

# Creating Interactive Web Pages for Non-Programmers

T. D'Ottavio, P. Dyer, G. Marr, S. Nemesure

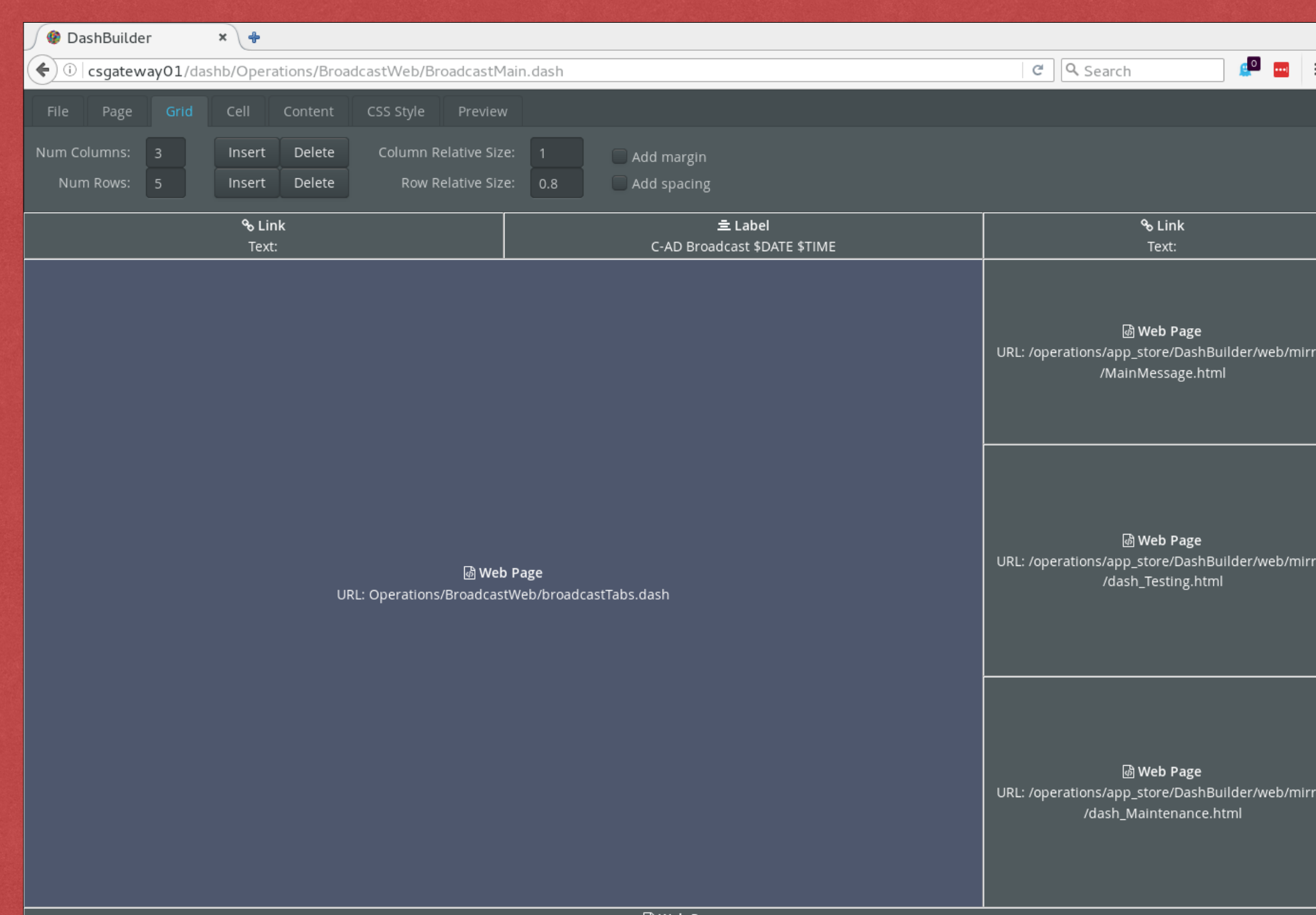
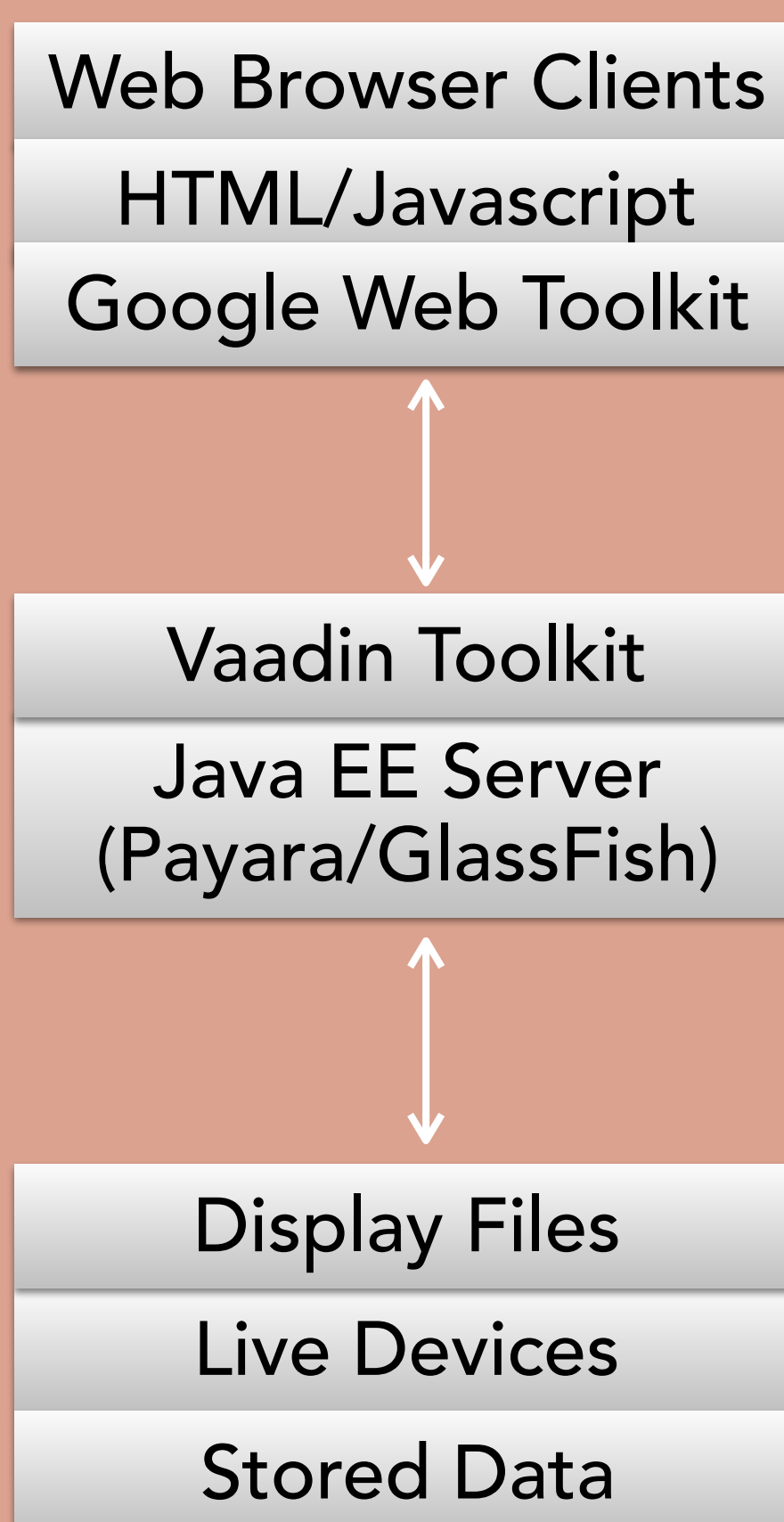
## The Problem

