

PhoneGap

99 slides of NIWEA

Install PhoneGap

- <http://imgtfy.com/?q=install+phonegap>
- There are more important things to discuss

NIWEA

HTML, JavaScript and CSS

NIWEA

HTML, JavaScript and CSS

JavaScript

Double-click to edit

JavaScript

Double-click to edit
It's all about events ;)

JavaScript

ES3 and ES5

JavaScript is a programming language.

JavaScript is a functional programming language.

JavaScript is a functional and **object oriented** programming language.

JavaScript is a functional and object oriented programming language based on Self.

JavaScript is a functional and object oriented programming language based on Self and Scheme.

**JavaScript is a functional
and object oriented
programming language
based on Self and
Scheme that was written
in 10 days at Netscape.**

JavaScript is a functional
and object oriented
programming language based
on Self and Scheme that
was written in 10 days at
Netscape and it's provably
the most innovative
language of the decade...

So, how to learn it?

Not by doing!

Seriously...

YAHOO!

CROCKFORD ON JAVASCRIPT

DOUGLAS CROCKFORD, JAVASCRIPT ARCHITECT, YAHOO! INC.

MONDAY JANUARY 25 HISTORY OF JAVASCRIPT
FRIDAY FEBRUARY 5 SURVEY OF THE JAVASCRIPT LANGUAGE
WEDNESDAY FEBRUARY 17 FUNCTIONS AND INHERITANCE IN JAVASCRIPT
WEDNESDAY MARCH 3 JAVASCRIPT AND THE DOM
WEDNESDAY MARCH 31 STYLE AND PERFORMANCE IN JAVASCRIPT

<http://yuiblog.com/crockford/>

What about PhoneGap?

Patience

JSLint

<http://jshint.com/>

- Global Variables
- Semicolon
- Scope
- Required Blocks
- Expression Statements
- ...

JSLint Stinks

<http://jshint.com/>

- Indenting
- i++
- for ... in
- ...

[http://lmgify.com/?q=jslint+<xsl:variable select="/user/editor"/>](http://lmgify.com/?q=jslint+<xsl:variable select=)

What about PhoneGap?

One more thing...

JSON

```
{  
  'user': {  
    "is_logged_in": "false",  
    "favorites": "12",  
  }  
}
```

```
{
```

```
  'user': {  
    "is_logged_in": "false",  
    "favorites": "12",  
  }
```

```
}
```

```
{  
  "user": {  
    "is_logged_in": "false",  
    "favorites": "12"  
  }  
}
```

```
{  
  "user": {  
    "is_logged_in": false,  
    "favorites": 12  
  }  
}
```

never ever ever never
ever never! really!
never ever string
concatenate json.
never. ok?

```
<?php
echo json_encode(
    array(
        'user' => array(
            'is_logged_in' => false,
            'favorite' => 12
        )
    )
);
```


What about PhoneGap?

JS Libraries?

XUI

A simple javascript framework for building mobile web applications.

XUI Stinks

A simple javascript framework for building mobile web applications.

jQuery

The Write Less, Do More, JavaScript Library

jQuery smells like roses.

The Write Less, Do More, JavaScript Library

jQuery.address()

