CML

Imagined San Francisco

Interactive web application for viewing curated maps and associated content

Center for Spatial and Textual Analysis (CESTA) - Stanford University
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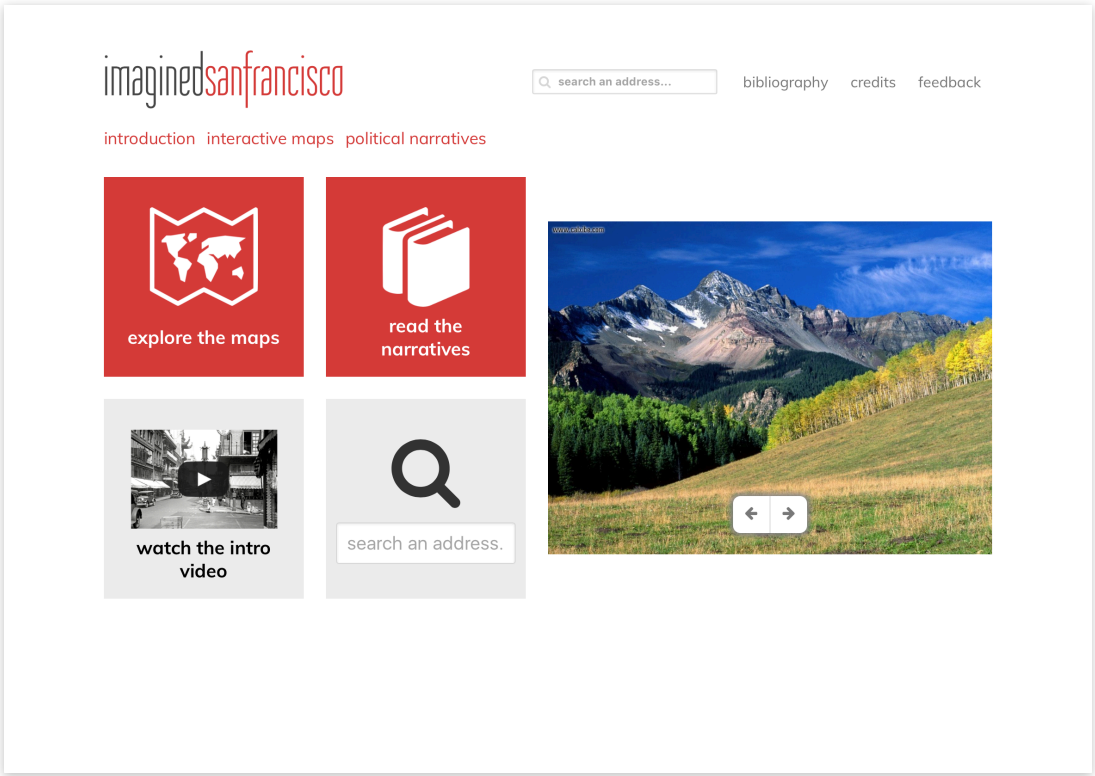**PM** Project Management
Ds Web Design
Dv Web Development

Imagined San Francisco is a project by Professor Ocean Howell (University of Oregon) that explores development in the city of San Francisco that was planned but never completed. We created a web application that renders different collections of superimposed raster map layers, vector map layers and vector feature sets with view controls, along with offering access to written pieces about the map content. Vector features are interactive, revealing associated information when selected, and the application allows the user to see their current location on the map. Authors can embed dynamic maps with specific layer configurations in the written pieces.

The design of the application was based on previous design work (including logos, color schemes and layout sketches). I expanded the existing material to a full branding kit, helped define a content hierarchy for the site, then created mockups for each page and for the main web-based application.

