

# INTERSYSTEMS<sup>®</sup>

## Web Development

**Javascript IDEs, AngularJS,  
other tools and frameworks... and Caché**

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# The World of HTML5 and Javascript is Moving Fast...

- New IDEs:
  - Brackets (Adobe, free) (!)
  - Atom (GitHub, free)
  - TextMate (on Macs, non-free?)
  - Sublime Text (non-free)
  - ...
- REALLY built for MODERN HTML5 development, support modern tools and languages and advanced capabilities
- The "classics" also support modern tools mostly:
  - Eclipse (free)
  - NetBeans (free)
  - IntelliJ IDEA (non-free)
  - Visual Studio? (non-free)

# The World of HTML5 and Javascript is Moving Fast...

- Finally all browsers now seem to align closely on standards (HTML5, CSS3 and ECMAScript/JavaScript)
  - IE always a bit behind
  - Others may have some missing pieces but actively working on them
  - Most standards-compliant browser is Google Chrome at the moment
- Meta-languages are created to ease development:
  - Improve on CSS:
    - Less
    - Sass
    - Stylus
  - Improve on Javascript:
    - Dart (Google)
    - TypeScript (MS)
    - CoffeeScript
    - LiveScript...

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- A million (useful) tools are available:
  - Package managers e.g. NPM, Bower
  - Continuous integration tools like GruntJS (!)
  - Utilities for direct code exchange and test like JSFiddle, TinkerBin, CodePen...
  - Testing frameworks or apps: PhantomJS, ZombieJS, HTMLUnit, CasperJS, Capture.JS, Sinon.JS, Karma, etc.
  - Templating frameworks like Handlebars, Jade, etc.
  - Minimizers (JS, CSS, HTML)
- (Integrated) HTML/JS debugging with developer tools and Firebug (!!!)
- New capabilities like live preview (!)

# The World of HTML5 and Javascript is Moving Fast...

- The world is abuzz with new JS frameworks:
  - AngularJS (google, free) (!!!)
  - BackboneJS (free)
  - JQuery (free)
  - Dojo (free)
- The world is abuzz with new HTML frameworks:
  - Polymer (Google, free) (!)
  - BootStrap (and Angular-UI) (!)
  - And more...
- Everybody goes "mobile"
  - Mobile-ready CSS frameworks (like the above)
  - Adobe PhoneGap (or Apache Cordova, free) to access multi-touch and mobile hardware

# AngularJS

- Developed by Google
  - MIT license: you can do basically whatever you want with it, at NO COST
- Uses MVC heavily, which dramatically simplifies development
- Integrates a promises framework (\$q), JQuery lite and more capabilities; plays well with JQuery
- Now very well supported by IDEs and developer tools
- HUGE participation of the community, EXTREMELY HOT at the moment
  
- First AngularJS-only conference in Europe Oct. 22<sup>nd</sup>-23<sup>rd</sup> 2014 in Paris has:
  - 36 speakers
  - 17 sponsors & 8 "supporters"
  - Preceded by 2 days of training (20<sup>th</sup>–21<sup>st</sup>)

The Good News Is...

**It all works with Caché!**

# Demo

- Brackets IDE (including live preview and direct CSS edit)
- GruntJS (compile, minimize and deploy)
- AngularJS and Caché