

# Designing Realtime Web Apps

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**How helpful was this talk for you?**

**Do today's web apps support real-time decisions better than the technologies they replaced?**

**We're just catching up to the  
capability of our tools**

## THE TAKEAWAY

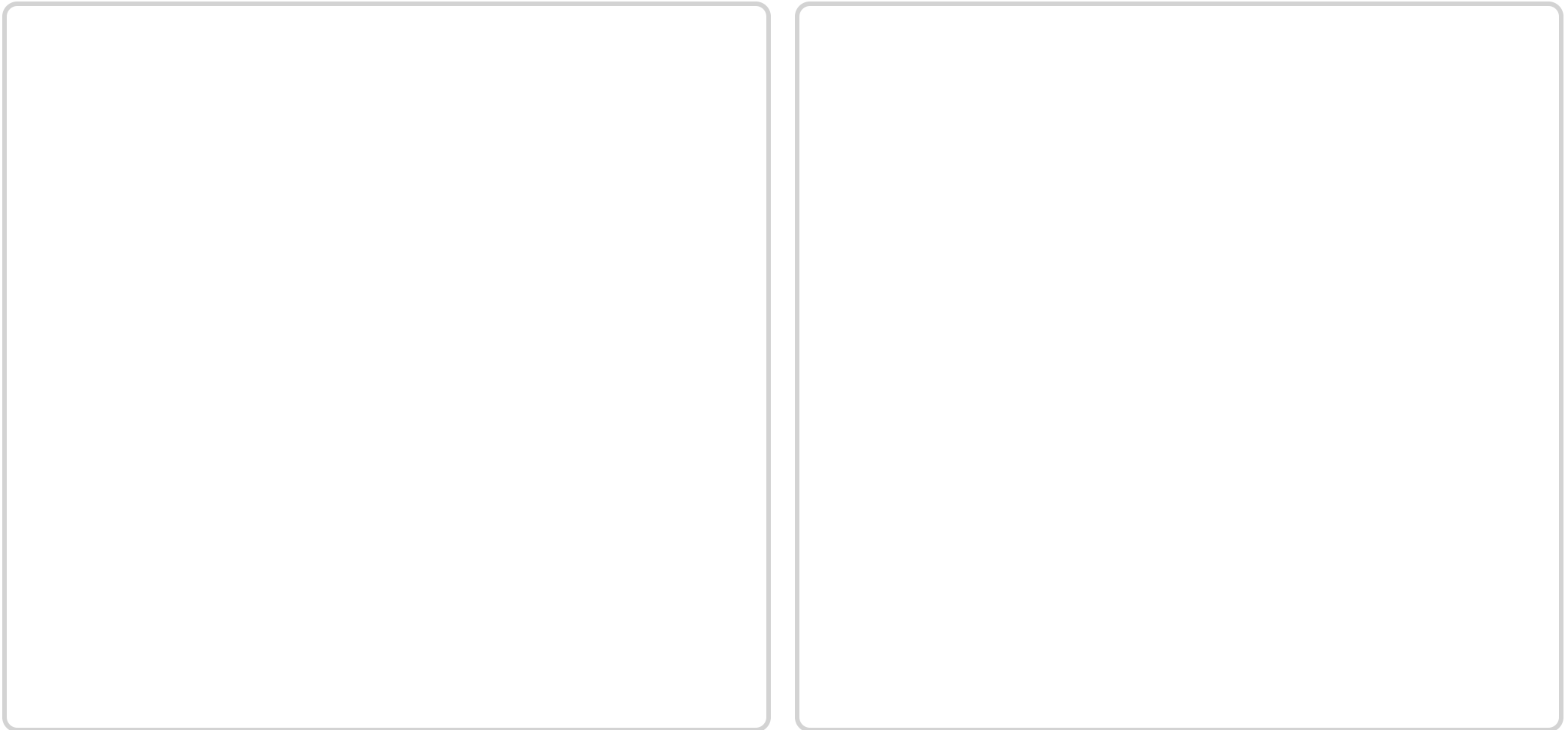
**Realtime user experiences require end-to-end solutions.**

