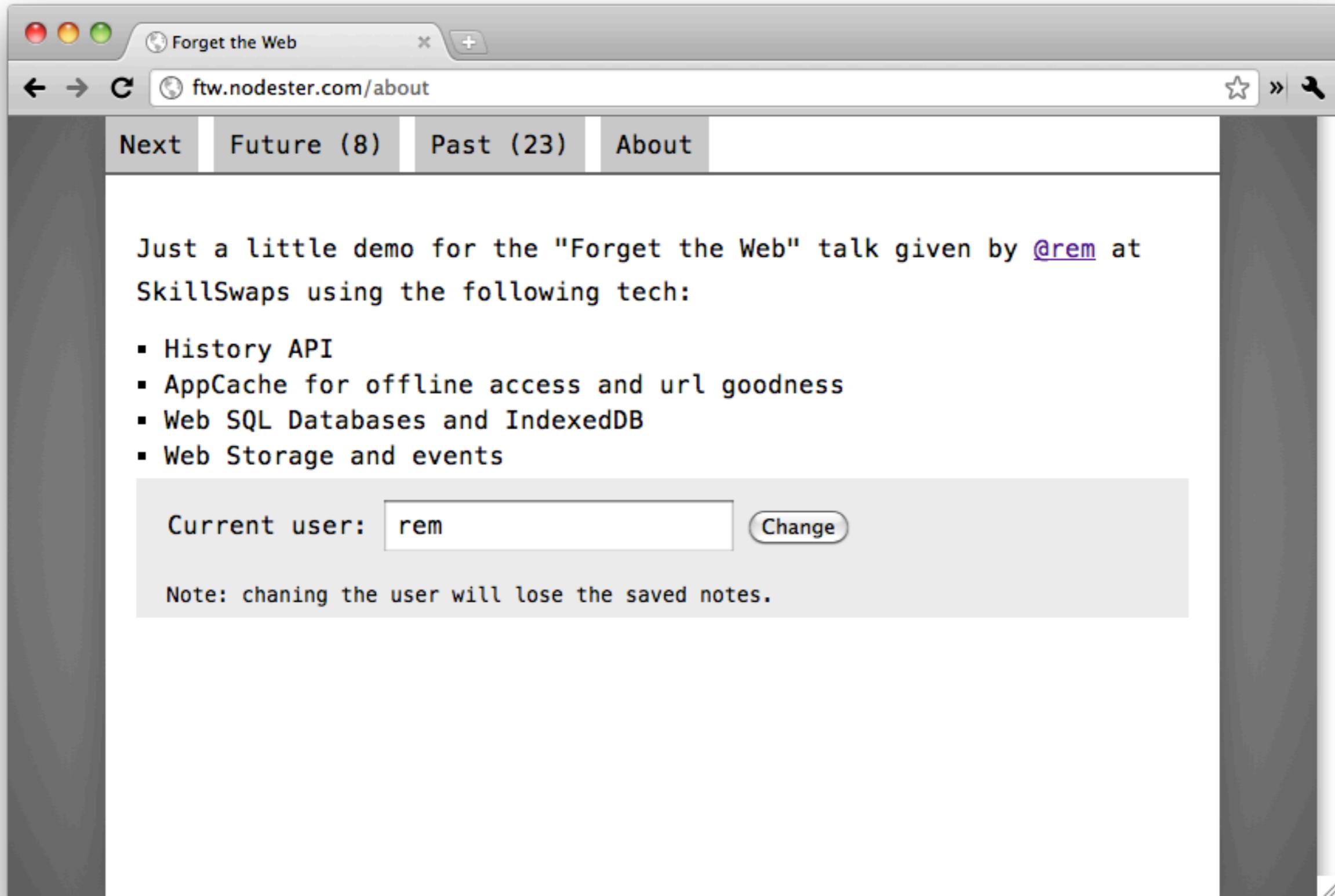

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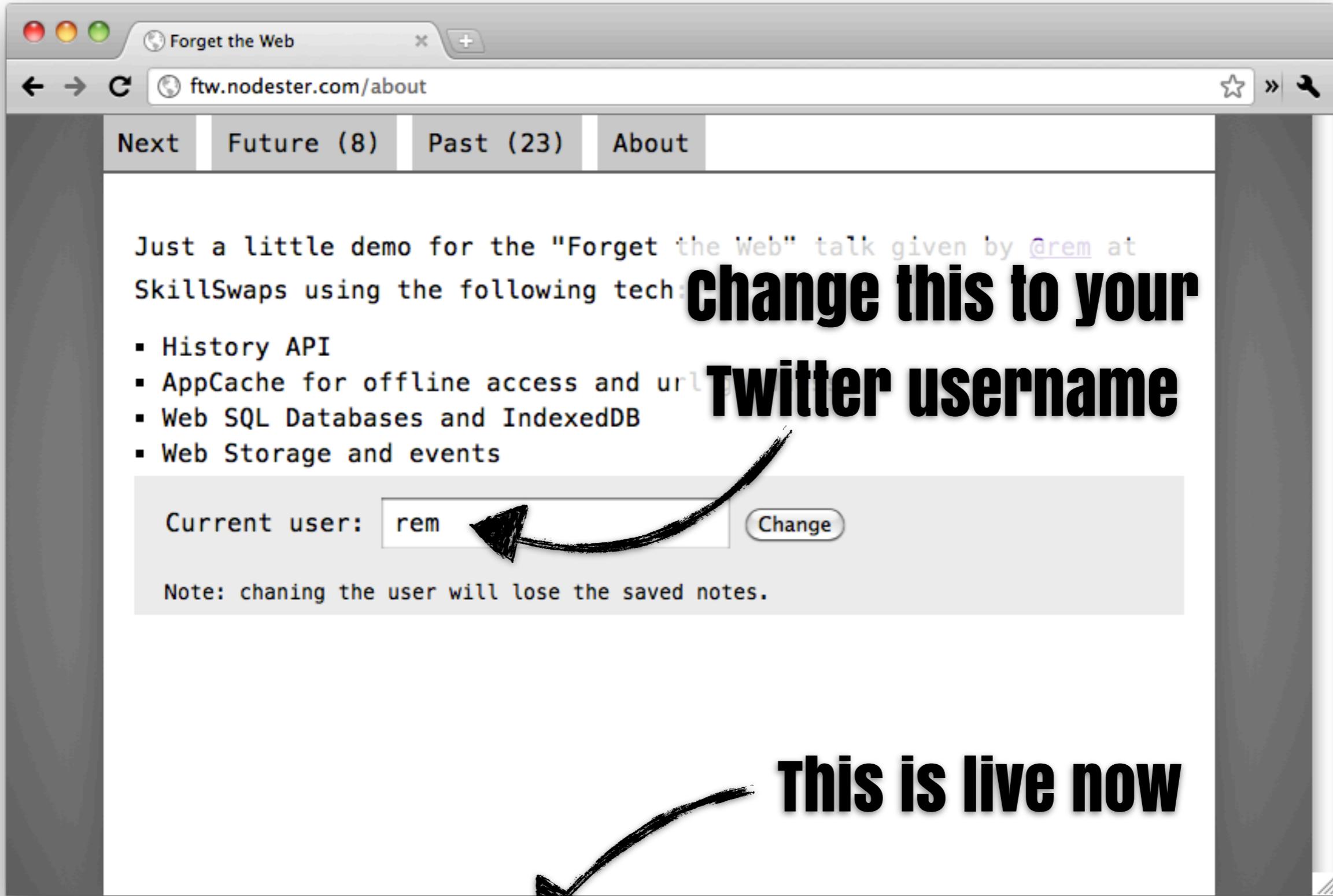




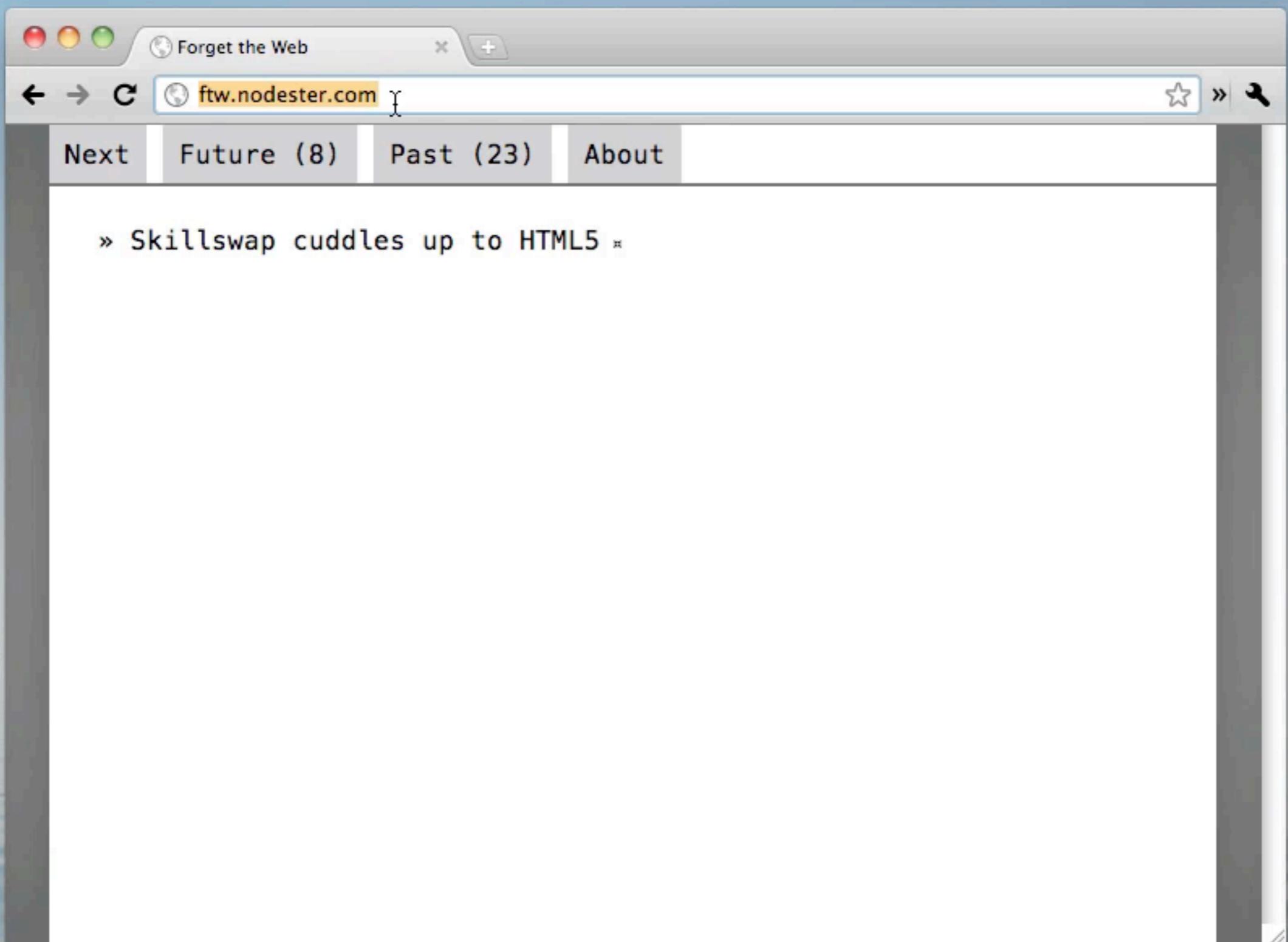
<http://flic.kr/p/a25FHi>



<http://ftw.nodester.com>



http://ftw.nodester.com



http://ftw.nodester.com



<http://flic.kr/p/5rTP9f>

- web storage
- IndexedDB (where available)
- web SQL Databases
- History API
- offline manifest

