



UI For Developers

Tim Otten & Coleman Watts

In the beginning...

- Civi began in 2005
- All rendering was server-side
- All page updates required a round-trip
- HTML was generated by Quickform + Smarty
- The first javascript library was jspan, then Dojo.

edit primary links

http://192.168.2.8/~kurund/drupal/civicrm/contact/add?ct=Organization&reset=1

New Organization

Recently Viewed: kurund@webaccess.co.in

Organization

Organization Name	Legal Name	SIC Code
<input type="text"/>	<input type="text"/>	<input type="text"/>
Website	Nick Name	
<input type="text"/>	<input type="text"/>	

Communication Preferences

Privacy Do not phone Do not email Do not mail Do not trade

Prefers Phone Email Postal Mail SMS Fax
Select the preferred method of communicating with this contact.

Mail Format
Select the email format preferred by this contact. Select 'Both' to send HTML and Text formats.

Primary Location

Primary location for this contact **Location Name**

Phone (preferred)

Email (preferred)

Instant Messenger (preferred)
Select im service provider, and enter screen-name / user id.

Address

CiviCRM

- CiviCRM Home
- Find Contacts
- Manage Groups
- ▶ Import
- ▶ CiviContribute
- ▶ CiviMail
- ▶ CiviMember
- Administer CiviCRM

Contact Search

» Advanced Search

New Individual

First Name:

Last Name:

Email:

CiviCRM Shortcuts

- New Individual
- New Organization
- New Household
- New Group

kurund

- CiviCRM
- ▶ create content



A collection of widgets *and* a framework for creating new ones

We use:

- Dialogs
- Icons
- Tabs
- Datepicker
- Spinner, menu, etc

We made:

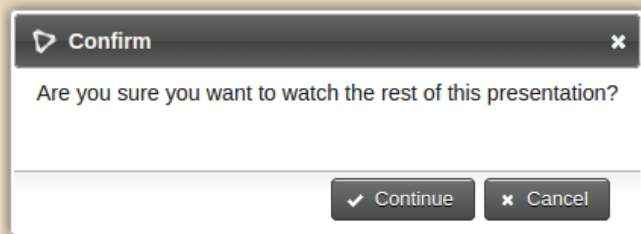
- crmSnippet

✔ Notifications



Tell users what's going on, but don't bug them!

- `CRM.alert()`
Popup notifications with status icon.
- `CRM.confirm()`
Open a dialog with yes/no options.
- `CRM.status()`
Unobtrusive notifications to report on routine operations.
- Chaining with `CRM.api3`
An api call can automatically trigger unobtrusive notices.
- Don't forget about undo...
Be nice to your users. Don't overdo confirmations or popup alerts.



In-place editing

Built with

- The AJAX api
- Semantic markup
- An (old) jQuery plugin
- Unobtrusive notifications

Works to

- Save 1 field at a time
- Best with tabular markup
- Not to be confused with inline edit *forms*

Participant Status				
Manage event participant statuses below. Enable selected statuses to allow event waitlisting and/or participant approval.				
Label	Name (Status ID)	Class	Reserved?	Active?
Registered	Registered (1)	Positive	<input checked="" type="checkbox"/>	Yes
Attended	Attended (2)	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	Yes
No-show	No-show (3)	Negative	<input type="checkbox"/>	Yes

The Select2 revolution

Contact Type(s) Group(s)

- select - - select -

- Student	X	Administrators	X
- Staff	X	Advisory Board	X
- Parent	X	Case Resources	X
		Newsletter Subscribers	X
		Summer Program Volunteers	X

Multiselects

Contact Type(s) Group(s) (search by group type)

x - Student x - Parent x - Staff x Administrators

Select Tag(s)

Phone Number

- Advisory Board
- Case Resources
- Newsletter Subscribers
- Summer Program Volunteers

Participant Status Participant Role

<input type="checkbox"/> Attended	<input type="checkbox"/> Attendee
<input type="checkbox"/> Cancelled	<input type="checkbox"/> Volunteer
<input type="checkbox"/> Expired	<input type="checkbox"/> Host
<input type="checkbox"/> No-show	<input type="checkbox"/> Speaker
<input type="checkbox"/> Pending from incomplete transaction	
<input type="checkbox"/> Pending from pay later	
<input type="checkbox"/> Pending in cart	

Checkbox Sets

Participant Status Participant Role

x Registered x Attended x Attendee

Include Group(s) Exclude Group(s)

Advisory Board
Case Resources
Summer Program Volunteers Add >> << Remove Newsletter Subscribers

Case Resources
Newsletter Subscribers
Summer Program Volunteers Add >> << Remove Advisory Board