- Modernize public-facing web pages with live and updating data, tables, and charts
- Allow for web page construction by staff with little or no web programming experience
- Setup tools so that web pages can be built for both desktop and mobile clients

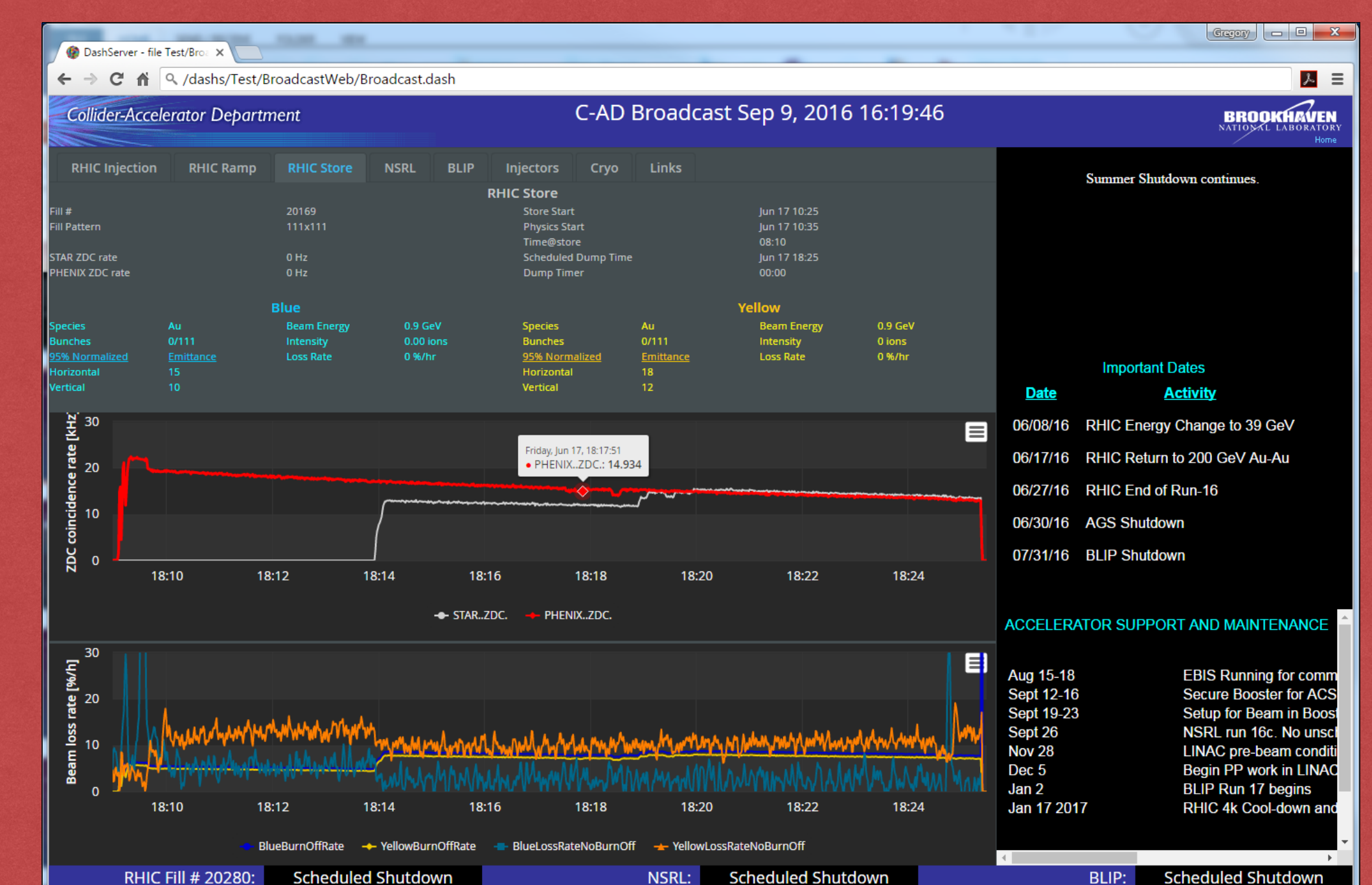
## The Solution

- Create a custom web page builder that lets users construct pages as a grid of tiled cells
- Create cell types for display (tables, charts) and interaction (buttons, menus)
- Take advantage of table/chart construction interfaces that users already know

### System Diagram



### Web Page Builder Interface



### Associated Desktop Web Page

Creating a Web Page - A user lays out the page as a grid of cells with various sizes and margins. Then each cell is customized to display content as a label, table, graph, image, or video. Or a cell can be a UI element like a button or menu. Special cell types allow for the reuse of table or graph files constructed using other applications.



### Mobile Web Application