- **Web storage simple, and well supported IE8+**
- **Web SQL has good mobile support, but no Firefox**
- **IndexedDB gives us coverage**

A close-up photograph of a stack of chocolate chip cookies. The cookies are golden brown with visible dark chocolate chips. They are stacked in a somewhat haphazard pile, with some cookies partially overlapping others. The lighting highlights the texture of the cookie dough and the melted chocolate.

web storage

**COOKIES
SUCK.**

not the edible kind, duh!

COOKIES

SUCK.

- 1. code for cookies difficult**
- 2. Date format is fugly**
- 3. Limitations in size and number**
- 4. Deleting doesn't really delete**
- 5. sessions leak...but not always!**



Fuck cookies.

A row of six vintage-style SMEG refrigerators in various colors: red, orange, yellow, pink, light blue, and light green. The brand name 'SMEG' is printed in a small font on the upper left corner of each door.

Sexy Storage FTW

S M E G

S M E G

S M E G

- **localStorage** no expiry required & persists
- **sessionStorage** doesn't leak
- Applied to document origin, i.e. scheme/host/port tuple
- Insanely simple API

setItem(key, value)

removeItem(key)

length

key(index)

clear()

```
var store = localStorage;  
store.name = 'remy';
```

```
var store = localStorage;  
store.name = 'remy';  
delete store.name;
```

values are coerced
in to strings

**values are coerced
in to strings**

**work around: JSON
(and <http://www.json.org/json2.js>)**

Forget the Web

http://ftw.nodester.com/about

Next Future (8) Past (23) About

Just a little demo for the "Forget the Web" talk given by [@rem](#) at SkillSwaps using the following tech:

- History API
- AppCache for offline access and url goodness
- Web SQL Databases and IndexedDB
- Web Storage and events

Current user: rem [Change](#)

Note: changing the user will lose the saved notes.

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Just a little demo for the "Forget the Web" talk given by [@rem](#) at SkillSwaps using the following tech:

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- Web Storage and events

Current user: rem [Change](#)

Note: changing the user will lose the saved notes.

Events TOO

Gotcha

**The API isn't protected, you can, if
you want to mess things up, do:**

```
localStorage.key = 'foo';
```

Now the key method is a string :(

Web SQL Databases



- **SQLite based**
- **No longer actively maintained**
- **Good Safari support - i.e. iOS**
- **Fully featured debuggers available**

```
db = openDatabase('Notes', '1.0', 'notes', 5242880);

db.transaction(function(tx) {
  tx.executeSql('CREATE TABLE IF NOT EXISTS ' +
    'notes(id TEXT PRIMARY KEY ASC, title TEXT, ' +
    'rating INTEGER, date DATE, notes TEXT, ' +
    'updated DATE, url TEXT UNIQUE)', [
      [], // fields
      success, error
    ]);
});
```

```
db = openDatabase('Notes', '1.0', 'notes', 5242880);

db.transaction(function(tx) {
  tx.executeSql('CREATE TABLE IF NOT EXISTS `notes`(`id` TEXT PRIMARY KEY ASC, `title` TEXT, `rating` INTEGER, `date` DATE, `notes` TEXT, `updated` DATE, `url` TEXT UNIQUE)', [], // fields
    success, error);
});
```

