



# **Fluid Infusion: Enabling Next-Generation Personalization**

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# Rethinking Disability



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A **mismatch** between the

**user**

and the

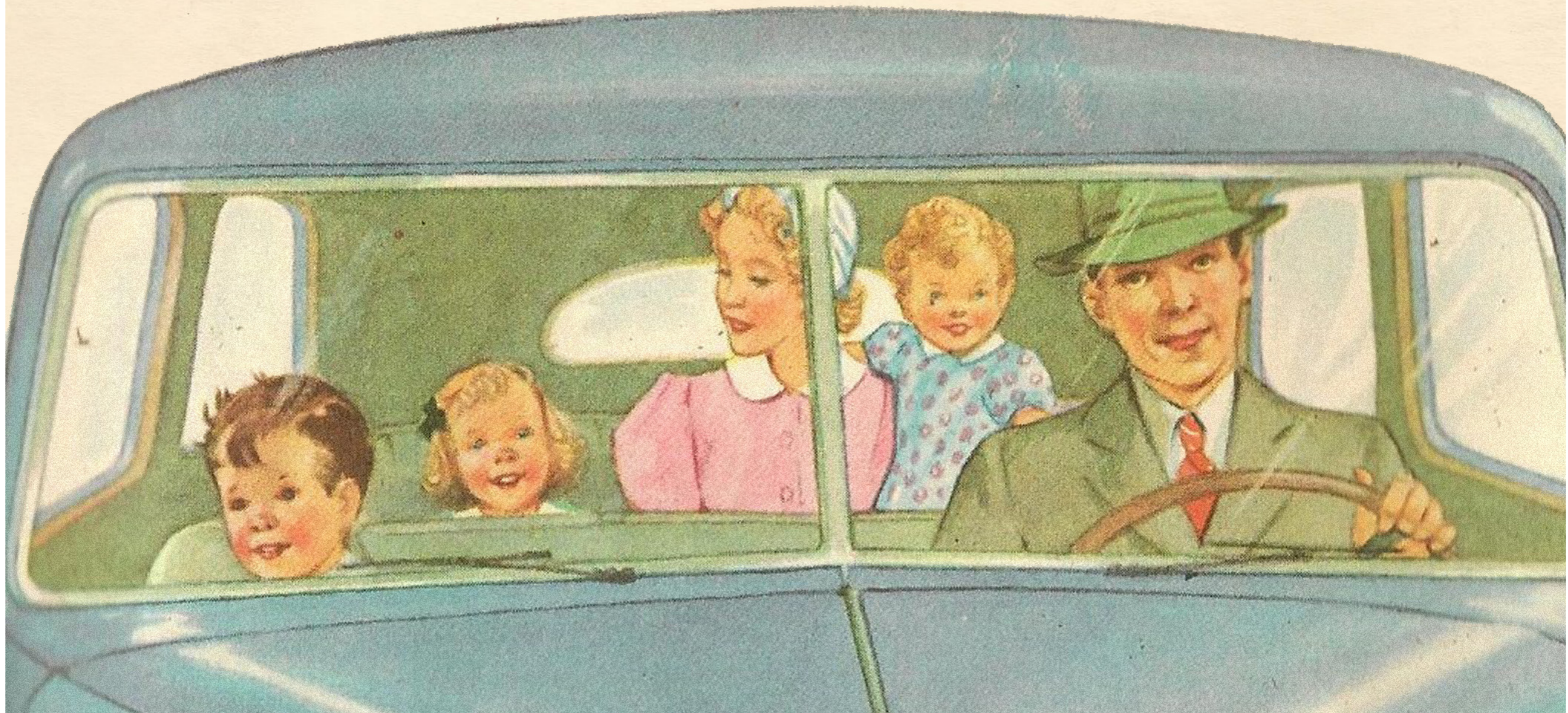
**user interface**

# Accessibility is...

the ability of the system

to accommodate the needs of the user

Are you typical?



# Make yourself at home...



# One Size Fits One

- **User interfaces** that can adapt to the needs, preferences, tastes of users—feel at home
- **Content that fits**—delivered in a form that learners can understand and use



# Global Public Inclusive Infrastructure



<http://youtu.be/YHXSUWQvV39k>

# Problems & Needs

The Internet is **no longer optional**, but many can't use it.

