



Week 10 Assignment: Information Dashboard

Information Visualization Theory and Techniques (2022)

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Context

Boston University supports a custom WordPress website framework to assist its faculty, staff, students, and various schools, colleges, and departments in maintaining high-quality, professional web presences which are in-brand and easy to create.

There are two primary users of the framework: technical users, who use it as a base to develop highly customized websites and extend its functionality, and end-users with no technical knowledge who use the framework primarily for its content management system capabilities. Various aspects of the framework which a product owner must be concerned with to provide an ongoing successful experience include the general usability of the custom tools built by the product team, opportunities to improve extensibility and flexibility of the tools for technical users, the alignment of ongoing project development cycles to new product features, and whether or not users of the product feel updates are being delivered in a timely manner.

For context, I am currently the product owner for this framework.

Data Selection

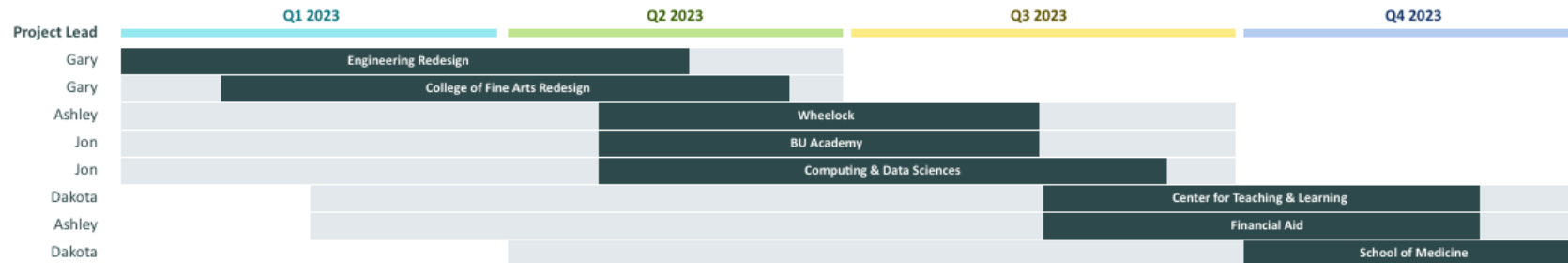
Datasets for this dashboard consist of the following to make informed decisions about the roadmap:

- **10000ft Project Portfolio:** The product primarily serves as the baseline for all custom development in Interactive Design, and must support the projects it uses above all. This dataset provides the start and end dates of all projects currently ongoing or planned in the future.
- **10000ft Resource Availability:** Product team members share a percentage of time responsibility for project work in an agency-style environment. An ongoing challenge that the product owner must balance is if the team member with the right expertise is available to pitch in at the right time for new features. Product team availability drives possibility for the product manager.
- **ServiceNow Tickets:** These support tickets represent the issues reported from a non-technical user perspective, and help the product owner understand if there are any common themes in the end-user experience that need to be investigated by the development or user experience teams. These should be prioritized.
- **Github Discussions:** Github discussions contain bugs, features, and ideas from the technical user perspective. This includes designers, developers, and vendor partners who work with and build upon the product.

A display of the finalized dashboard, along with justifications of chart selection and techniques, follows.

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Upcoming Development Cycles



Product Team Availability



Support Tickets

| Product name | Tag | Tickets in past year |
|----------------------|--|----------------------|
| BU Banners | Regenerate images | 86 |
| BU Banners | Unclear documentation | 59 |
| BU Filtering | Improper results | 40 |
| BU Banners | Background video request | 22 |
| BU Landing Pages | BU Versions compatibility | 20 |
| Responsive Framework | SEO concerns | 20 |
| Responsive Framework | New Accidental theme switch | 18 |
| Responsive Framework | Accessibility concerns | 10 |
| BU Landing Pages | Unclear documentation | 5 |
| BU Banners | Custom HTML request | 2 |