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    'updated DATE, url TEXT UNIQUE)' ,
    [], // fields
    success, error);
});
```

**Field values map to
'?' values in the SQL**

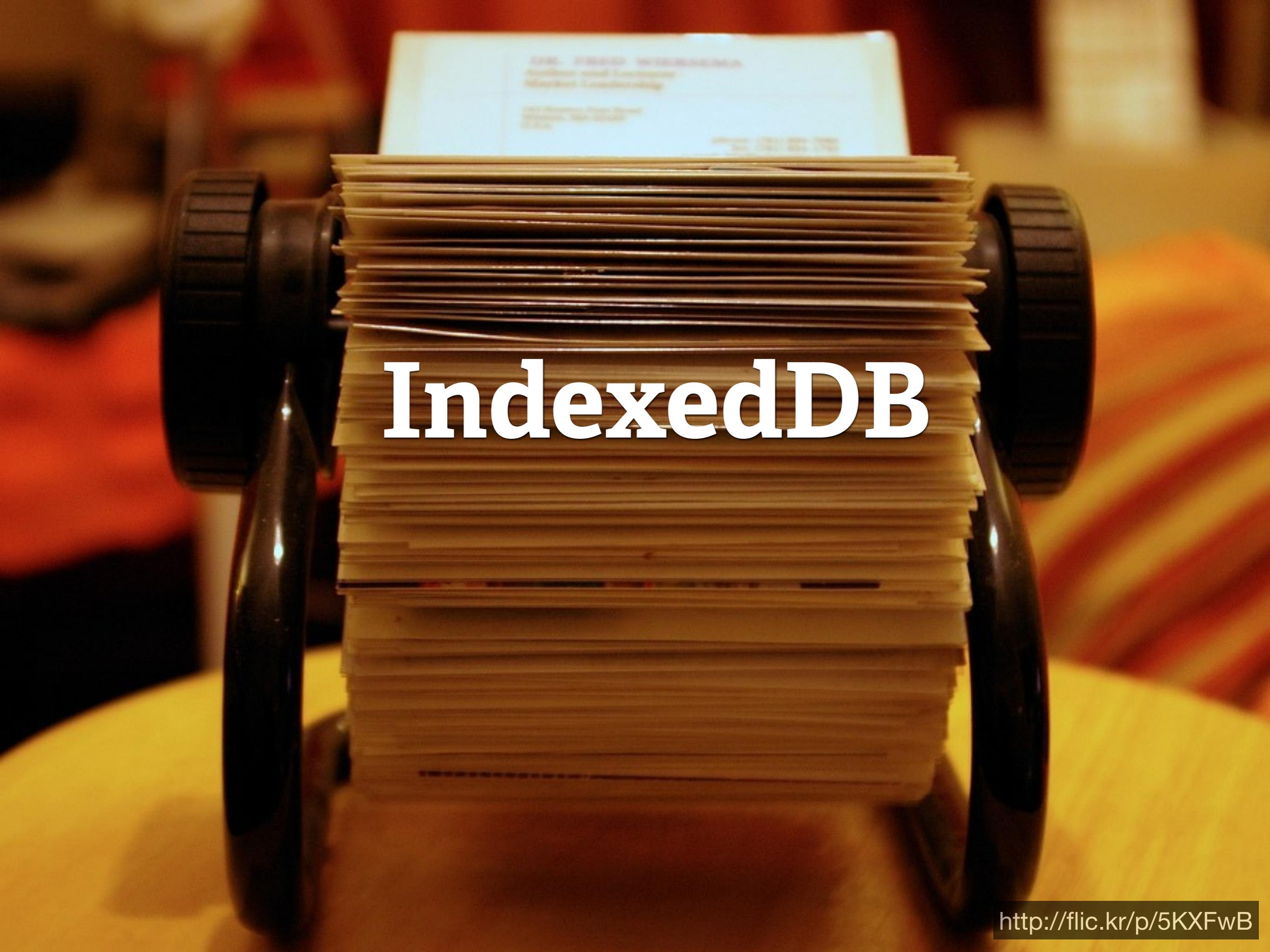
```
db = openDatabase('Notes', '1.0', 'notes', 5242880);

db.transaction(function(tx) {
  tx.executeSql('CREATE TABLE IF NOT EXISTS ' +
    'notes(id TEXT PRIMARY KEY ASC, title TEXT, ' +
    'rating INTEGER, date DATE, notes TEXT, ' +
    'updated DATE, url TEXT UNIQUE)',

    [], // fields
    success, error);
});

});
```

- **Atomic transactions**
- **Queues every request**
- **Good safari support - i.e. ios**
- **Fully featured debuggers available**

A photograph of a wooden frame holding a stack of index cards. The cards are white with some blue and red text and numbers. The frame has four black knobs, one on each corner. The background is a warm, out-of-focus orange and yellow.

IndexedDB

- Still very new
- Support will be further reaching than web SQL (but unsure about Safari)
- Very, very difficult to debug atm.

```
var request = indexedDB.open('notes');

request.onerror = fail;

request.onsuccess = function (e) {

  db = e.target.result;

};

};
```

Very, very object event based.

```
var setVRequest = db.setVersion(v);  
setVRequest.onsuccess = function () {  
    var store = db.createObjectStore(  
        'notes', {keyPath: 'id'});  
    success(); // your callback  
};
```

Now create the actual data store

```
var RW = IDBTransaction.READ_WRITE;  
  
var transaction = db.transaction(['notes'], RW, 0),  
store = transaction.objectStore('notes'),  
request = store.put(data);
```

Get the object store and put in it

```
var RW = IDBTransaction.READ_WRITE;  
  
var transaction = db.transaction(['notes'], RW, 0),  
    store = transaction.objectStore('notes'),  
    request = store.get(id);  
  