The back-end is a WordPress installation running a custom theme, with all content modifiable by a non-technical administrator from the WordPress CMS admin panel.
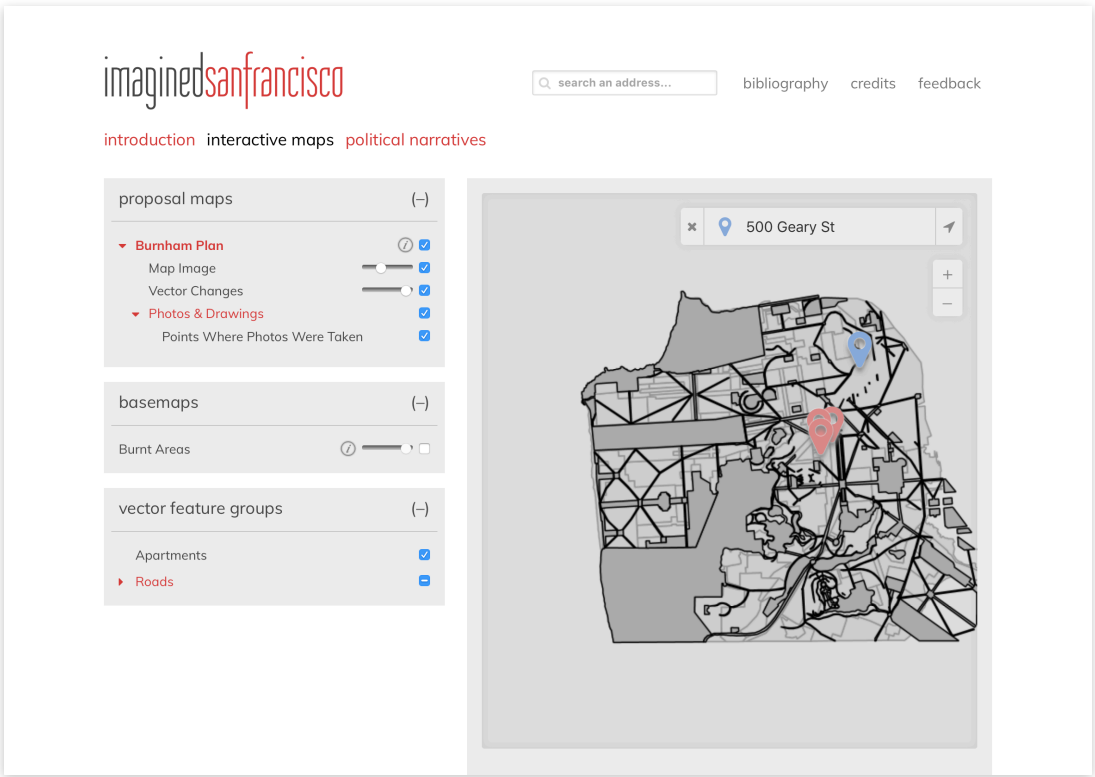
The front-end main map view and author-embedded maps are rendered as WordPress templates with dynamic Vue.js/Vuex instances that handle user interaction and render selected layers and feature sets to a Leaflet map according to user-set parameters. Front-end logic retrieves content from the CMS via a custom REST API. Other pages are rendered from static WordPress templates.
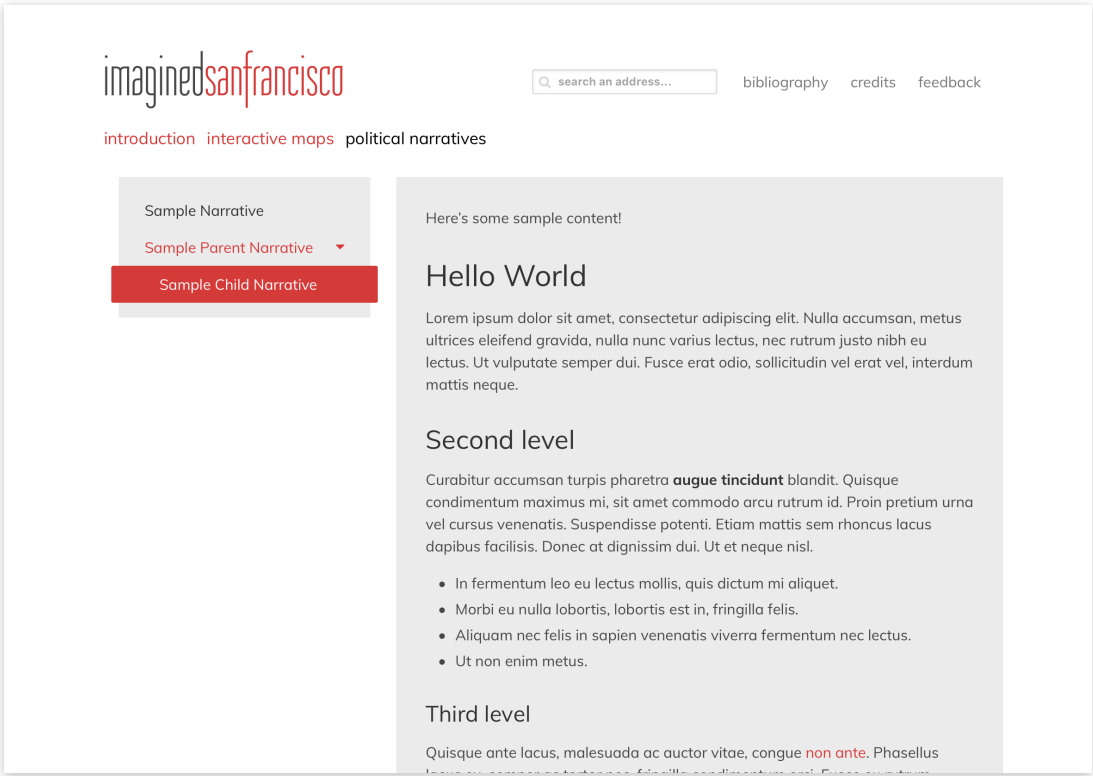
Repository: https://github.com/codyml/imaginedsf

