Designless Jake Coppinger

To quickly test the project navigate to dist/ and spin up a Python web server: python python -m SimpleHTTPServer

However this setup does not support client side routing, so if you request host:port/write you will get a 404 error.

To install dependencies and build from the source (or serve with the gulp server), follow the following instructions modified from the Google Polymer setup guide.

Prerequisites

The following major dependencies are required:

- Node.js, used to run JavaScript tools from the command line.
- npm, the node package manager, installed with Node.js and used to install Node.js packages.
- gulp, a Node.js-based build tool.
- bower, a Node.js-based package manager used to install front-end packages (like Polymer).

To install dependencies:

1) Check your Node.js version.

```
node --version
```

The version should be at or above 0.12.x.

- 2) If you don't have Node.js installed, or you have a lower version, go to nodejs.org and click on the big green Install button.
- 3) Install gulp and bower globally.

```
npm install -g gulp bower
```

This lets you run gulp and bower from the command line.

4) Install the local npm and bower dependencies.

```
npm install && bower install
```

Building

Serve / watch

```
qulp serve
```

This outputs an IP address you can use to locally test and another that can be used on devices connected to your network.

Build & Vulcanize

```
gulp
```

Build and optimize the current project, ready for deployment. This

includes linting as well as vulcanization, image, script, stylesheet and HTML optimization and minification.

Features

The original proposal for Designless laid out the following capabilities and their timeline:

- Markdown & JSON to layout engine (Week 6)
- Persistent drag & drop interface (Week 6-Week 10)
- Typography & image controls (Week 10-Week 14)
- Publishing & Documentation (Week 14-Week 16)

I intend to implement all the original features planned. This is possible due to my experimentation with a few technologies before embarking on the project to ensure that the features would be realistically achieved.

MVP Features

In my original proposal I stated:

"For the Minimum Viable Product I hope to complete a prototype which can take Markdown and design structure as a JSON file and render the document layout in the browser, complete with nested textbox-like element support."

I have created implemented this core layout and Markdown data

storage and specification, the important core of the project that everything will be built on. While I haven't implemented the nested textbox support on the front end I have build the data structure code with this in mind.

Some detail into the components I have implemented to support these features:

- jQuery UI Draggable text boxes
- Persistent layout storage using Lockr.js and HTML5 localstorage with pixel perfect placement
- Pixel and millimetre perfect layout storage through computing the pixel-per-millimetre ratio (layout is based in millimetres as it is for print)
- Export of documents through Google Chrome print dialogue follow the print icon from the top right of the app, and then hit print
- Live document updating through clean, callback based Markdown structure parsing pipeline (Markdown.structured() in Markdown.js)
- Material design framework derived from the Google Polymer Starter
 Kit, including customised Grub build chain
- Automatic bower dependency addition to index.html with grubwiredep build chain in gulpfile.js
- Model/View/Controller separation of code:
 - Markdown.js and Layout.js manage the data structures (Model)

- Document.js manages the view from the data
- The DOM stores the view objects
- What-You-See-Is-What-You-Mean Markdown editor which has basic visible formatting controls, derived from SimpleMDE Markdown Editor

Current bugs & Inconsistancies

- When moving from the landing page to the "Write" page, the textarea requires a click to render the text
- Sometimes the textarea does not render at all, reload the page if this happens

Dependencies and Acknowledgements

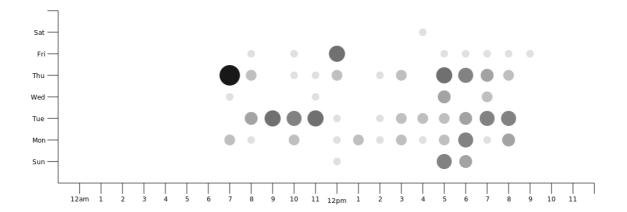
Designless at this stage makes use of the following libraries and resources for the front end (managed with bower):

- Google Polymer (Starter kit) Including the various webcomponents as part of this package (iron-, paper-)
- Page.js client side router
- jQuery
- jQuery UI
- SimpleMDE markdown editor

- "Marked" markdown parser & compiler
- Lockr.js local storage library

Numerous utilities are installed with npm for the gulp build chain.

