

Frontend & Beyond

Crafting Videos with Remotion and AI



Learn how to create stunning videos programmatically with React, Remotion, and AI. Live demos included.

About the presenter



Sergii Sokurenko ✓

Full-Stack Product Developer • Frontend Specialist in React •
Cloud AWS, Azure • UI/UX/DX
Greater Calgary Metropolitan Area • [Contact info](#)





Questions for the Audience

1

Who knows React?

Raise your hand if you've built something with React before

2

Who has a YouTube channel?

Any creators in the room? Even one video counts!

3

Who has tried Remotion?

Have you ever coded a video with React?

4

Who edits videos manually?

Spending hours in Premiere or DaVinci Resolve?

5

Who wants to automate content creation?

Imagine generating 100 videos with a single script 🤖

6

Who has used AI to make something cool?

ChatGPT, Midjourney, Veo... anything goes! ✨

Video Is the Medium of Now

82%

Prefer Video

of internet traffic will be video (Cisco)

3x

More Engagement

Video posts generate 3x more engagement than text

60%

Faster Recall

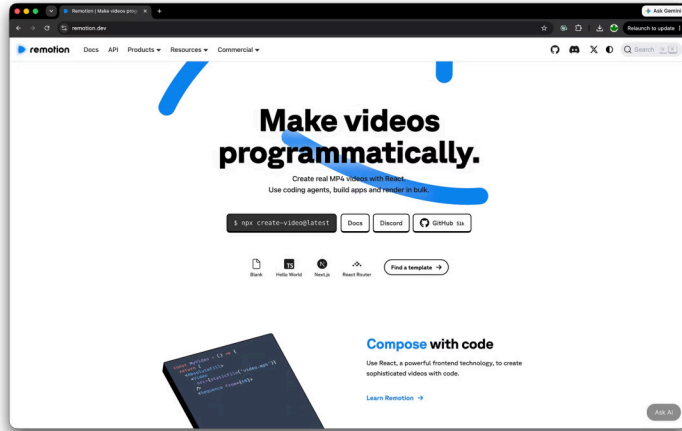
Viewers retain 60% more info from video vs. text

\$16B

Market Size

Programmatic video tools market projected by 2027

What Is Remotion?



Remotion is an open-source framework that lets you create videos using React. Instead of a traditional video editor, you **write components** — and **Remotion renders them frame by frame into a real video file**.

React-Based

Every frame is a React component

Programmatic

Generate videos dynamically from data

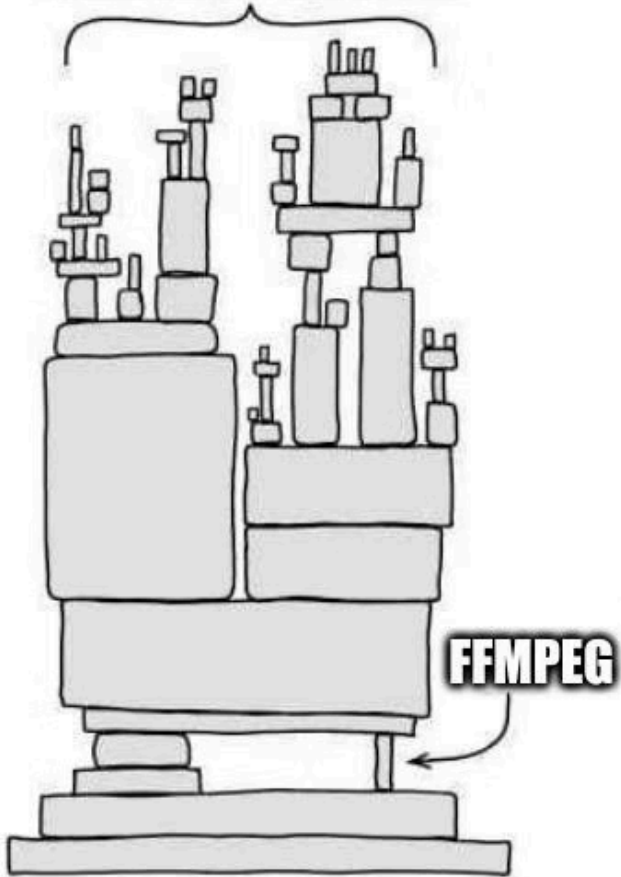
Export-Ready

Render to MP4, GIF, or PNG sequences

Cloud Rendering

Remotion on Vercel

**EVERY VIDEOS
STREAMING SERVICES**



imgflip.com

FFmpeg: The Video Engine Behind Remotion

Behind Remotion's elegant React interface lies a powerful open-source tool that makes it all possible: FFmpeg.

