Graphical Object Layout and Language Editor

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Two Sigma
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Features

- Automatic layout
- Make manual adjustments to layout
- Backend interchangeable
- Stamp out similar objects with templates
- Vertices can contain nested subgraphs
- Style with CSS-like GOLL-E Style Language
- Write graph in intuitive GOLL-E Content Language
- Over 85% test coverage and high code quality control.
- Open source and available on GitHub
- Useful for a wide range of data visualization applications.

What went well

- Requirements were clear up front.
- Held testing and code quality and documentation to high standards to make it easier for others to pick up where we left off.
- Implemented good foundation and core features.

What we had trouble with

- Deciding on which visualization framework to use.
- Balancing committed project hours with other classes.
- Estimating our available time.
- Learning to use JIRA with agile.

Scrum
- Two week sprints
- Daily standups

Two Sigma
- Requirements
- Clarity with sponsor
- Product backlog
- Code Review
- Design
- Developed, implemented
- Demo & Release

React

Preprocessing, Lexing & Parsing
Data Models
Layout Language Generator

Tison

GOLL-E

Content Language

//Web browser example
screen image

vertex Alpha {
input dataIn
output dataOut
attribute "status": "good"
class "server"
}

vertex Beta
edge dataFlow Beta -> Alpha.dataIn

Style Language

.server {
color: turquoise;
}

Alpha {
width: 500;
height: 200;
}

Layout Language

Alpha 300 200
Beta 100 500
Alpha.dataIn W 50%
Alpha.port2 E 30%

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