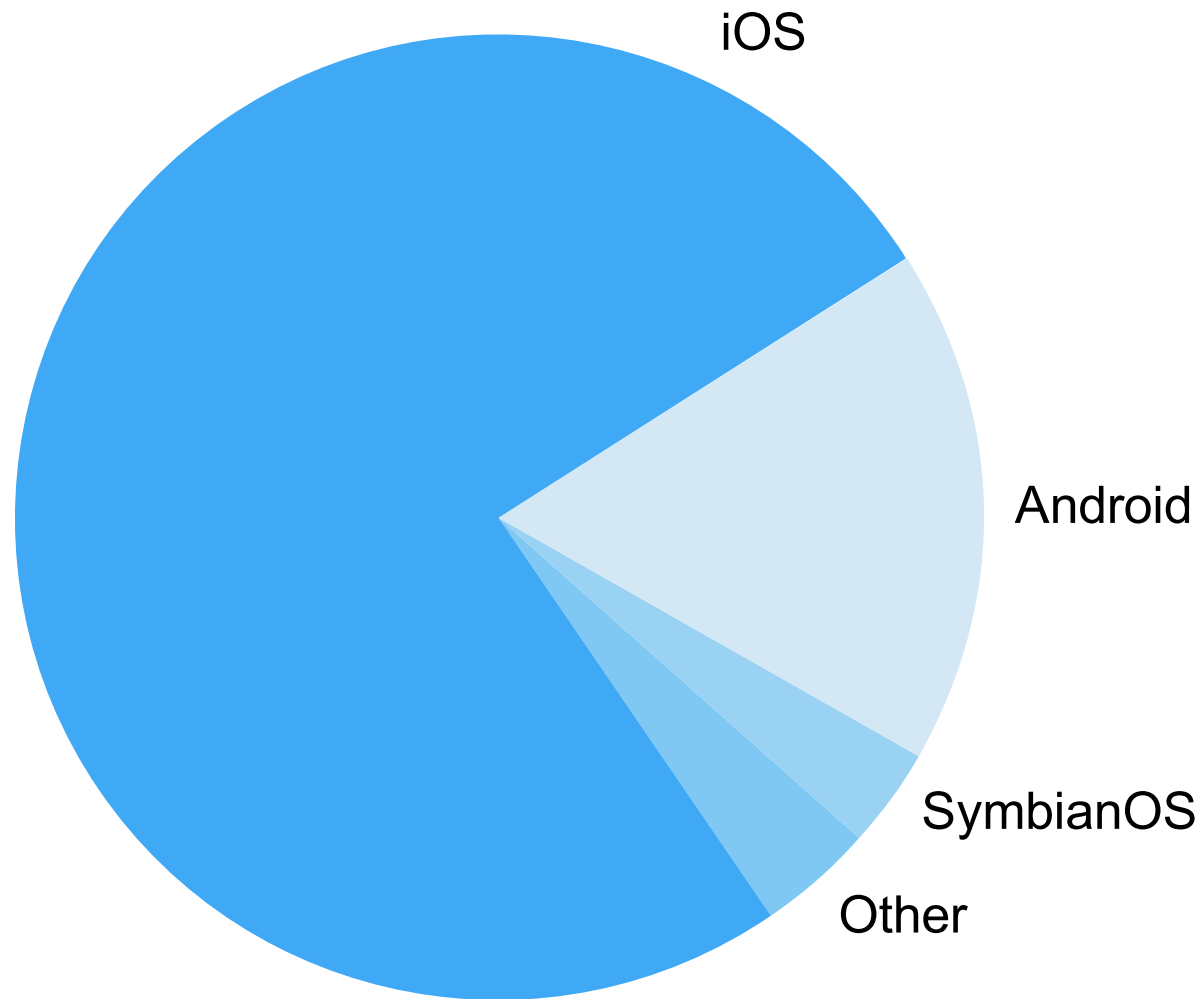# Frameworks for Mobile Web App Development

# Contents

1. Current state
2. Prerequisites and criteria
3. Analysis of two frameworks
4. Conclusions
5. Questions

frontend mobile development

# Mobile OS Shares in Switzerland

iOS

Android

SymbianOS

Other

http://gs.statcounter.com/#mobile_os-CH-monthly-201105-201105-bar

# Framework* Prerequisites Example

Language:               JavaScript
Platform Support:   At least iOS and Android
Version:                 Out of alpha

\* Framework for developing mobile web applications

# Framework* Criteria Example

- Community
- Learning curve
- Access to platform
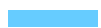- Performance
- Price
- Ease of use
- Development Tools



\* Framework for developing mobile web applications

# jQuery Mobile

**+**

- Built upon jQuery
- Has common UI Controls
- AJAX page loading built in

**—**

- Complicated Plug-in code (scoping / state)
- Sometimes buggy or unfinished

index.html

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Demo</title>
        <link rel="stylesheet"
              href="http://code.jquery.com/mobile/1.0a4.1/jquery.mobile-1.0a4.1.min.css"
              type="text/css">
        <script type="text/javascript"
                src="http://code.jquery.com/jquery-1.5.2.min.js">
        </script>
        <script type="text/javascript"
                src="http://code.jquery.com/mobile/1.0a4.1/jquery.mobile-1.0a4.1.min.js">
        </script>
    </head>
    <body>

    </body>
</html>
```
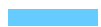
# Sencha Touch

**+**

- JavaScript layouts
- Many UI components
- Stable release

**–**

- Best to stick to the 'Sencha way'
- Populating List views fairly complex

index.html

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Demo</title>
        <link    rel="stylesheet" type="text/css"
                 href="lib/touch/resources/css/sencha-touch.css" />
        <script type="text/javascript"
                src="lib/touch/sencha-touch.js" ></script>
        <script type="text/javascript">


        </script>
    </head>
    <body>
    </body>
</html>
```

# Personal Assessment Example

|  | jQuery Mobile | Sencha Touch |
|---|---|---|
| Community | ★★★★★ | ★★ |
| Learning curve | ★★ | ★★★ |
| Access to platform | ★★★ | ★★★ |
| Performance | ★★★ | ★★★ |
| Price | ★★★★★ | ★★★★ |
| Ease of use | ★★★ | ★★★★ |
| Development Tools | ★★★★ | ★★★★ |

# Conclusions

• Still a 'wild west' spirit amongst developers

• Framework choice depends on personal assessment

• Write prototypes before choosing a framework

flickr.com/photos/34652102@N04/5293019839/

**Questions?**

```javascript
(function($) {

    $.fn.pluginName = function(method) {

        var methods = {

            init : function(options) {
                this.pluginName.settings = $.extend({}, this.pluginName.defaults, options);
                return this.each(function() {
                    var $element = $(this),
                        element = this;
                    // code goes here
                });

            },

            foo_public_method: function() {
                // code goes here
            }

        }

        var helpers = {
            foo_private_method: function() {
                // code goes here
            }
        }

        if (methods[method]) {
            return methods[method].apply(this, Array.prototype.slice.call(arguments, 1));
        } else if (typeof method === 'object' || !method) {
            return methods.init.apply(this, arguments);
        } else {
            $.error( 'Method "' +  method + '" does not exist in pluginName plugin!');
        }

    }

    $.fn.pluginName.defaults = {
        foo: 'bar'
    }

    $.fn.pluginName.settings = {}

})(jQuery);
```