Punchcard



```
* 8386441 - Thu, 27 Aug 2015 13:44:40 +1000 (4 hours ago) (HEAD, origin/master,
master)
            Added description, keywords and author - Jake Coppinger
| * 1dda795 - Thu, 27 Aug 2015 13:38:54 +1000 (4 hours ago) (origin/darktheme)
              First dark theme steps - Jake Coppinger
* 811a63c - Thu, 27 Aug 2015 10:57:42 +1000 (7 hours ago)
            Fixed gulp build chain bug for export.js - printing - Jake Coppinger
* d5e49ed - Thu, 27 Aug 2015 08:36:04 +1000 (9 hours ago)
            Added print button - Jake Coppinger
* 74685ae - Thu, 27 Aug 2015 07:53:01 +1000 (10 hours ago)
            Added support for independant printing page - Jake Coppinger
* 2351cf9 - Thu, 27 Aug 2015 07:08:27 +1000 (11 hours ago) (origin/dev)
            Fixed typo - Jake Coppinger
* 042321e - Thu, 27 Aug 2015 07:05:11 +1000 (11 hours ago)
            Darkened textbox highlight on write page and added contact details
on about page - Jake Coppinger
* 84fe79b - Tue, 25 Aug 2015 20:59:52 +1000 (2 days ago) (dev)
            Animated background for divs - Jake Coppinger
* 4c478b3 - Tue, 25 Aug 2015 20:40:50 +1000 (2 days ago)
            Prettied up with proper Markdown and styling - Jake Coppinger
* cbeaf58 - Tue, 25 Aug 2015 14:14:20 +1000 (2 days ago)
            Added divshot configuration - Jake Coppinger
* 1ea35da - Tue, 25 Aug 2015 10:33:31 +1000 (2 days ago)
            Adding basic copyright comments - Jake Coppinger
* 1c160ea - Tue, 25 Aug 2015 10:26:24 +1000 (2 days ago)
            Added possible bug fix for non focusing markdown text - Jake
Coppinger
* a52af1a - Tue, 25 Aug 2015 09:51:43 +1000 (2 days ago)
            Fix z-index of textarea text - Jake Coppinger
* d5a98be - Tue, 25 Aug 2015 08:46:53 +1000 (2 days ago)
            More comments - Jake Coppinger
    aeff565 - Tue, 25 Aug 2015 08:09:16 +1000 (2 days ago)
*
              Merging Mac and Linux work on cleaning up repo Merge
| \rangle
remote-tracking branch 'origin/dev' intoc dev - Jake Coppinger
| * b90f232 - Mon, 24 Aug 2015 17:39:08 +1000 (3 days ago)
              Ignored jshinting - Jake Coppinger
* | ee188bc - Tue, 25 Aug 2015 08:08:21 +1000 (2 days ago)
              Deleted deploy folder and added a few comments - Jake Coppinger
* 8bf6f39 - Mon, 24 Aug 2015 07:00:37 +1000 (3 days ago)
           Main.py experiments - Jake Coppinger
* 68d1bf5 - Fri, 21 Aug 2015 12:46:34 +1000 (6 days ago)
            experimental tornado server - Jake Coppinger
* 6295181 - Fri, 21 Aug 2015 12:46:13 +1000 (6 days ago)
           No longer requires markdown comment hack - Jake Coppinger
* b45d7a7 - Fri, 21 Aug 2015 12:08:40 +1000 (6 days ago)
            Moved responsive boxes below A4 page - Jake Coppinger
* 847ae3c - Fri, 21 Aug 2015 10:43:24 +1000 (6 days ago)
            Added paper that floats left - Jake Coppinger
* 05ee268 - Fri, 21 Aug 2015 08:16:16 +1000 (6 days ago)
            Removed markdown text from HTML, now injected from main.js - Jake
Coppinger
* 66ce4f1 - Thu, 20 Aug 2015 20:51:43 +1000 (7 days ago)
            Styling tweaks and added About page - Jake Coppinger
