Knockout Training Syllabus

Instructor: **Daniel Lewis**

Start: 9:00am End: 4:00pm

# Pre Reqs:

Students should bring a laptop and be prepared to actively participate in the class. A basic understanding of HTML and Javascript is all that is needed in terms of knowledge.

Students should install the following items on their laptops prior to class:

* Brackets (<http://brackets.io>)
* NodeJS (<http://nodejs.org/> )

Or have their IDE of choice and the ability to host html files set up on there machine.

The GitHub repository with the course work:

<https://github.com/sympletech/KnockoutJSCourse>

# Course Outline

* (9:00 – 9:30) Networking as we let everyone arrive.
* (9:30 – 9:45) Speaker / Class Introductions
* (9:45 – 10:00) Setting up personal dev environments and forming pairs.
* (10:00 – 10:15) Introduction to KnockoutJS
  + The Problem – js bound to the DOM
  + The Pattern – MVVM
  + Why choose Knockout over other similar libraries
* (10:15 – 10:30) Koan 1 –The Basics
* (10:30 – 10:45) Koan 1 – Review
* (10:45 – 11:00) Break
* (11:00 – 11:15)
* Koan - Defining the basic Structure of a knockout Application (10 mins)
* Break (10 mins)
* -- 11am
* The Basic Bindings (10 mins)
  + text
  + html
  + css
  + style
  + attr
* Koan - The Basic Bindings (15 mins)
* The Input Bindings (10 mins)
  + value
  + checked
  + hasfocus
  + options
  + selected options
* Koan - The Input Bindings (15 mins)
* Class Reflection (10 mins)
* -- 12pm
* Lunch (35 mins)
* Actions (10 mins)
  + Click
  + Submit
  + Event
* Koan – Actions (15 mins)
* -- 1pm
* Collections (5 mins)
  + Observable Arrays
  + ForEach
  + Click
* Child ViewModels(5 mins)
  + with binding
* Koan – Collections and Child ViewModels (15 mins)
* Templates (10 mins)
  + How they work
  + Passing data to them
* Koan –Templates (15 mins)
* Break (10 mins)
* -- 2pm
* More Advanced Collections (30 mins)
  + The meat of good applications
  + Collections within collections with collections of relationships
  + Linked select lists
  + Linked Templates
* Koan - More Advanced Collections (20 mins)
* Class Reflection (10 mins)
* Break (10 mins)
* --3pm
* Talking to webservices (10 mins)
  + Making ajax calls (using jquery)
  + Filling view model properties
  + Model Binding
  + Sending data back to the server
* Koan - Talking to webservices (15 mins)
* Course Recap (15 mins)
* Class Retrospective (15 mins)