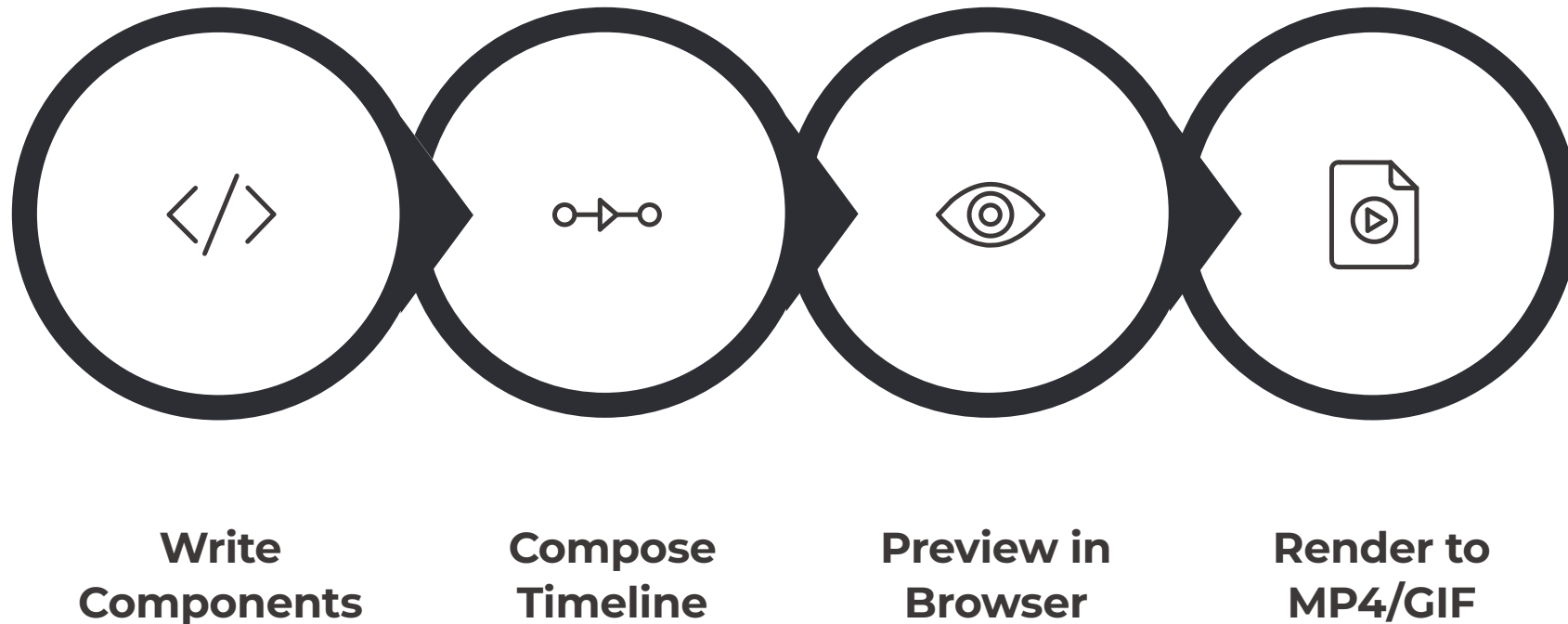
Open-Source Powerhouse

FFmpeg is a leading multimedia framework for processing audio and video files. Created by Fabrice Bellard, it handles countless formats and codecs with robust command-line tools.

Remotion's Secret Sauce

Remotion leverages FFmpeg to efficiently compile its React-generated frames into final, high-quality video files such as MP4, WebM, and GIF sequences.

How Remotion Works



Remotion runs a headless browser to render each frame of your video. Your React components receive the current frame number as a prop, so you can animate, transition, and sequence content just like you'd build a dynamic UI — then export the result as a real video file.

Your React Skills Transfer Directly

Components

Reusable video scenes as React components — props control content, timing, and style