request.onsuccess = function (event) {  
    callback(event.target.result);  
};
```

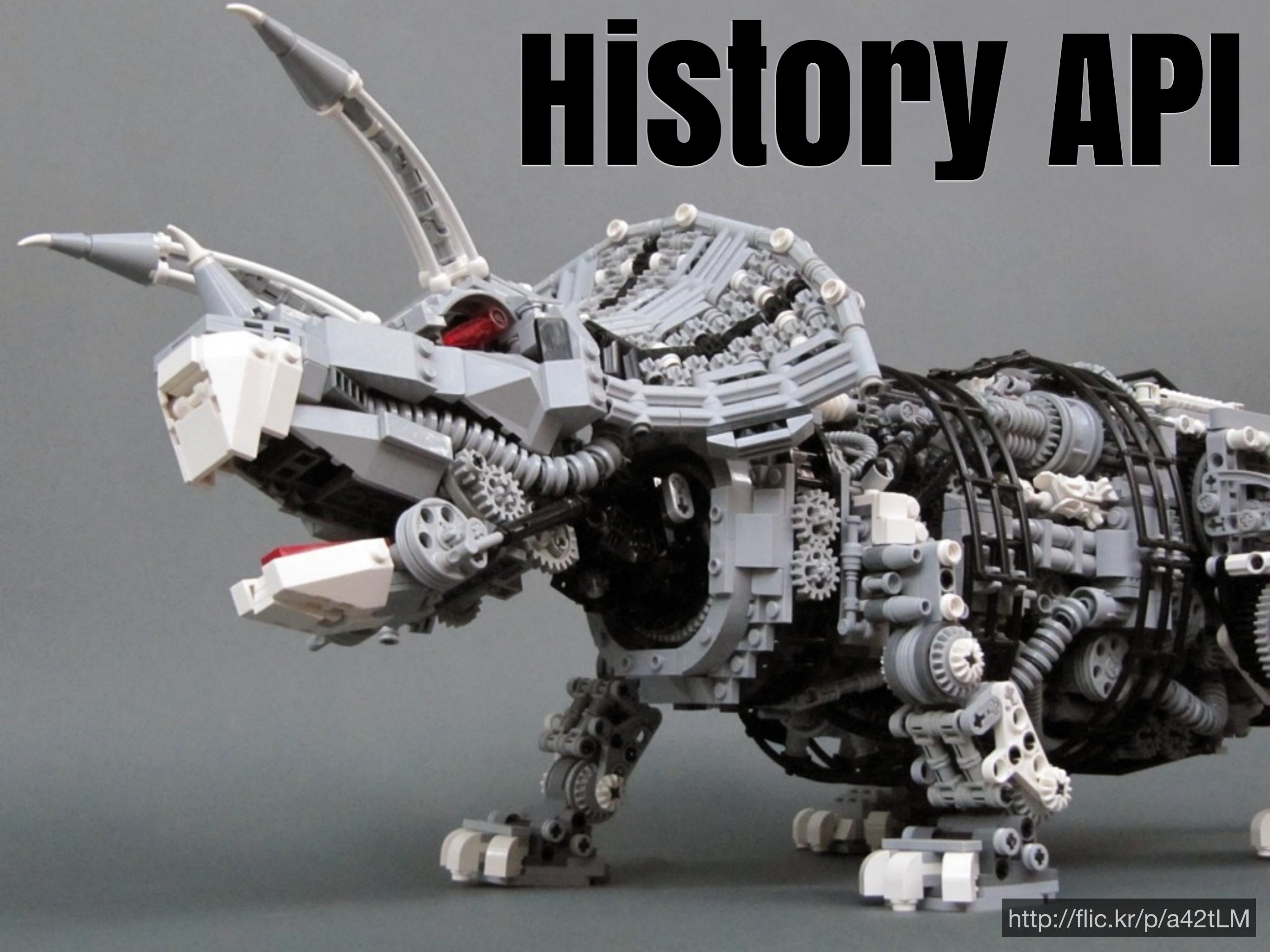
on success, result is in event.target

Lawnchair

<http://westcoastlogic.com/lawnchair/>



History API



<http://flic.kr/p/a42tLM>



Next

Future

Skills

Forget the Web

ftw.nodester.com/conf/2011/skillswap-cuddles

ext

Future (6)

Past (23)

About

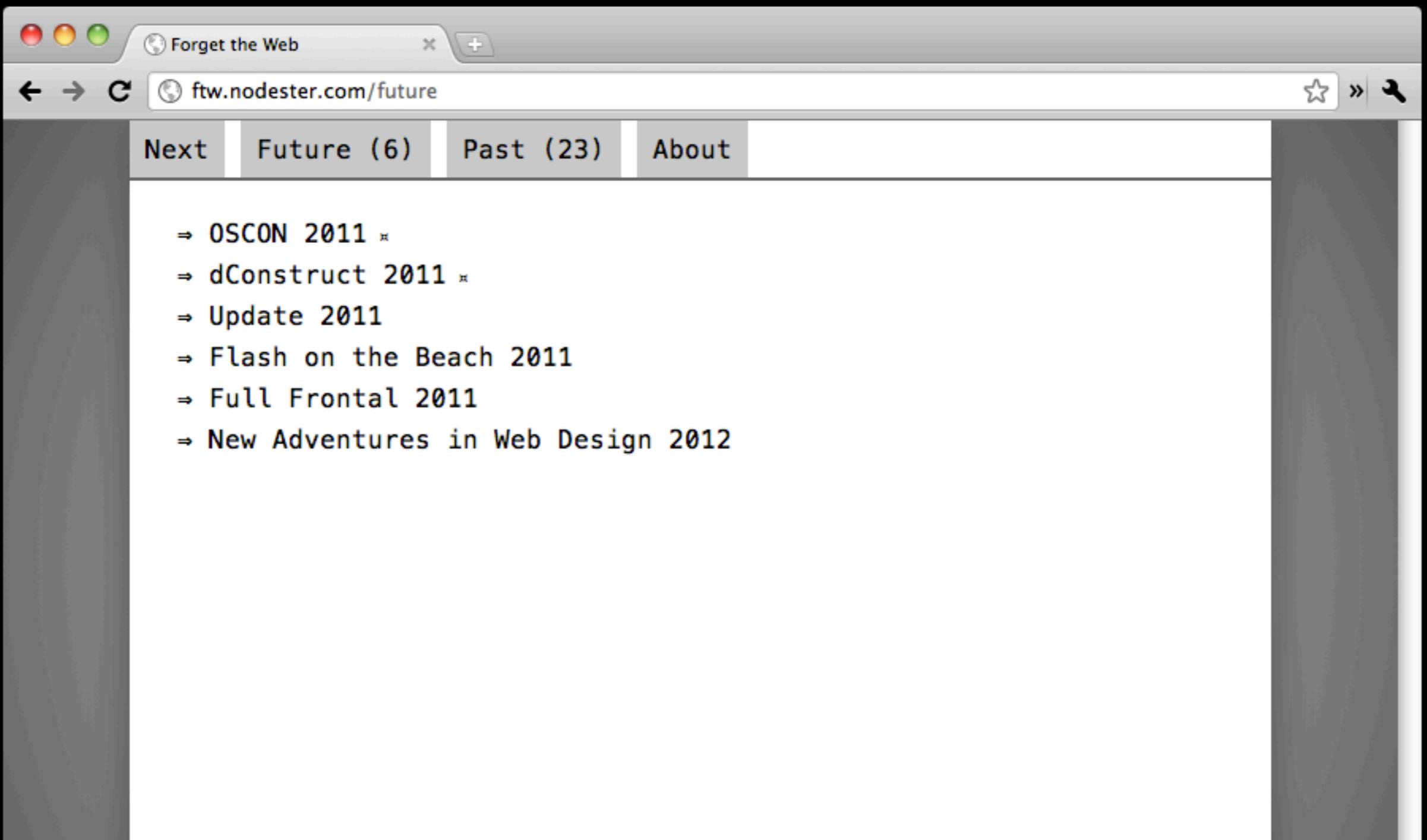
Skillswap cuddles u

20 Jul