```

```
* 6a532c6 - Thu, 20 Aug 2015 19:57:44 +1000 (7 days ago)
            Added write page and removed hashbangs from URLs - Jake Coppinger
* ac105a8 - Thu, 20 Aug 2015 19:43:38 +1000 (7 days ago)
            Integrated Simple Markdown Editor to native material design paper
card - Jake Coppinger
* 2680748 - Thu, 20 Aug 2015 19:10:15 +1000 (7 days ago) (origin/polydev,
polydev)
            Fixed positioning of textboxes in document with new relative
position - Jake Coppinger
* cdfb20e - Thu, 20 Aug 2015 18:37:36 +1000 (7 days ago)
            Changed color scheme to bright blue and grey - Jake Coppinger
* 0d9c652 - Thu, 20 Aug 2015 18:21:55 +1000 (7 days ago)
            Changed log prefix to Designless - Jake Coppinger
* a798d4e - Thu, 20 Aug 2015 18:21:31 +1000 (7 days ago)
            Made responsive-width 1280 pixels (before drawer opens by default) -
Jake Coppinger
* dca69a5 - Thu, 20 Aug 2015 18:04:03 +1000 (7 days ago)
            Fixed SimpleMDE javascript import - Jake Coppinger
* 36495fa - Thu, 20 Aug 2015 17:55:20 +1000 (7 days ago) (origin/polymer,
polymer)
            Git RM'ed bower_components - Jake Coppinger
* c3f7ae5 - Thu, 20 Aug 2015 17:29:23 +1000 (7 days ago)
            Ignored bower components - Jake Coppinger
* 991b1c3 - Thu, 20 Aug 2015 15:24:29 +1000 (7 days ago)
            Fixed simplemde js import - Jake Coppinger
* 4112f92 - Thu, 20 Aug 2015 15:01:24 +1000 (7 days ago)
            Fixed node modules ignore - Jake Coppinger
* af1fb60 - Thu, 20 Aug 2015 14:52:42 +1000 (7 days ago)
            Remved node_modules and ignored in .gitignore - Jake Coppinger
* 89b4b4f - Thu, 20 Aug 2015 11:44:56 +1000 (7 days ago)
            Added Markdown components and fixed Node - Jake Coppinger
* 46c9d6d - Thu, 20 Aug 2015 08:05:48 +1000 (7 days ago)
            Added bower componetsn - WORKING - Jake Coppinger
* e698a08 - Thu, 20 Aug 2015 07:32:15 +1000 (7 days ago)
            Checking in node modules to git - Jake Coppinger
* a28be50 - Thu, 20 Aug 2015 07:07:09 +1000 (7 days ago)
            Decided to check in bower components to Git - Jake Coppinger
* 724801b - Wed, 19 Aug 2015 19:07:53 +1000 (8 days ago)
            Added main.js file - Jake Coppinger
* af3316d - Wed, 19 Aug 2015 19:01:44 +1000 (8 days ago)
            Added dependances with bower - Jake Coppinger
* aabca0b - Wed, 19 Aug 2015 17:59:57 +1000 (8 days ago)
            Wired in wiredep - Jake Coppinger
* 4a18b8a - Wed, 19 Aug 2015 17:43:25 +1000 (8 days ago)
            Initial deploy of Polymer - Jake Coppinger
| * 47ea9f8 - Thu, 27 Aug 2015 12:01:01 +1000 (6 hours ago) (origin/ui)
              Just rubbish here - Jake Coppinger
| * b7aafc3 - Wed, 19 Aug 2015 17:24:26 +1000 (8 days ago) (ui)
              Broken really bad - Jake Coppinger
 * 3786f75 - Wed, 19 Aug 2015 14:31:15 +1000 (8 days ago)
             New color theme - Jake Coppinger
| * 1d2f042 - Wed, 19 Aug 2015 14:07:02 +1000 (8 days ago)
              Getting used to this gulp beast - Jake Coppinger
| * 4129501 - Wed, 19 Aug 2015 14:01:00 +1000 (8 days ago)
```

