

REINTRODUCE KNOCKOUTS

for beginners and intermediate players

KO HIGHLIGHTS

- ▶ Core of SR front-end
- ▶ Supports old browsers (such as IE7)
- ▶ Easy to setup (no boilerplate crap)
- ▶ Powerful (<https://portal.azure.com>)
- ▶ Does one thing, but does it well

WHAT WE GONNA LEARN TODAY

- ▶ ~~How to answer your survey properly~~
- ▶ ko.observable
- ▶ ko.computed
- ▶ Manual subscriptions
- ▶ ko.observableArray
- ▶ Custom binding
- ▶ Write a TODO app

```
git clone https://github.com/rui-infotrack/  
ko-workshop
```

I didn't outsource this project to China

Talk is Cheap. Show Me The Amazing Code

OBSERVABLE PROPERTY

- ▶ name: `ko.observable('InfoMan')`
- ▶ reading: `name()`, writing: `name('InfoWoman')`
- ▶ ``
- ▶ ``
- ▶ `ko.utils.unwrapObservable`

COMPUTED PROPERTY

```
var HomeGrid = {  
  orders: ko.observableArray(/*...an array of orders...*/)  
};  
  
HomeGrid.totalOrders = ko.computed(function() {  
  return HomeGrid.orders().length;  
});
```

- ▶ Re-evaluates when dependent observables update
- ▶ Make sure there is NO side effect
- ▶ Use **ko.pureComputed** when there is no side effect
- ▶ Is NOT an observable subscriber!

MANUAL SUBSCRIPTIONS

- ▶ `myObservableProperty.subscribe(function(newValue) { ... })`
- ▶ Callback for property change
- ▶ e.g. initiate an AJAX search after a company number is changed

OBSERVABLE ARRAY

- ▶ Just an extended observable
- ▶ Besides **push**, you can also **sort**, **splice**, **remove**, **replace**, etc.
- ▶ Binding context: **\$root**, **\$parent**, **\$data** (demo: **npm run context**)
- ▶ Handy utility functions (demo: **npm run utils**)
- ▶ Performance trap (demo: **npm run list**)

CUSTOM BINDING

- ▶ A powerful way to extend knockout
- ▶ Use it when you keep copying & pasting same piece of binding
- ▶ `Hi` looks verbose
- ▶ `Hi` looks cleaner
- ▶ Let's run a demo (`npm run custom`)

LET'S WRITE A TODO APP

- ▶ Run demo: `npm run todo`

?

Thank you and till next time...

Please let me know what topic you might be interested in:

- Front-end Tools?
- ES6?
- Advanced KnockoutJS?
- React?
- Advanced React + Redux?