

Kaiāulu React: : CHEAT SHEET



About

This cheat sheet showcases Kaiāulu React’s capabilities in displaying project painpoints with communication, collaboration, and code design.

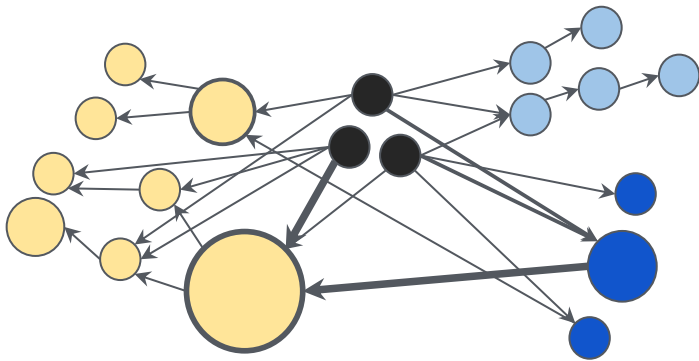
Configuration File

Kaiāulu React requires one or more networks of code artifacts (files), communication (mailing list), issue tracker (e.g. JIRA, GitHub), and developers (e.g. authors, committers).

The data can be mined using sailuh/kaiaulu, and its paths are specified on sailuh/kaiaulu_react/kaiaulu.yml configuration file. Users can version different project configurations for easy swaps.

Landing Page

The landing page features an interactive *Network Graph* which displays collaboration, communication, and code dependency relationships.



The project of interest is displayed as nodes and edges. Users can choose any metric via Kaiāulu to represent the weight and label of both nodes and edges, reflecting their size.

By illustrating weight *visually*, developers can immediately identify significant or potentially problematic areas of their project.

Data Types

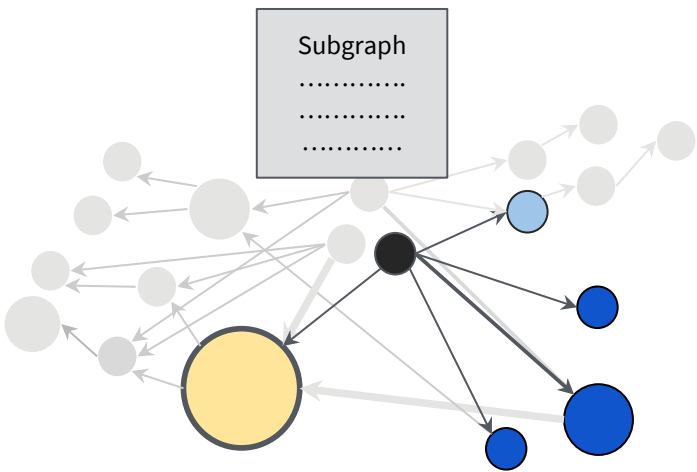
Data may contain one or more of:

- **People** – the developers.
- **Files** – the code artifacts.
- **Mail** – email replies.
- **Issues** – issue comments.

Users may also select other equivalent data types (e.g. Discord instead of mail) if they use the same data format, as the metrics are defined over the data.

Subgraph Highlight

Developers may select nodes of interest and create a *highlighted subgraph* that is accompanied by a panel containing further information about the nodes and relationships present in the subgraph.

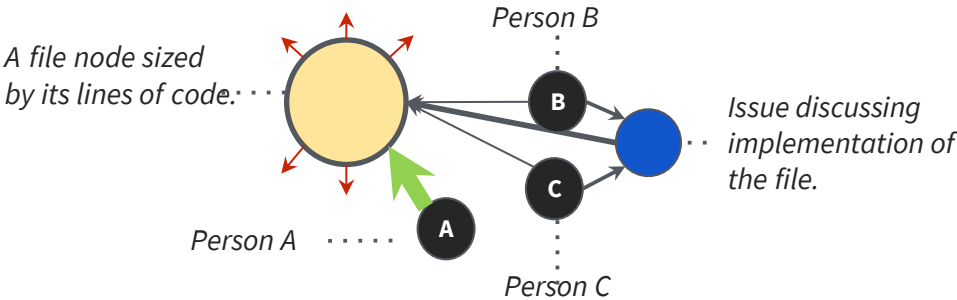


Developers may also search for specific nodes and set filters to refine the data shown on the Network Graph.

Enter node label	Search	Filters ▾
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Example

Consider the following network graph...



Developers can immediately identify parts of the project that warrant additional attention by visual weight, which can be set to scale nodes and relationships by metrics of interest.

e.g. “this **file** has **a lot of code** and.. it appears that **Person A** is a **major contributor**, but they are **not** a part of the **discussion** on the **issue**.”

or.. “this **file** has **a lot of dependencies**. Could we perhaps split up it up and separate its concerns?”