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Ignoring log files - Jake Coppinger
* 8bd2fe7 - Wed, 19 Aug 2015 12:17:27 +1000 (8 days ago)
              Re building with polymer example - Jake Coppinger
1/
* 1673238 - Wed, 19 Aug 2015 11:55:55 +1000 (8 days ago) (origin/prettybuttons,
prettybuttons)
            Light colors menu - Jake Coppinger
* d96836c - Wed, 19 Aug 2015 07:53:22 +1000 (8 days ago)
            Working on paper - Jake Coppinger
* 85bfaee - Tue, 18 Aug 2015 19:45:20 +1000 (9 days ago)
            Working on tabs - Jake Coppinger
* 87ddef1 - Tue, 18 Aug 2015 19:03:57 +1000 (9 days ago)
            Added button prototypes - Jake Coppinger
* a380155 - Tue, 18 Aug 2015 18:23:35 +1000 (9 days ago)
            Added Roboto font files - Jake Coppinger
* dda1343 - Tue, 18 Aug 2015 18:09:52 +1000 (9 days ago)
            Moved notes out of deploy - Jake Coppinger
* e153f33 - Tue, 18 Aug 2015 18:08:55 +1000 (9 days ago)
            Working! Fixed bug of re formatted (pre) markdown - Jake Coppinger
* cdc393a - Tue, 18 Aug 2015 17:38:29 +1000 (9 days ago)
            Removed polymer example - Jake Coppinger
* a5c9031 - Tue, 18 Aug 2015 17:37:03 +1000 (9 days ago)
            Added Grunt automation and Polymer - Jake Coppinger
* bd32abb - Tue, 18 Aug 2015 16:38:02 +1000 (9 days ago)
            Installed Polymer - Jake Coppinger
* 9261fab - Tue, 18 Aug 2015 16:37:13 +1000 (9 days ago)
            More ui cleaning - Jake Coppinger
* 6d336f4 - Tue, 18 Aug 2015 15:10:47 +1000 (9 days ago)
            Prettifying editor - Jake Coppinger
* 9a0eb49 - Tue, 18 Aug 2015 12:58:27 +1000 (9 days ago)
            Added scss file - Jake Coppinger
* 1a221b3 - Tue, 18 Aug 2015 11:18:09 +1000 (9 days ago)
            Starting to work on fonts and editor background - Jake Coppinger
* c1a8a58 - Tue, 18 Aug 2015 10:33:01 +1000 (9 days ago)
            Re enabled client side layout save - Jake Coppinger
* 8ab35f0 - Tue, 18 Aug 2015 09:57:42 +1000 (9 days ago)
            More integration of layout.js - Jake Coppinger
* a5be04b - Tue, 18 Aug 2015 09:46:08 +1000 (9 days ago)
            Barely working layout class - Jake Coppinger
* 1957c46 - Tue, 18 Aug 2015 08:52:38 +1000 (9 days ago)
           Mostly finished off layout class, ready to integrate - Jake Coppinger
* 443e9c0 - Mon, 17 Aug 2015 18:51:29 +1000 (10 days ago)
            Added insertTextbox function into Layout - Jake Coppinger
* 30180a2 - Mon, 17 Aug 2015 18:44:40 +1000 (10 days ago)
            Cleaned up index and debug html files - Jake Coppinger
    7351fe3 - Mon, 17 Aug 2015 18:40:11 +1000 (10 days ago)
*
             Merge branch 'master' into dev Bringing layout insertion work into
| \rangle
dev - Jake Coppinger
* 38d5e64 - Mon, 17 Aug 2015 18:18:05 +1000 (10 days ago)
             New heading adds new box to layout - Jake Coppinger
 * 20ad34d - Mon, 17 Aug 2015 13:01:35 +1000 (10 days ago)
             Working live typing with proper line breaks - Jake Coppinger
| * 4a6f793 - Mon, 17 Aug 2015 10:17:18 +1000 (10 days ago)
              Removed markdown and installed marked - Jake Coppinger