Computers are **everywhere**, but accessibility isn't.

The assistive technology market is **stagnant**.

The **cost** of assistive technology is unsustainable.

We are in a new era of **cross platform diversity**.

# GPII in a Nutshell

- Discover, edit and refine needs and preferences
- Securely store and share in the cloud
- Automatically personalize desktop, mobile, and web
- Get help when you need it (assistance on demand)
- Reduce the cost and complexity of developing accessible software



# fluid\*

An open community for designers, users, accessibility folks, and all the other people who don't usually fit into open source.

[fluidproject.org](https://fluidproject.org)



Tools and advice for creating personalized,  
inclusive open educational resources.

[floeproject.org](https://floeproject.org)

# fluid\*

1. Contribute to open web accessibility
  - ARIA, Dojo, jQuery
2. Share documentation, resources, and advice
  - Mozilla Developer Network
  - Design Handbook
3. Address systemic software development problems



infusion





1. Framework for building personalizable web apps
2. Collection of UI components you can use and adapt
3. An approach and way of thinking about development

# infusion is declarative

- The *what*, not the *how*, of your program
- You write programs as JSON documents, not code
- **Why?** Data can be easily parsed, manipulated transformed, saved, authored, and edited by people and programs
- That means your program can be changed by other developers and, increasingly, by users

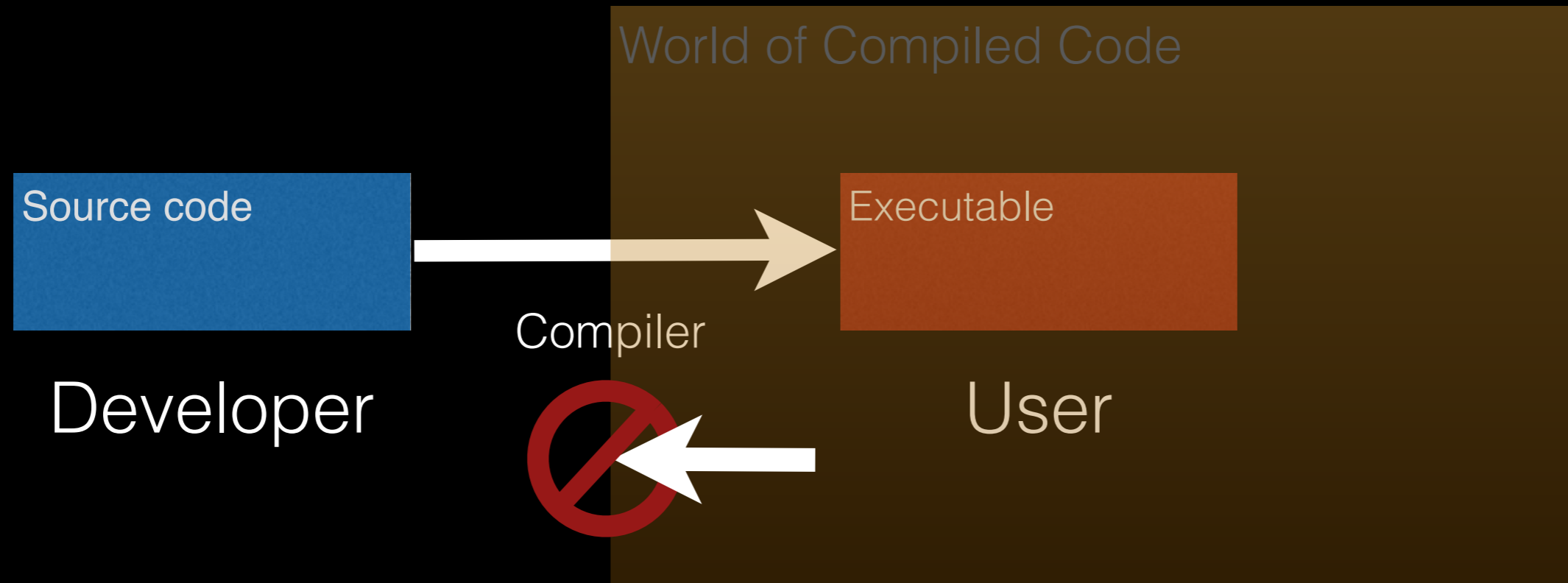
# infusion is reusable

- Even open source code is a problem
- To change code, you need to fork it
- For marginal, unusual, extreme, or awesome changes, these are often rejected or ignored
- Infusion lets you change code without changing it
- Programs can merged and unmerged from the outside