Homepage

Visitors are presented with several ways to engage with the content.
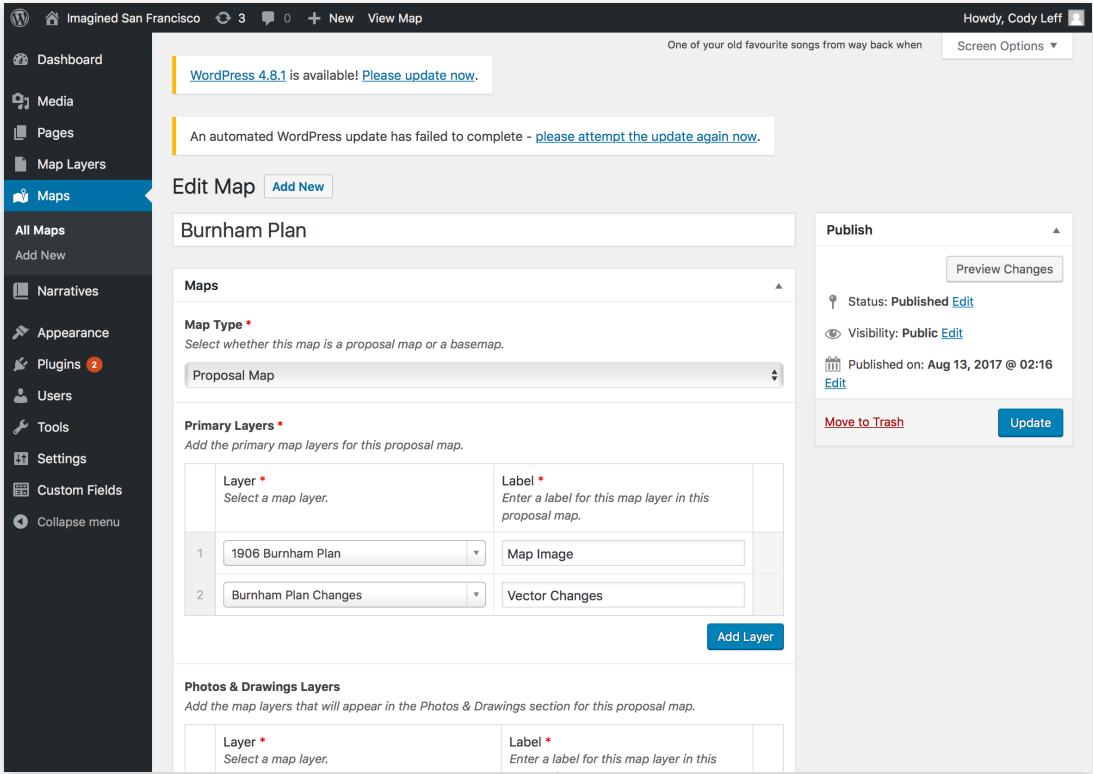

Interactive Maps

The web application allows a user to control the visibility and opacity for raster and vector map layers, basemaps, and vector feature sets. The user can also view their current location or an address of their choosing on the map.

CML

Narrative

Written narratives can include embedded maps.

Custom WordPress CMS Administration

Administrators can easily modify site content using the WordPress administration panel.

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