Hooks

`useCurrentFrame()`, `useVideoConfig()` — familiar patterns for timeline logic

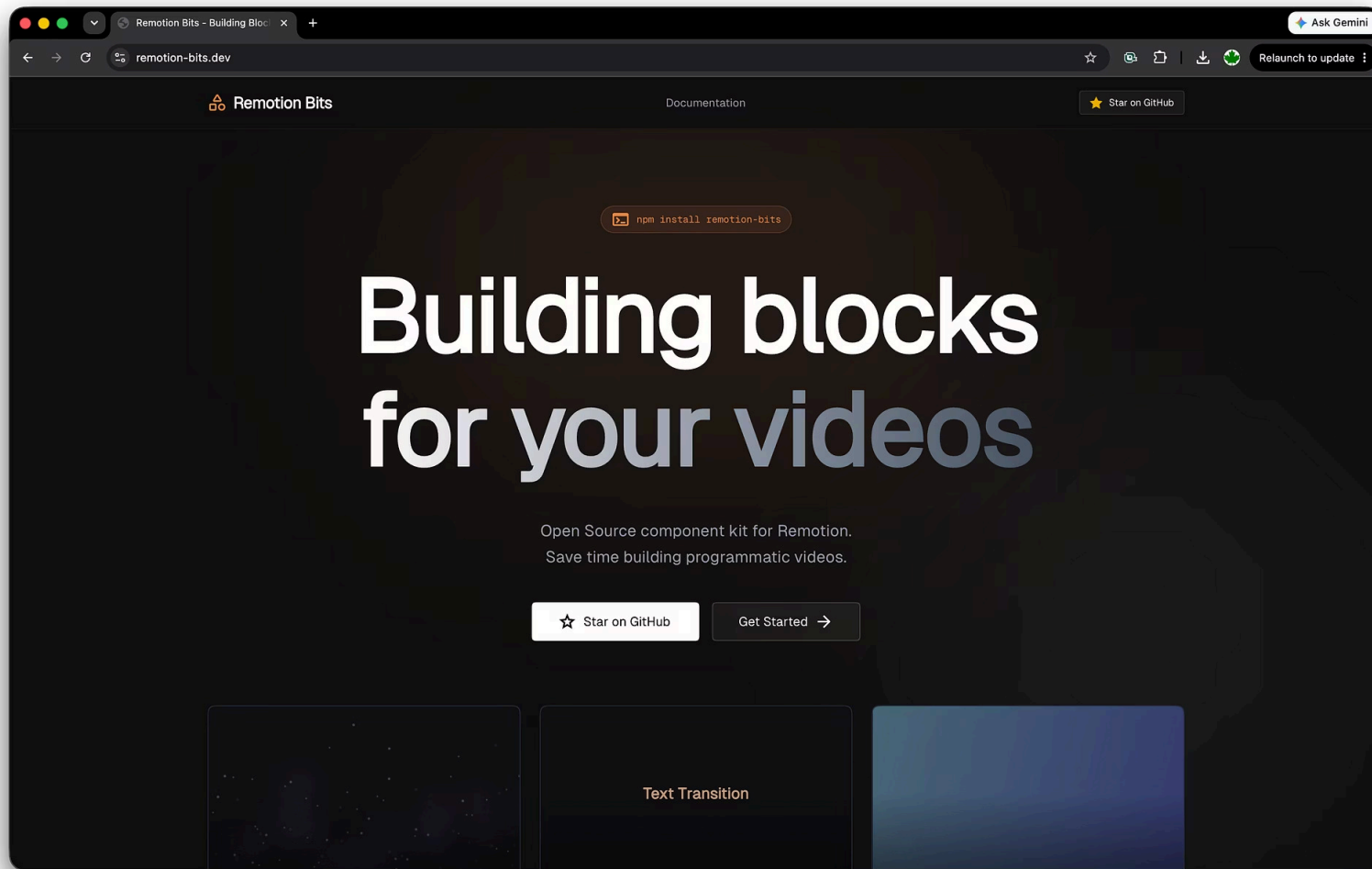
CSS & Animations

Styled-components, Tailwind, Framer Motion — all work inside Remotion compositions

State & Data

Feed videos from APIs, JSON, or CMS data — generate hundreds of personalized videos



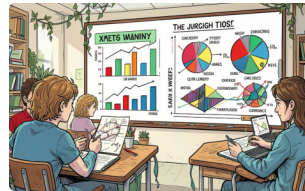


What You Can Build



Social Media Content

Short-form videos, reels, and stories — generated at scale from templates



Explainer Videos

Turn data and docs into animated explainers automatically



Personalized Marketing

Thousands of unique videos per user, driven by CRM or audience data



Dynamic Highlights

Auto-generate recap videos from live data feeds or event logs

AI-Powered Video Workflows

Pair Remotion with AI tools like **Claude Code** to accelerate production:

→ Generate Scripts

Use LLMs to write video copy, then map it to component timelines

→ Scaffold Components

Claude Code can write Remotion components from natural language descriptions

→ Auto-Translate

Generate localized video versions by feeding translated text into the same template





DEMO TIME

During this presentation, a Remotion project was generated live on a randomly chosen topic:

Learning French for English Speakers

Using **Claude Code + Remotion**, a fully functional programmatic video was scaffolded from scratch — components, animations, and all — in real time.



View the Source Code

The full project is available on GitHub:

github.com/ssokurenko/remotion-frontend-meetup-demo

Brainstorm: What Could You Build?



Data Storytelling

Weekly KPI videos auto-generated from your analytics dashboard



Onboarding Flows

Personalized product walkthroughs based on user role or plan



News Summaries

Daily digest videos from RSS feeds or CMS content



YouTube Automation

Template-driven channels with consistent branding at scale



E-commerce Reels

Product highlight videos generated from catalog data



Event Recaps

Conference or meetup summary videos from speaker data and photos

Key Takeaways & Q&A

1 Video is code

If you can build a React UI, you can build a video

2 Remotion is production-ready

Used by Vercel, Shopify, and many more at scale

3 AI accelerates everything

Claude Code + Remotion = rapid video prototyping

Resources

- <https://www.remotion.dev> — docs, examples, and templates
- <https://remotion-bits.dev>—Video components
- <https://github.com/hexgrad/kokoro> - Generate text to speech locally on your machine
- <https://github.com/ssokurenko/podcast-forge> - Starter project for creating own podcasts
- <https://github.com/ssokurenko/remotion-frontend-meetup-demo> - Demo project