Deep linking for the masses

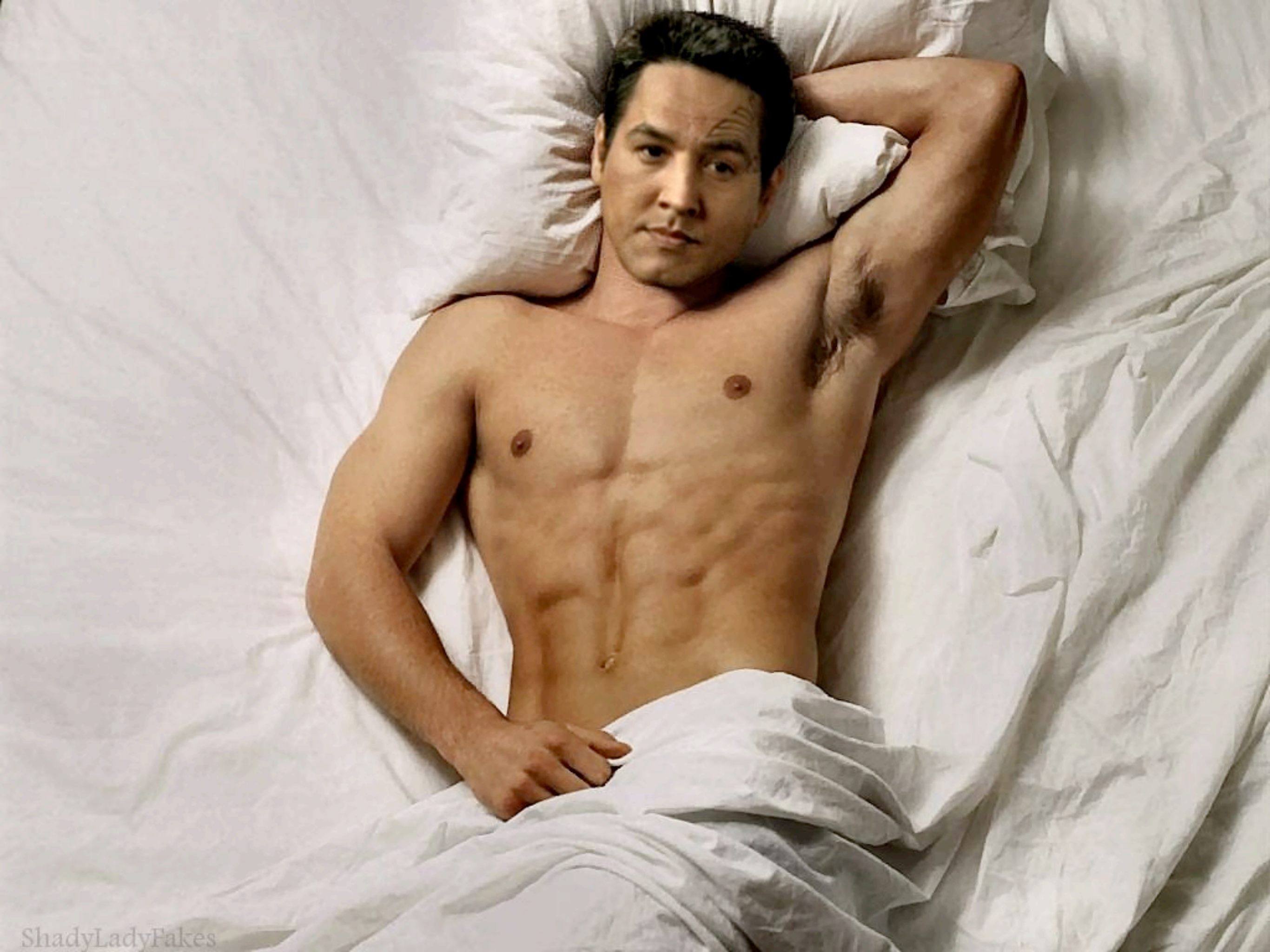
jQote2

John Resig's awesome JavaScript Micro-Templating ported to jQuery

jQote2 [tʃə'koʊteɪ]

John Resig's awesome JavaScript Micro-Templating ported to jQuery





jQote2 [tʃə'koʊteɪ]

John Resig's awesome JavaScript Micro-Templating ported to jQuery

What about PhoneGap?

Image Loading

```
var logo = 'http://www.liip.ch/files/images/team/chregu.png';  
$('#somewhere').append('<img/>')  
  .children(':last')  
  .attr('src', logo)  
  .css('display', 'none')  
  .after('')  
  .load(  
    function () {  
      var img = $(this);  
      img.next('img').remove();  
      img.css('display', 'block');  
    }  
  );
```

Image Loading

```
var logo = 'http://www.liip.ch/files/images/team/chregu.png';
$('#somewhere').append('<img/>')
  .children(':last')
  .attr('src', logo)
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    function () {
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Image Loading

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    .load(
        function () {
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            img.css('display', 'block');
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    );
```


Image Loading

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var logo = 'http://www.liip.ch/files/images/team/chregu.png';
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    .css('display', 'none')
    .after('')
    .load(
        function () {
            var img = $(this);
            img.next('img').remove();
            img.css('display', 'block');
        }
    );
```

What about PhoneGap?

Dispatcher

```
$(function () {  
    // [...] basic setup of the layout, toolbar, ect...  
  
