

Interlude.....

Custom jQuery Events

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336

Custom Events

```
// in our data model...
function AddressBook() {

    this.addContact =
        function( ... ) {
            // store contact

            // tell anyone who cares about update
            $('body').trigger( 'dataModelChanged' );
        };

}

// contact list create function...
$('body').on( 'dataModelChanged', null, updateContactList );
```

- <http://api.jquery.com/trigger/>
- <http://api.jquery.com/on/>

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337

Live Data Model

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338

Live Data Model (1)

- AddressBook
 - Update mutating methods to trigger `dataModelChanged` event on `<body>`
- `createContactList()`
 - Listen to `dataModelChanged` event on `<body>`
 - Rebuild contact list when that happens
 - Reapply any search criteria user may have
- Test by adding contact in debug console

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339

Live Data Model (2)

```
function AddressBook() {

    this.addContact( contact ) { ..... };

    this.deleteContact( id );

    this.getContactDetails( id ) { .... };

    this.getAllNames() { .... };
}
```

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340

Live Data Model (3)

```
function repopulateContactList( dataModel, ul$ ) {

    // pull all our contacts from datamodel

    // sort the contacts!

    // clear <ul>, add each contact as <li>

}

function createContactList( dataModel, div$ ) {

    // append <form> <input>, <ul> to div$

    repopulateContactList( dataModel, ul$ );

    // bind to input keyup, add search call back

    // bind to form submit, prevent form submission

    // bind to dataModelChanged on <body>, repopulatedContactList from callback

}
```

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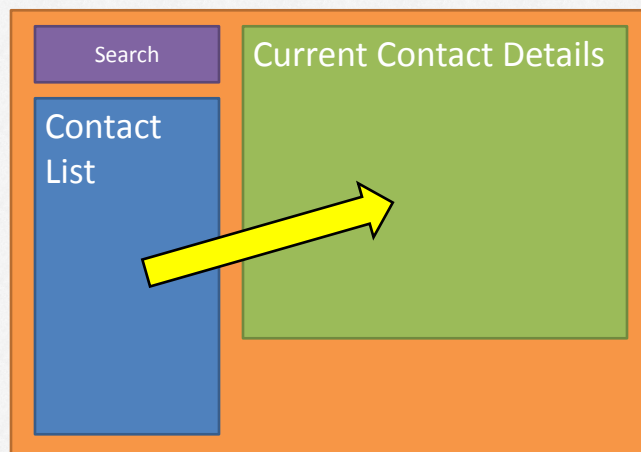
341

Progress Review

- Data model and contact list view now linked!
- Two software design patterns...
 - Model View Controller (MVC)
 - Observer

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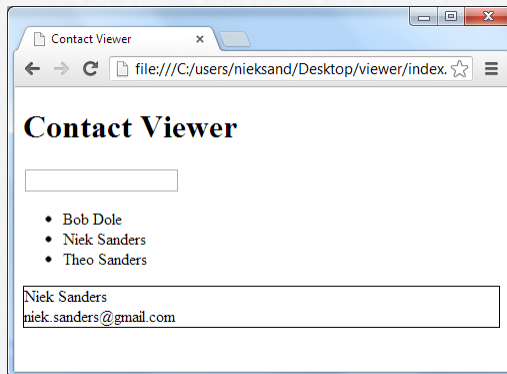
342



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343

Contact Details



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344

Contact Details (1)

- Click on contact list name, show details in separate div
- Contact list emits event on name click
- Details div listens to event, updates currently shown contact
- Details div listens to `dataModelChanged`, updates displayed data if needed

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345

Contact Details (2)

- Put ContactDetails code in separate file
 - ContactDetails.js

```
function createContactDetailView( dataModel, div$) {  
  
    // listen to contact list click events  
  
    // pull clicked on contact from data model  
  
    // clear any existing details div contents  
  
    // populate details div with selected contact name and email  
}
```

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346

More ?

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347

Ideas / Homework

- “Add Contact”
 - Put link under contacts list
 - Bring up jQueryUI modal dialog to accept input
- “Delete Contact”
 - Put X link next to each contact list name
 - On click, purge from data model, update selected contact
- “Edit Contact”
 - Data model will need new method (or you could delete/add)
 - jQueryUI dialog is again your friend
- Visual indication of selected contact
 - When user clicks on contact list, add CSS to visually indicate selected contact