* c162373 - Mon, 17 Aug 2015 08:19:37 +1000 (10 days ago)
```

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Working markdown writer and barely functioning vim mode - Jake
Coppinger
* 894f164 - Sun, 16 Aug 2015 18:04:03 +1000 (11 days ago)
             Added fancy markdown editor - Jake Coppinger
* | 015183b - Mon, 17 Aug 2015 18:37:04 +1000 (10 days ago)
             Working on Layout class - Jake Coppinger
1/
* bd04443 - Sun, 16 Aug 2015 17:39:31 +1000 (11 days ago) (origin/fluidboxes,
fluidboxes)
            Successfully updates box content on keyup - Jake Coppinger
* 5b24a5a - Sun, 16 Aug 2015 17:02:29 +1000 (11 days ago)
            Added textbox creation for box headers that don't exist in
Document.updte() - Jake Coppinger
* 973306c - Tue, 11 Aug 2015 11:10:25 +1000 (2 weeks ago)
            Starting to work on progressive, realtime box updating - Jake
Coppinger
* a5f014e - Tue, 11 Aug 2015 10:43:32 +1000 (2 weeks ago)
            Made textbox above page - Jake Coppinger
* dd9bb6c - Tue, 11 Aug 2015 09:33:17 +1000 (2 weeks ago)
            Cleaning up - Jake Coppinger
* 2d59351 - Tue, 11 Aug 2015 09:05:46 +1000 (2 weeks ago)
            Finished localstorage layout save - Jake Coppinger
* ea5a12a - Mon, 10 Aug 2015 16:41:25 +1000 (2 weeks ago)
            broken: Trying to fix box position bugs - Jake Coppinger
* 75147bf - Fri, 7 Aug 2015 12:44:28 +1000 (3 weeks ago)
            Added callback for moving box position - Jake Coppinger
* 17627c2 - Fri, 7 Aug 2015 12:32:37 +1000 (3 weeks ago)
            Changed layout format for size and position box data to be grouped -
Jake Coppinger
* 833d538 - Thu, 6 Aug 2015 17:25:05 +1000 (3 weeks ago)
            Beginning to develop functionality for callbacks on moving boxes -
Jake Coppinger
* 2164184 - Thu, 6 Aug 2015 07:52:40 +1000 (3 weeks ago)
            Cleaned up and added start and stop callback functions - Jake
Coppinger
* 0160ded - Thu, 6 Aug 2015 07:21:17 +1000 (3 weeks ago)
            More cleaning and added helpful link - Jake Coppinger
* 3fa5474 - Thu, 6 Aug 2015 07:04:28 +1000 (3 weeks ago)
            Added lockr to project, wiped debug javascript - Jake Coppinger
* ada964f - Tue, 4 Aug 2015 20:44:25 +1000 (3 weeks ago)
            Added box on box resize - Jake Coppinger
* 3f8195f - Tue, 4 Aug 2015 20:43:33 +1000 (3 weeks ago)
            Relatively stable document creation from markdown text and layout -
Jake Coppinger
* 95a8412 - Tue, 4 Aug 2015 19:54:14 +1000 (3 weeks ago)
            Creates box objects before rendering - Jake Coppinger
* 5c93f41 - Tue, 4 Aug 2015 19:06:17 +1000 (3 weeks ago)
            Cleaned up box creation initialiser function arguments - Jake
Coppinger
* c9c862f - Tue, 4 Aug 2015 11:14:01 +1000 (3 weeks ago)
            Created class for Boxes, started integrating this to render pipeline

    Jake Coppinger

* ceeeca7 - Mon, 3 Aug 2015 20:52:01 +1000 (3 weeks ago)
            Added DPI scaling - need to fix a lot though - Jake Coppinger
* 74204e3 - Mon, 3 Aug 2015 14:27:04 +1000 (3 weeks ago)
```

```
Working on document rendering - about to add content rendering for