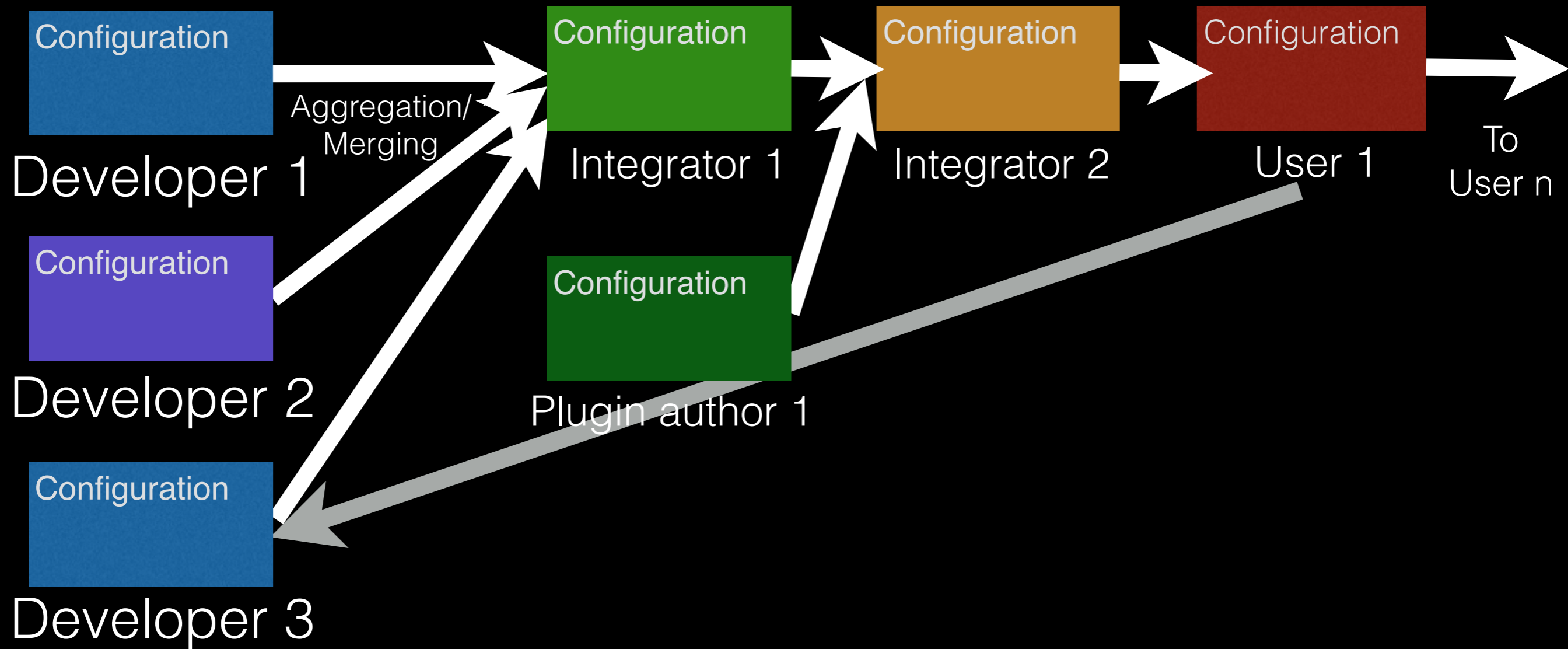
# infusion is open

- The conventional wisdom of object orientation and MVC is to hide everything
- Accessibility is all about exposing useful model information so we can represent it
- Models in Infusion are *transparent* and mediated by change events that anyone can listen to

# A Closed Graph of Creators



# An Open Graph of Creators



# infusion is open source

- Licensed under the BSD and ECL (Apache) license
- An open and welcoming community for contributors
- Mailing lists, wiki, IRC, Github and other public forums

[github.com/fluid-project/infusion](https://github.com/fluid-project/infusion)

# Questions?

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