Code flow canvas

A generic visual programming system

Who am I?

- Maikel van de Lisdonk
- Freelance software developer focusing on front-end

Working on code flow canvas for the last 2 years in my spare time

Strongly believes that an interactive picture says more then a 1000 lines of code...

What is code flow canvas?

Generic visual programming system

- Generic in a sense that:
 - Different visual programming languages with different implementations can be build on top of it
 - Can be used together with and in other code-bases (typescript/js for now)
 - Extendable
- Based on the node and wire model

Goals for code flow canvas

 Visually and interactively explain how software algoritms or application logic transform input to output

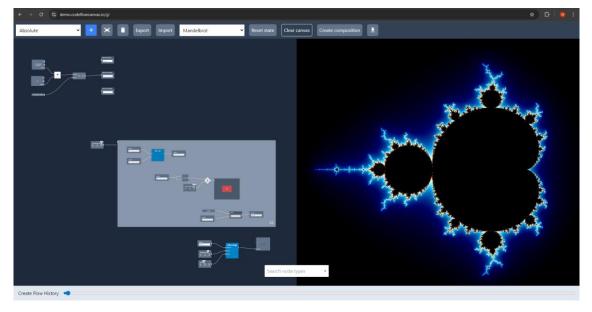
 To build data processing pipelines and show how data flows through an application

- Use visual programming in existing code-bases
 - have less visualizing of code and data structures in your head
 - and see the impact of changes in a code-base ... live

Code flow canvas quick first look

2 implementations based on the same infinite canvas editor





Logic computational model in a traditional web environment

All nodes are functions and the engine calls these functions from javascript in the browser

Visual live program environment for building a gpu pixel shader

DEMO

Highlighted functionality in the demo

- Timeline
- Export flow to typescript
- Escape hatches

- Compositions
 - Reusable in a flow
- Replace selected node with compatible node-type
- Insert compatible node-type in selected connection

Links and contact

- Demo.codeflowcanvas.io
- Demo.codeflowcanvas.io/gl no user-account or login needed,
- Github.com/devhelpr/code-flow-canvas
- Github.com/devhelpr/live-2024/presentation.pdf
- https://youtube.com/@codeflowcanvas
- Contact info:
 - Future of coding slack: @maikel
 - maikel@devhelpr.com

Thanks for watching!