```
function router(path) {  
  if (path.indexOf('/conf') === 0) {  
    showConferenceDetails(path.substr(5));  
  } else if (path === '/about') {  
    body.id = '';  
    body.className = 'about';  
  } else if (path === '/') {  
    showConferences('next');  
  } else {  
    showConferences(path.substr(1));  
  }  
}
```

```
function router(path) {  
    if (path.indexOf('/conf') === 0) {  
        showConferenceDetails(path.substr(5));  
    } else if (path === '/about') {  
        body.id = '';  
        body.className = 'about';  
    } else if (path === '/') {  
        showConferences('next');  
    } else {  
        showConferences(path.substr(1));  
    }  
}
```

router(location.pathname);



History API

```
history.pushState(state,title,url);
```

```
window.onpopstate = fn;
```

```
link.onclick = function (event) {  
    event.preventDefault();  
    showConferenceDetails(this.path);  
    history.pushState(' ', ' ', this.path);  
};
```

```
link.onclick = function (event) {  
    event.preventDefault();  
    showConferenceDetails(this.path);  
    history.pushState(' ', ' ', this.path);  
};
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    history.pushState(' ', ' ', this.path);  
};
```

```
link.onclick = function (event) {  
    event.preventDefault();  
    showConferenceDetails(this.path);  
    history.pushState(' ', ' ', this.path);  
};
```

Now our url matches the page

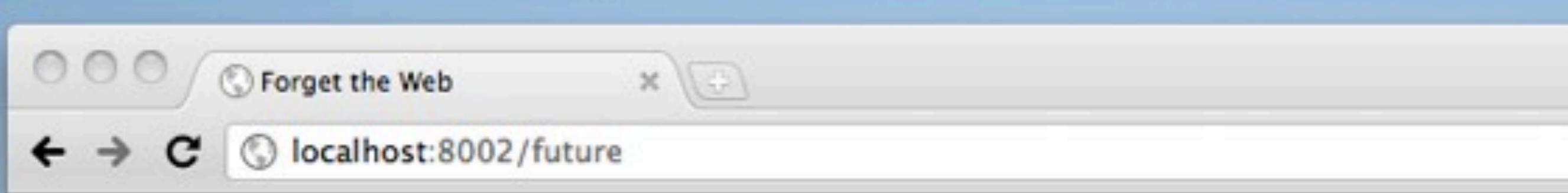
```
window.onpopstate = function () {  
  router(location.pathname);  
};
```

URLS FTW!



<http://flic.kr/p/a42tLM>

what about when they request a URL that doesn't exist???



The file future was not found.

```
1. remy@leftlogic:~/WWW/fullfrontal.org/2010 (node)
remy@remys-mbp ftw $ servedir 8002
Serving . on port 8002...
127.0.0.1 [Wed, 20 Jul 2011 14:37:45 GMT] "GET /future HTTP/1.1"
127.0.0.1 [Wed, 20 Jul 2011 14:37:45 GMT] "GET /favicon.ico"
```

**DROP
BOX**

offline



```
<html manifest="myapp.appcache">
```

```
<html manifest="myapp.appcache">
```

serve with text/manifest

```
<html manifest="myapp.appcache">
```

serve with text/manifest

set header cache-control: no-cache