AdvMulti-Select

Recipients* x Newsletter Subscribers x Advisory Board

EntityRef

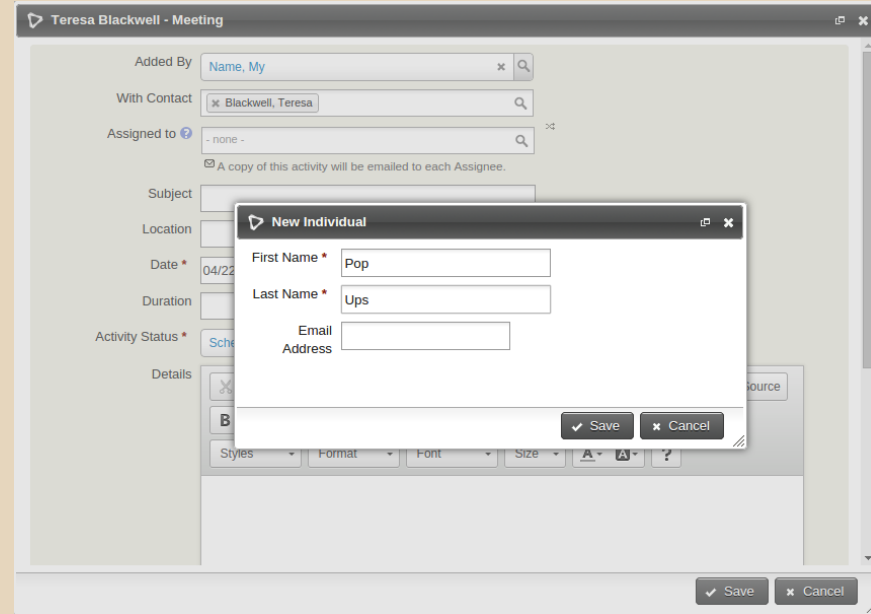
- Based on Select2 and the “getlist” api
- Replaced jQuery autocomplete and tokeninput plugins
- Supports filters
- Can create as well as search
- Not just for contacts
- Fetch additional data from the api

The screenshot displays a web form with several input fields. The 'Activity Type' field is a dropdown menu with '- select -' as the current value. The 'Added By' field is a search input containing 'Name, My' with a clear button and a search icon. The 'With Contact' field is a search input with a search icon. The 'Assigned to' field is a search input with a help icon and a dropdown menu. The 'Subject' field is a search input with a search icon. The search results for 'Assigned to' are visible, showing 'Start typing a name or email...', 'Refine search...', and three options: 'New Individual', 'New Organization', and 'New Household'.

Activity Type	- select -
Added By	Name, My
With Contact	
Assigned to	Start typing a name or email... Refine search... ▾ New Individual New Organization New Household
Subject	

Popups and Snippets

- CiviCRM can return any page as a “snippet”
- Could be inserted into
 - A popup
 - A section
 - Or replace the entire page
- Added tools in 4.5 to make this easy
- Using json, the server can return additional information
 - Notifications
 - Form submission results
 - Anything else you want



RTFM

1

▸ All versions (click to expand)

CiviCRM Documentation

- Installation and Upgrades
- Administrator's Guide (supplement)
- Internationalisation (i18n)
- CMS-specific Documentation
- Participation
- CiviVolunteer 2.0: Public Volunteer Opportunity Listing and Sign-Up

Developer Resources

- Overview
- Developer Setup
- Techniques
- Reference Sheets

CiviCRM books!

Make sure to check out our Online



Overview

- [Introduction](#)
- [Before you start](#)
- [The developer community](#)
- [The codebase](#)
- [Recommendations](#)
- [Contribution Guidelines](#)

Developer Setup

- [Basic set up](#)
- [GitHub for CiviCRM](#)
- [Debugging for developers](#)
- [Testing](#)
- [CiviCRM Dev Environment on Mac OS X using MacPorts, NetBeans, & Webgrind](#)

Techniques

- [Create an Extension](#)
- [Customize Built-in Screens](#)
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- [Hooks](#)
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- [Cookbooks](#)

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- [Bootstrap Reference](#)
- [Cheatsheet](#)
- [CiviMail Reference](#)
- [CiviReport Reference](#)
- [Coding Standards](#)
- [Component Reference](#)
- [Database Reference](#)
- [Extending Reference](#)

and... HWTM

1

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The Search for the Holy Grail



From "Indiana Jones and Last Crusade". Lucasfile, Paramount (1989). Via allmovie.com.

The Search for the Holy Grail

- Documentation
- Compatibility
- Language
- Developers
- Aesthetics
- Performance
- Scaffolding
- External maintenance



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The Search for the Holy Grail

Structure



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The Search for the Holy Grail

Structure

- Page
- Wizard
- Tab
- Accordion
- Toolbar
- Fields

The screenshot shows an email creation wizard with three tabs: "1. Content", "2. Options", and "3. Review". The "1. Content" tab is active. The form includes the following fields:

- Mailing Name***: Cat videos
- Template**: Message Template
- From***: "Demonstrators Anonymous" <info@example.org>
- Recipients***: Summer Program Volunteers (with a yellow badge indicating ~6 recipients)
- Subject***: Cool New Cat Videos! (with a "Tokens" dropdown)

Below the form is an HTML editor with a toolbar containing icons for undo, redo, bold, italic, strikethrough, text color, background color, link, unlink, list, indent, outdent, and a "Source" button. The editor content reads: "Just go to youtube.com and run a search." Below the editor is a "body" label and a "Tokens" dropdown.