    $.address.value('index');  
    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
    );  
});
```

```
$(function () {  
    // [...] basic setup of the layout, toolbar, ect...  
  
    $.address.value('index'); // #index  
    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
    );  
});
```

```
$(function () {  
    // [...] basic setup of the layout, toolbar, ect...  
  
    $.address.value(localStorage.getItem('currentPage') || 'index');  
    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
    );  
});
```

```
$(function () {  
    // [...] basic setup of the layout, toolbar, ect...  
  
    $.address.value(localStorage.getItem('currentPage') || 'index');  
    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
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    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
    );  
});
```



```
$(function () {  
    // [...] basic setup of the layout, toolbar, ect...  
  
    $.address.value(localStorage.getItem('currentPage') || 'index');  
    $.address.init(  
        function () {  
            $.address.change(ksm.application.processURI);  
        }  
    );  
});
```

```
ksm.application = {
```

```
  // [...]
```

```
  processURI: function (address) {
```

```
    var module, parameters;
```

```
    // click, click, click
```

```
    // module = 'search';
```

```
    // parameters = {q: 'ice+cream'}
```

```
    if ('string' === ksm[module].stub) {  
      $('#content').html(ksm[module].stub);  
    }
```

```
    if ('function' === typeof ksm[module].init) {  
      ksm[module].init(parameters);  
    }
```

```
  }
```

```
}
```

```
ksm.application = {
```

```
#search?q=ice+cream
```

```
// [...]
```

```
processURI: function (address) {
```

```
  var module, parameters;
```

```
  // click, click, click
```

```
  // module = 'search';
```

```
  // parameters = {q: 'ice+cream'}
```

```
  if ('string' === ksm[module].stub) {  
    $('#content').html(ksm[module].stub);  
  }
```

```
  if ('function' === typeof ksm[module].init) {  
    ksm[module].init(parameters);  
  }
```

```
}
```

```
}
```

```
ksm.application = {  
  
  // [...]  
  
  processURI: function (address) {  
    var module, parameters;  
  
    // click, click, click  
    // module = 'search';  
    // parameters = {q: 'ice+cream'}  
  
    if ('string' === ksm[module].stub) {  
      $('#content').html(ksm[module].stub);  
    }  
  
    if ('function' === typeof ksm[module].init) {  
      ksm[module].init(parameters);  
    }  
  }  
}
```

```
ksm.application = {  
  
  // [...]  
  
  processURI: function (address) {  
    var module, parameters;  
  
    // click, click, click  
    // module = 'search';  
    // parameters = {q: 'ice+cream'}  
  
    if ('string' === ksm[module].stub) {  
      $('#content').html(ksm[module].stub);  
    }  
  
    if ('function' === typeof ksm[module].init) {  
      ksm[module].init(parameters);  
    }  
  }  
}
```

```
ksm.application = {
```

```
  // [...]
```

```
  processURI: function (address) {  
    var module, parameters;
```

```
    // click, click, click
```

```
    // module = 'search';
```

```
    // parameters = {q: 'ice+cream'}
```

```
    if ('string' === ksm[module].stub) {  
      $('#content').html(ksm[module].stub);  
    }
```

```
    if ('function' === typeof ksm[module].init) {  
      ksm[module].init(parameters);  
    }
```

```
  }
```

```
}
```

```
$.address.value('#search?q=ice+cream');
```

```
$.address.change(ksm.application.processURI);
```

```
ksm.search.init({q: 'ice+cream'});
```

```
ksm.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```



```
ksm.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
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```
ksm.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```

```
kism.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```

```
ksm.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```

```
ksm.search = (function () {
    var that, callback;