each box - Jake Coppinger
* 2962bf0 - Mon, 3 Aug 2015 13:01:42 +1000 (3 weeks ago)
            BROKEN: Need to fix the markdown document object model - Jake
Coppinger
* c6f7c6a - Mon, 3 Aug 2015 12:54:43 +1000 (3 weeks ago)
            Multiline markdown and cleaning up - Jake Coppinger
* 4cd61c2 - Mon, 3 Aug 2015 10:26:01 +1000 (3 weeks ago)
            Broke out MarkdownJson into class - Jake Coppinger
* d1c7b1c - Sat, 1 Aug 2015 16:37:50 +1000 (4 weeks ago)
            Working on regex where marked - Jake Coppinger
* d09c20c - Wed, 29 Jul 2015 17:36:07 +1000 (4 weeks ago)
            Finished YICTE and ITMP proposals - Jake Coppinger
* cefd596 - Mon, 27 Jul 2015 20:38:30 +1000 (4 weeks ago)
            Working on main proposal - Jake Coppinger
* a76b424 - Mon, 27 Jul 2015 19:38:52 +1000 (4 weeks ago)
            Added names and YICTE proposal - Jake Coppinger
* 34031e8 - Mon, 27 Jul 2015 17:40:12 +1000 (4 weeks ago)
            Moving documentation - Jake Coppinger
* 3108e33 - Mon, 27 Jul 2015 15:50:46 +1000 (4 weeks ago)
            Added project proposal spec for school - Jake Coppinger
* 954dc4a - Mon, 27 Jul 2015 15:33:45 +1000 (4 weeks ago)
            Work on markdown html - Jake Coppinger
* 4ede2eb - Mon, 27 Jul 2015 07:53:16 +1000 (4 weeks ago)
            Working on markdown splitting in debug.js - Jake Coppinger
* Ofaf737 - Sun, 26 Jul 2015 18:37:59 +1000 (5 weeks ago)
            cleaning up - Jake Coppinger
 3822bd8 - Sun, 26 Jul 2015 18:34:46 +1000 (5 weeks ago)
            Relative textbox generator - Jake Coppinger
* ddcd07f - Sun, 26 Jul 2015 17:34:04 +1000 (5 weeks ago)
            Working printing in chrome - Jake Coppinger
* e1d3279 - Sun, 26 Jul 2015 17:06:33 +1000 (5 weeks ago)
            First prototype layout structure - Jake Coppinger
* e2625a2 - Sun, 26 Jul 2015 12:56:41 +1000 (5 weeks ago)
            More work on the proposal - Jake Coppinger
* 014d655 - Thu, 23 Jul 2015 20:45:12 +1000 (5 weeks ago)
            Working on more ideas for integrating site to files - Jake Coppinger
* 18ee49e - Thu, 23 Jul 2015 17:15:28 +1000 (5 weeks ago)
            Begun statement - Jake Coppinger
* 3dc02f7 - Thu, 23 Jul 2015 17:05:24 +1000 (5 weeks ago)
            Added names and cleaned up - Jake Coppinger
* ca82693 - Thu, 23 Jul 2015 12:41:41 +1000 (5 weeks ago)
            Development goals start - Jake Coppinger
* 2df0dd3 - Thu, 23 Jul 2015 12:26:30 +1000 (5 weeks ago)
            More ideas at IT camp - Jake Coppinger
* 46f77b4 - Tue, 21 Jul 2015 15:52:51 +1000 (5 weeks ago)
            More work on proposal and moved idea files - Jake Coppinger
* d8aeb88 - Tue, 21 Jul 2015 11:14:42 +1000 (5 weeks ago)
            More work - Jake Coppinger
* d263bdf - Tue, 21 Jul 2015 11:03:58 +1000 (5 weeks ago)
            Beginning of project proposal and course content - Jake Coppinger
* 7844001 - Mon, 25 May 2015 20:50:45 +1000 (3 months ago)
            Added box coordinates and beginning pages - Jake Coppinger
* 3364ef8 - Fri, 22 May 2015 21:17:51 +1000 (3 months ago)
```

Initial boilerplate commit - Jake Coppinger