At the bottom, there are sections for "Plain Text", "Header and Footer", and "Attachments". The "Preview" section includes:

- Preview as HTML
- Preview as Plain Text
- Send test email to: admin@example.com (with a "Send test" button)
- Send test email to group: Select Group (with a "Send test" button)

Navigation buttons at the bottom include "Next", "Delete Draft", and "Save Draft".

The Search for the Holy Grail

Structure

- Blocks
 - Header block
 - Preview block
 - Schedule block
 - Responding block
 - Tracking block
 - Attachments block

The screenshot displays a web-based interface for creating and managing email campaigns. At the top, there are several input fields: "Mailing Name*" with the value "Cat videos", "Template" set to "Message Template", "From*" set to "Demonstrators Anonymous" with the email address "info@example.org", "Recipients*" set to "Summer Program Volunteers" (indicated as having ~6 recipients), and "Subject*" set to "Cool New Cat Videos!". Below these fields is a toolbar with tabs for "HTML", "Plain Text", "Attachments", "Header and Footer", "Publication", "Responses", and "Tracking". The "HTML" tab is active, showing a rich text editor with a toolbar containing icons for undo, redo, bold, italic, strikethrough, link, unlink, list, and other text formatting options. The main content area of the editor contains the text "Just go to youtube.com and run a search." Below the editor is a "Preview" section with buttons for "Preview as HTML" and "Preview as Plain Text", and fields for "Send test email to:" (admin@example.com) and "Send test email to group:" (Select Group). The "Schedule" section has radio buttons for "Send Immediately" (selected) and "Send at:" with a calendar icon and a "Time" input field. At the bottom, there are three buttons: "Submit Mailing", "Save Draft", and "Delete Draft".

The Search for the Holy Grail

Structure

- Duh?

The screenshot displays an email composition window with a progress bar at the top showing steps: 1. Setup, 2. Target, 3. Compose (A) (selected), 4. Compose (B), and 5. Schedule. Below the progress bar are tabs for Mailing, Attachments, Header and Footer, Publication, and Responses. The main form includes fields for Template (A) set to 'Message Template', From (A)* set to '"Demonstrators Anonymous" <info@example.org>', and Subject (A)* set to 'Can I haz cheezburger?'. A 'Tokens' dropdown is visible next to the subject field. The HTML editor section is expanded, showing a toolbar with icons for undo, redo, bold, italic, strikethrough, link, unlink, list, indent, outdent, and source. The text area contains the HTML code: `Click here if you like memes from the last decade.`. Below the HTML editor is a 'Plain Text' section. The preview section at the bottom shows options to 'Preview as HTML' or 'Preview as Plain Text', a 'Send test email to:' field with 'admin@example.com', a 'Send test email to group:' dropdown set to 'Select Group', and buttons for 'Send test', 'Delete Draft', and 'Save Draft'. Navigation buttons for 'Previous' and 'Next' are also present.

The Search for the Holy Grail

Pursue a top-level document

```
7 <form name="crmMailing" novalidate ng-hide="isSubmitted()">
8   <div class="crm-block crm-form-block crmMailing">
9
10     <div crm-mailing-block-summary crm-mailing="mailing"/>
11     <div crm-mailing-block-mailing crm-mailing="mailing"/>
12
13     <div crm-ui-tab-set>
14       <div crm-ui-tab id="tab-html" crm-title="ts('HTML')">
15         <div crm-mailing-body-html crm-mailing="mailing"/>
16       </div>
17       <div crm-ui-tab id="tab-text" crm-title="ts('Plain Text')">
18         <div crm-mailing-body-text crm-mailing="mailing"/>
19       </div>
20       <span ng-model="placeholder" crm-ui-validate="mailing.body_html || mailing.body_text"></span>
21       <div crm-ui-tab id="tab-attachment" crm-title="ts('Attachments')">
22         <div crm-attachments="attachments"/>
23       </div>
24       <div crm-ui-tab id="tab-header" crm-title="ts('Header and Footer')">
25         <div crm-mailing-block-header-footer crm-mailing="mailing"/>
26       </div>
```

The Search for the Holy Grail

- `<div crm-ui-wizard>` + `<div crm-ui-wizard-step>`
- `<div crm-ui-tab-set>` + `<div crm-ui-tab>`
- `<div crm-ui-accordion>`
- `<div crm-ui-datepicker>`
- `<div crm-ui-help>`
- `<div crm-ui-richtext>`
- `<div crm-ui-select>`
- `<div crm-entity-ref>`
- `<div crm-confirm>`

See also:

- AngularJS tutorials
 - <https://docs.angularjs.org/tutorial>
- Example Civi-Angular layout
 - <https://github.com/civicrm/civicrm-core/tree/4.6/ang/crmMailing/EditMailingCtrl>
- Code generator
 - `civix generate:angular-module`
 - `civix generate:angular-page`
 - `civix generate:angular-directive`