```
<html manifest="myapp.appcache">
```

serve with text/manifest

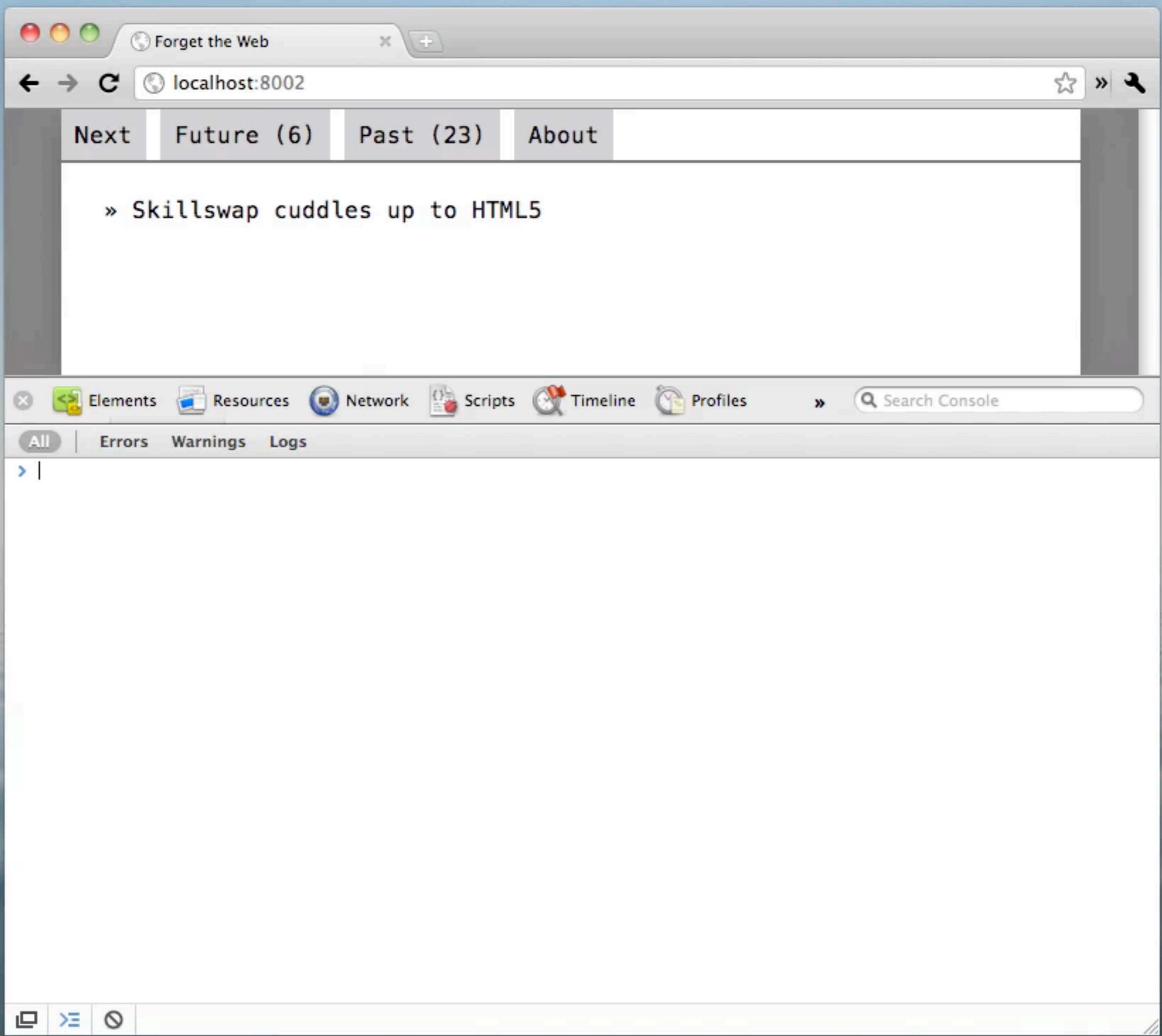
set header cache-control: no-cache

starts with CACHE MANIFEST

CACHE MANIFEST

/

**range.js
datastore.js**



chrome://appcache-internals

The screenshot shows the 'AppCache Internals' page in the Chrome developer tools. It lists three AppCache entries:

- Manifest: <http://ftw.nodester.com/ftw.appcache>**
Remove this AppCache
 - Size: 46.5 kB
 - Creation Time: Wednesday, July 20, 2011 4:08:38 PM
 - Last Access Time: Wednesday, July 20, 2011 4:08:38 PM
 - Last Update Time: Wednesday, July 20, 2011 4:08:38 PM
- Manifest: <http://jsconsole.com/jsconsole.appcache>**
Remove this AppCache
 - Size: 74.9 kB
 - Creation Time: Sunday, July 17, 2011 10:44:51 AM
 - Last Access Time: Wednesday, July 20, 2011 12:44:57 PM
 - Last Update Time: Wednesday, July 20, 2011 12:33:45 PM
- Manifest: <https://www.me.com/mail/app.manifest>**
Remove this AppCache
 - Size: 4.2 MB
 - Creation Time: Monday, July 18, 2011 4:37:59 PM
 - Last Access Time: Monday, July 18, 2011 4:43:53 PM
 - Last Update Time: Monday, July 18, 2011 4:37:59 PM

CACHE MANIFEST

/
index.html
range.js
datastore.js

FALLBACK:

force everything through
the index url
//

this won't match
anything unless it's on
another domain

NETWORK:

*

v4

served from cache

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

```
# force everything through  
# the index url  
//
```

```
# this won't match  
# anything unless it's on  
# another domain
```

NETWORK:

```
*
```

```
# v4
```

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

```
# force everything through  
# the index url  
//
```

```
# this won't match  
# anything unless it's on  
# another domain
```

NETWORK:

```
*
```

```
# v4
```

Requests for files not found in the cache, are directed to / i.e. index.html (when offline).

**Any requests to urls
that don't match / -
i.e. on another
domain, will be
served through the
web.**

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

```
# force everything through  
# the index url  
/ /
```

```
# this won't match  
# anything unless it's on  
# another domain
```

NETWORK:

```
*
```

```
# v4
```

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

```
# force everything through  
# the index url  
//
```

```
# this won't match  
# anything unless it's on  
# another domain  
NETWORK:
```