    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get( // parameters = {q: 'ice+cream'}
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```

```
ksm.search = (function () {
    var that, callback;

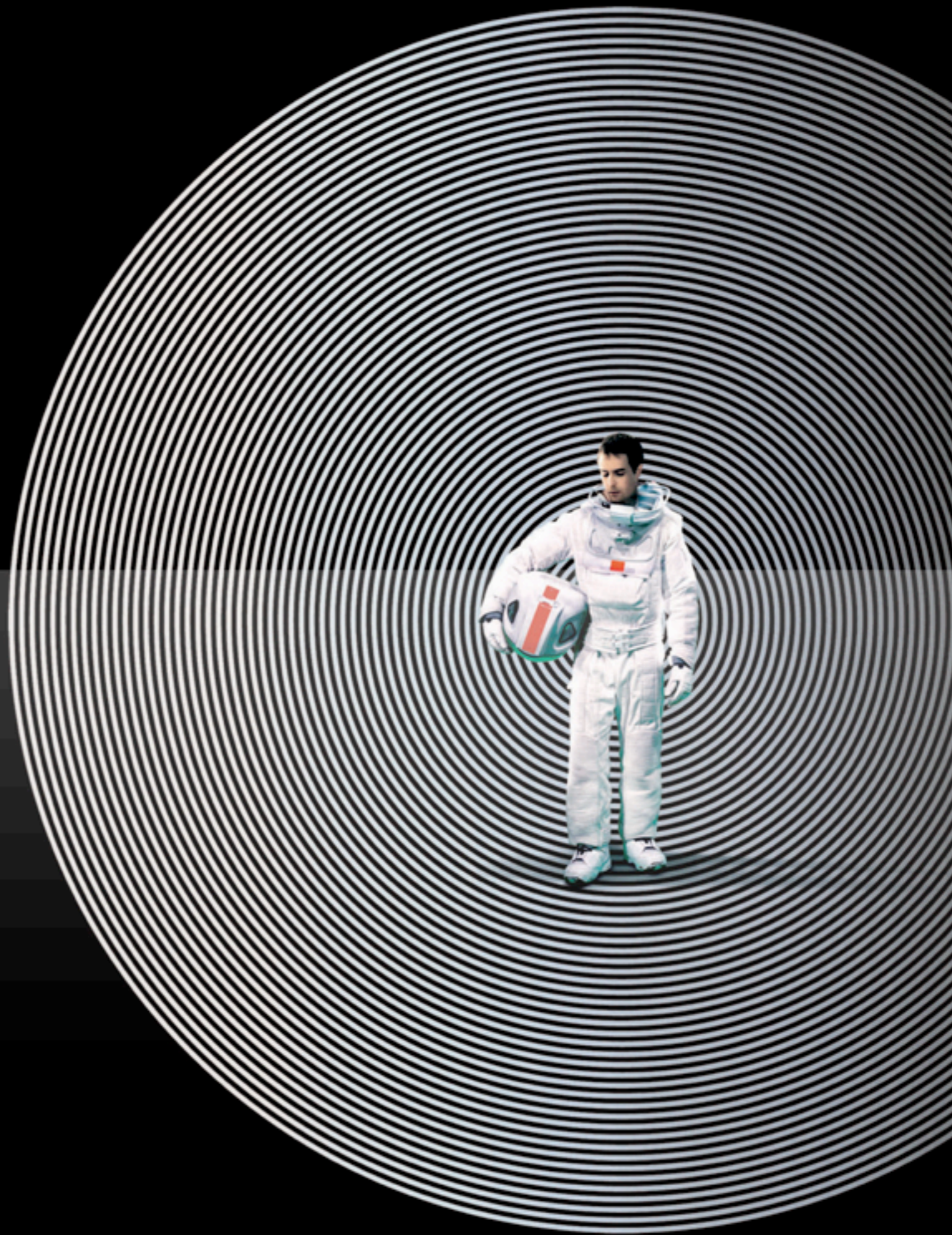
    callback = return function (result) {
        // do your thing...
    };

    that = {
        init: function (parameters) {
            $.get(
                'http://api.com/search.json',
                parameters,
                callback
            );
        };
    };

    return that;
})();
```

```
ksm.application = {  
  
  // [...]  
  
  setAddress: function (uri) {  
    localStorage.setItem('currentPage', uri);  
    $.address.value(uri);  
  }  
  
};
```

SAM ROCKWELL
SAM ROCKWELL
SAM ROCKWELL



250,000 MILES FROM HOME,
THE HARDEST THING TO FACE...
IS YOURSELF.