# The state of real-time web applications

**PROBLEM:**

# Scarce Resources

## Example - low inventory on a commerce page





**What are the problems here?**

## One potential solution

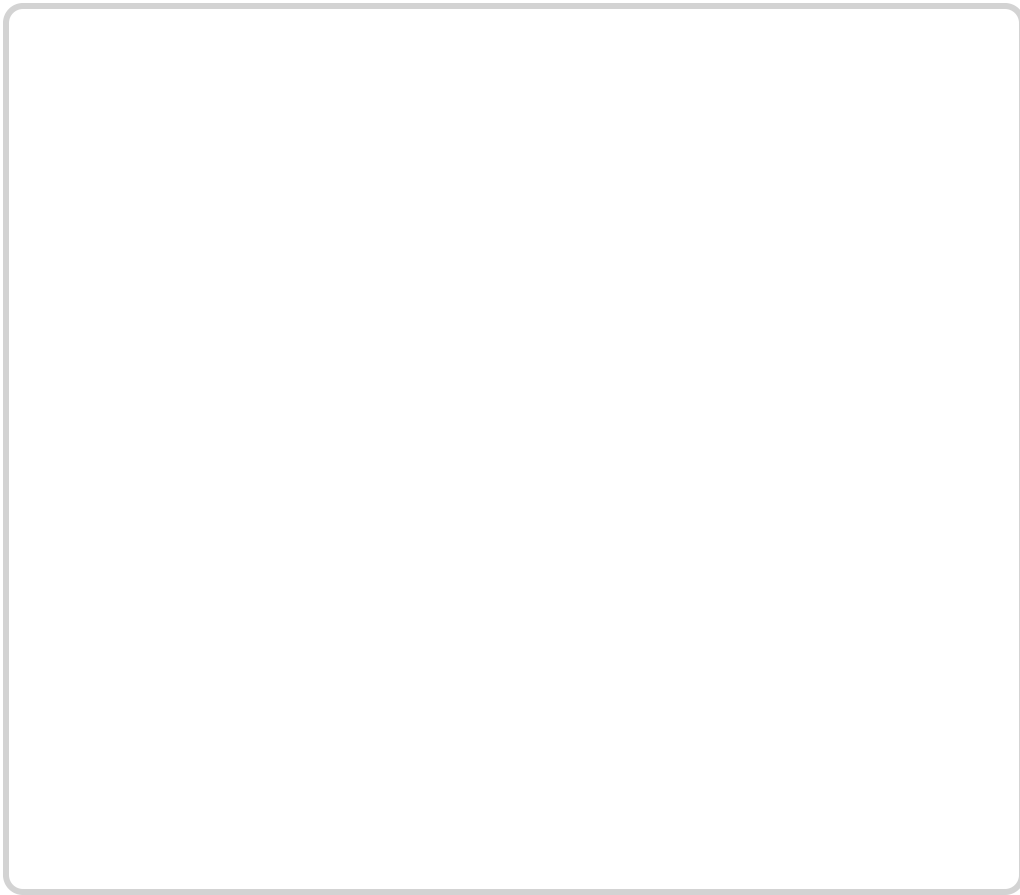
WHY IS THIS BETTER?

**Exposes the state of things to the user**

**PROBLEM:**

**Rapid influx of data**

# Example



**What are the problems here?**

## One potential solution

WHY IS THIS BETTER?

**Considers the intent of the data**



# But wait, there's more!

- Seamless Session Handoff Between Devices
- Collaborative Editing/Drawing
- Handling Disconnects Gracefully
- Managing Notifications Across Multiple Connected Devices
- Integrating IoT and Other Non-web Events
- Dynamic Maps and Location Based Services
- Paging Data

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# Web technologies, revisited

# The case for something different

- Elixir, Phoenix, and LiveView
- Ruby, Rails, and Hotwire
- PHP, Laravel, and Livewire
- next.js and SSR React
- .NET and Blazor

# Keys to the technology decision

ONE FINAL CONSIDERATION

# The Real-time Uncanny Valley

## Quick setup — if you've done this kind of thing before



Set up in Desktop

or

HTTPS

SSH

git@github.com:tmecklem/my-game-changing-new-project.git



Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

## ...or create a new repository on the command line

```
echo "# my-game-changing-new-project" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:tmecklem/my-game-changing-new-project.git
git push -u origin main
```



## ...or push an existing repository from the command line

```
git remote add origin git@github.com:tmecklem/my-game-changing-new-project.git
git branch -M main
git push -u origin main
```



## ...or import code from another repository

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

OUR ADVICE:

**Avoid the Uncanny Valley**



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# Questions?

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