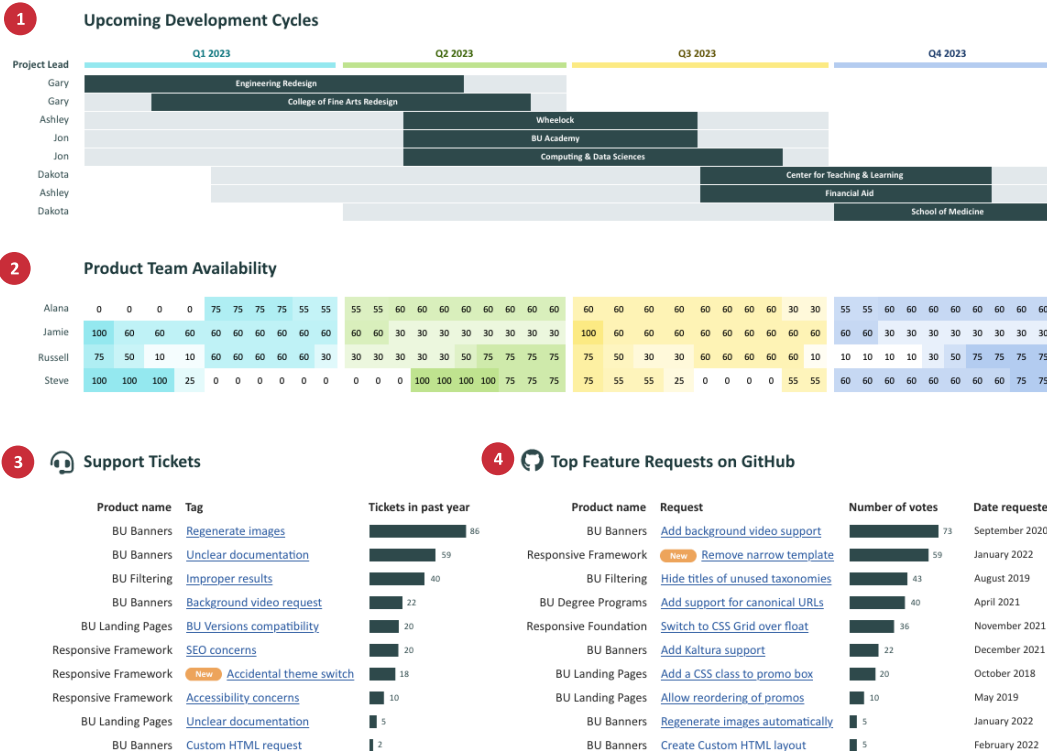
Top Feature Requests on GitHub

| Product name | Request | Number of votes | Date requested |
|-----------------------|---|-----------------|----------------|
| BU Banners | Add background video support | 73 | September 2020 |
| Responsive Framework | New Remove narrow template | 59 | January 2022 |
| BU Filtering | Hide titles of unused taxonomies | 43 | August 2019 |
| BU Degree Programs | Add support for canonical URLs | 40 | April 2021 |
| Responsive Foundation | Switch to CSS Grid over float | 36 | November 2021 |
| BU Banners | Add Kaltura support | 22 | December 2021 |
| BU Landing Pages | Add a CSS class to promo box | 20 | October 2018 |
| BU Landing Pages | Allow reordering of promos | 10 | May 2019 |
| BU Banners | Regenerate images automatically | 5 | January 2022 |
| BU Banners | Create Custom HTML layout | 5 | February 2022 |

Finalized Dashboard Design

Justification & Techniques

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Note: this dashboard contains fictional data and is only intended to demonstrate what I've learned in this class.

Charts & Techniques Used

- 1 A gantt chart quickly demonstrates how upcoming development cycles align with each quarter (Ferdio, 2018). The color palette assigned to quarters uses soft tones, while darker emphasis colors are reserved for data and the "new" tag (Few, 2013). The project lead is listed to assist the product manager in identifying which stakeholders will be directly affected by the roadmap.
- 2 A set of heatmaps reduces the cognitive load to understand which product team members are available for each week of each quarter (Knaflig, 2015). This information allows the project manager to make quick decisions about feature feasibility and alignment with development cycles. The color scales match each quarter above, removing the need for repeated labels.
- 3 A table of support tickets shows priority themes in customer feedback by displaying a list of the most frequently used ticket tags, and the number of tickets assigned to that tag in the past year, from most to least. Direct links to each tag allow the product manager to dig deeper and scan individual ticket titles. Following best practices, the most critical information in the table uses an inline chart (Wong, 2013).
- 4 A table is also used for feature requests to make comparison with support tickets easier, and give both types of data equal footing. To help prevent confusion of these two very similar looking tables, an icon is added to the title to help differentiate the data sources visually.

References

Ferdio. (2018, January 11). *Gantt Chart*. Data Viz Project. <https://datavizproject.com/data-type/gantt-chart/>

Few, S. (2013). *Information dashboard design: displaying data for at-a-glance monitoring* (2. ed). Analytics Press.

Knafllic, C. N. (2015). *Storytelling with data: a data visualization guide for business professionals*. Wiley.

Wong, D. M. (2013). *The Wall Street journal guide to information graphics: the dos and don'ts of presenting data, facts, and figures*. Norton.