MOON

A SONY PICTURES CLASSICS RELEASE A LIBERTY FILMS PRODUCTION IN ASSOCIATION WITH KINGU FILMS AND LIMELIGHT SAM ROCKWELL "MOON" DOMINIQUE McELLOGOTT
KARA SCODELARIO BENEDICT WONG MATT BERRY MALCOLM STEWART EXECUTIVE DIRECTORS JEREMY ZIMMERMANN AND MANUEL PURO MAKE-UP AND HAIR DESIGN KAREN BRYAN DANSON
COSTUME DESIGNER JANE PETRIE CONCEPTUAL DESIGN GAVIN BOTHERY PRODUCTION DESIGNER TONY NOBLE SFX & CHARACTER ANIMATION BY CINESITE DIRECTOR OF PHOTOGRAPHY GARY SHAW MUSIC BY CLINT MANSELL
EDITOR NICOLAS GASTER LINE PRODUCER JULIA VALENTINE EXECUTIVE PRODUCERS MICHAEL HENRY BILL ZYSBLAT TREVOR BEATTIE BIL BUNGAY CO-PRODUCERS ROCKY HOSS ALEX FRANCIS
MARK FOLIGNO STEVE MILNE STORY BY DUNCAN JONES WRITTEN BY NATHAN PARKER PRODUCED BY STUART FENEGAN TRUDIE STYLER DIRECTED BY DUNCAN JONES

www.moon-movie.com www.sonyclassics.com


```
// currentPage: #search?q=ice+cream
```

```
$(function () {  
    $.address.value(localStorage.getItem('currentPage'));  
    $.address.change(ksm.application.processURI);  
});
```

```
ksm.search.init({q: 'ice+cream'});
```

```
ksm.application.setAddress = function (uri) {  
    localStorage.setItem('currentPage', uri);  
    $.address.value(uri);  
}
```

Localization

Localization is
asynchronous

Localization is asynchronous

*Module dependent.
We need it for Ajax Calls.*



```
kism.search = (function () {  
    var that, callback;  
  
    callback = return function (result) {};  
  
    that = {  
        init:  
  
        function (parameters) {  
            $.get(  
                'http://api.ch/search.json',  
                parameters,  
                callback  
            );  
        }  
  
    };  
  
    return that;  
})();
```

```
kism.search = (function () {
    var that, callback;

    callback = return function (result) {};

    that = {
        init: function (parameters) {
            kism.location.localizeCall(
                function (parameters) {
                    $.get(
                        'http://api.ch/search.json',
                        parameters,
                        callback
                    );
                },
                parameters
            )
        };
    };

    return that;
})();
```

```
ksm.location = {
  localizeCall: function (callback, parameters) {
    navigator.geolocation.getCurrentPosition(
      function (position) {
        parameters.latitude = position.coords.latitude;
        parameters.longitude = position.coords.longitude;
        callback(parameters);
      },
      function (error) {
        // error.code === 1 => denied
        that.localizeCall(callback, parameters);
      }
    );
  }
}
```

```
ksm.location = {
  localizeCall: function (callback, parameters) {
    navigator.geolocation.getCurrentPosition(
      function (position) {
        parameters.latitude = position.coords.latitude;
        parameters.longitude = position.coords.longitude;
        callback(parameters);
      },
      function (error) {
        // error.code === 1 => denied
        that.localizeCall(callback, parameters);
      }
    );
  }
}
```



```
ksm.location = {
  localizeCall: function (callback, parameters) {
    navigator.geolocation.getCurrentPosition(
      function (position) {
        parameters.latitude = position.coords.latitude;
        parameters.longitude = position.coords.longitude;
        callback(parameters);
      },
      function (error) {
        // error.code === 1 => denied
        that.localizeCall(callback, parameters);
      }
    );
  }
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ksm.location = {
  localizeCall: function (callback, parameters) {
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      function (position) {
        parameters.latitude = position.coords.latitude;
        parameters.longitude = position.coords.longitude;
        callback(parameters);
      },
      function (error) {
        // error.code === 1 => denied
        that.localizeCall(callback, parameters);
      }
    );
  }
}
```

```
ksm.location = {
  localizeCall: function (callback, parameters) {
    navigator.geolocation.getCurrentPosition(

      function (position) {
        parameters.latitude = position.coords.latitude;
        parameters.longitude = position.coords.longitude;
        callback(parameters);
      },

      function (error) {
        // error.code === 1 => denied
        that.localizeCall(callback, parameters);
      }

    );
  }
}
```

Are *you* still with me?