```
*
```

```
# v4
```

Also ensures
browser even
attempts to load the
asset

The contents of the
manifest must
change to trigger an
update

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

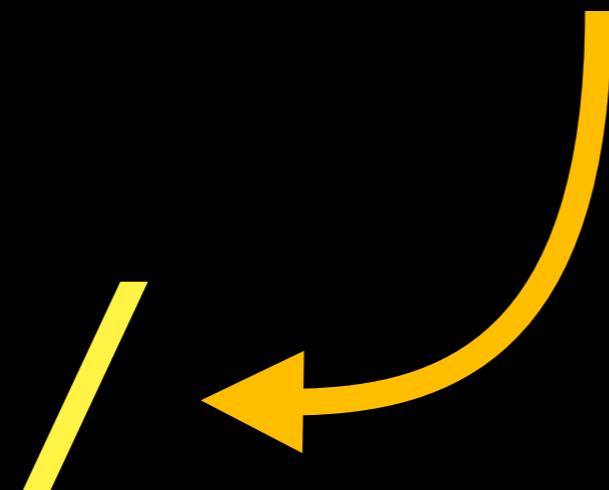
```
# force everything through  
# the index url  
/ /
```

```
# this won't match  
# anything unless it's on  
# another domain  
NETWORK:
```

```
*
```

```
# v4
```

/future



**And let the router code
handle the path**

CACHE MANIFEST

```
/  
index.html  
range.js  
datastore.js
```

FALLBACK:

```
# force everything through  
# the index url  
//
```

```
# this won't match  
# anything unless it's on  
# another domain
```

NETWORK:

```
*
```

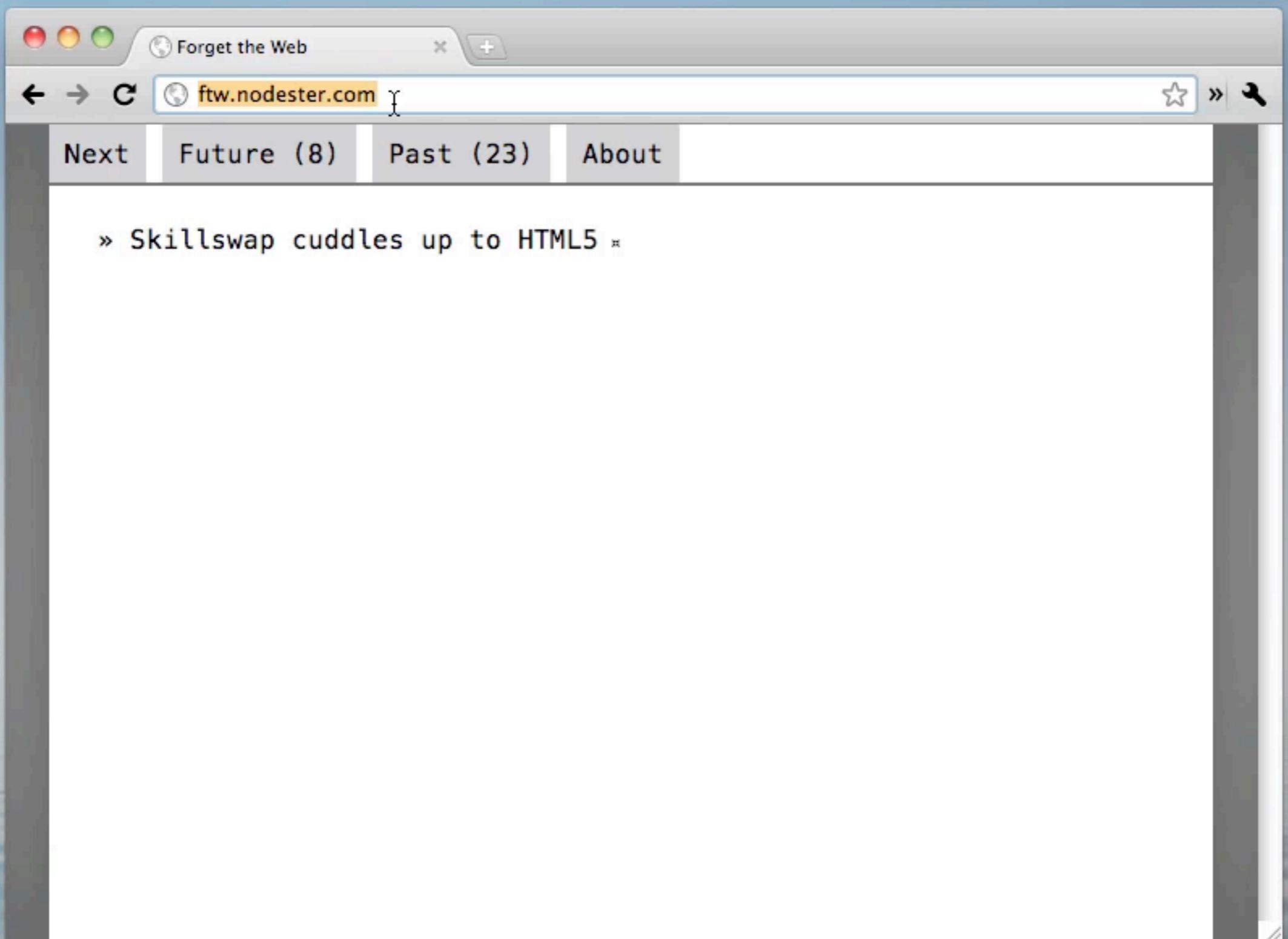
```
# v4
```

Requests for files not found in the cache, are directed to / i.e. index.html (when offline).



<http://flic.kr/p/5rTP9f>

- Web storage for simple data
- Larger data in IndexedDB & Web SQL
- History for back button and url
- offline to support our fake urls



http://ftw.nodester.com



Thank you.