Pass the **parameters** to
the **callback** function...

```
ksm.search = (function () {
    var that, getCallback;

    callback = function (result) {

        // do your thing...

    };

    that = {
        init: function (parameters) {
            ksm.location.localizeCall(
                function (parameters) {
                    $.get(
                        'http://api.ch/search.json',
                        parameters,
                        callback
                    );
                },
                parameters
            );
        };
    };

    return that;
})();
```

```
ksm.search = (function () {
    var that, getCallback;

    getCallback = function (parameters) {
        return function (result) {
            // do your thing...
        };
    };

    that = {
        init: function (parameters) {
            ksm.location.localizeCall(
                function (parameters) {
                    $.get(
                        'http://api.ch/search.json',
                        parameters,
                        getCallback(parameters)
                    );
                },
                parameters
            );
        };
    };

    return that;
})();
```

```
ksm.search = (function () {
    var that, getCallback;

    getCallback = function (parameters) {
        return function (result) {
            // do your thing...
        };
    };

    that = {
        init: function (parameters) {
            ksm.location.localizeCall(
                function (parameters) {
                    $.get(
                        'http://api.ch/search.json',
                        parameters,
                        getCallback(parameters)
                    );
                },
                parameters
            );
        };
    };

    return that;
})();
```


There's more...

- Login
- Back button
- Actions

There's more...

- Login
- ~~Back button~~
- ~~Actions~~

Getting round the **stateless nature of HTTP**

cookie

Getting round the stateless nature of HTTP

~~cookie~~

Getting round the **stateless nature of HTTP**

```
ksm.search = (function () {
  var that, getCallback;

  getCallback = function (parameters) {
    return function (result) {
      // do your thing...
    };
  };

  that = {
    init: function (parameters) {
      ksm.location.localizeCall(
        function (parameters) {
          $.get(
            'http://api.ch/search.json',
            parameters,
            getCallback(parameters),
            'json'
          );
        },
        parameters
      );
    };
  };

  return that;
})();
```

```
ksm.search = (function () {
  var that, getCallback;

  getCallback = function (parameters) {
    return function (result) {
      // do your thing...
    };
  };

  that = {
    init: function (parameters) {
      ksm.location.localizeCall(
        function (parameters) {
          ksm.application.post(
            'search.json',
            parameters,
            getCallback(parameters)
          );
        },
        parameters
      );
    };
  };

  return that;
})();
```

```
ksm.application.post = function (url, parameters, callback) {  
    var token, apiPath;  
  
    apiPath = 'http://api.ch/';  
  
    token = localStorage.getItem("token");  
  
    if (token) {  
        // inject the token  
        parameters.token = token;  
    }  
  
    $.post(  
        apiPath + url,  
        parameters,  
        callback,  
        'json'  
    );  
}
```



```
ksm.application.post = function (url, parameters, callback) {  
    var token, apiPath;  
  
    apiPath = 'http://api.ch/';  
  
    token = localStorage.getItem("token");  
  
    if (token) {  
        // inject the token  
        parameters.token = token;  
    }  
  
    $.post(  
        apiPath + url,  
        parameters,  
        callback,  
        'json'  
    );  
}
```

```
ksm.application.post = function (url, parameters, callback) {  
    var token, apiPath;  
  
    apiPath = 'http://api.ch/';  
  
    token = localStorage.getItem("token");  
  
    if (token) {  
        // inject the token  
        parameters.token = token;  
    }  
  
    $.post(  
        apiPath + url,  
        parameters,  
        callback,  
        'json'  
    );  
}
```

This is the slide #99