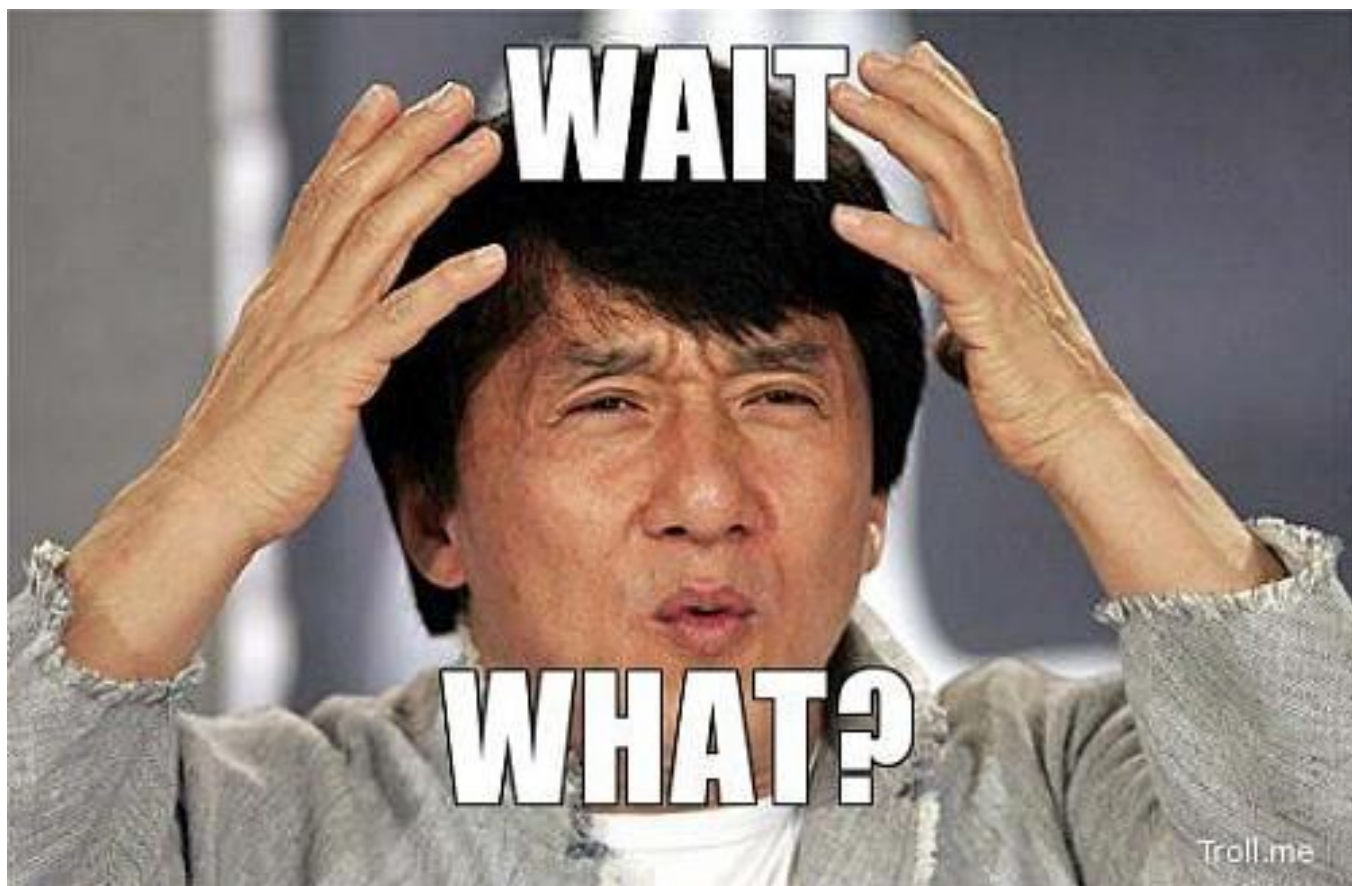


# Create videos... with React!



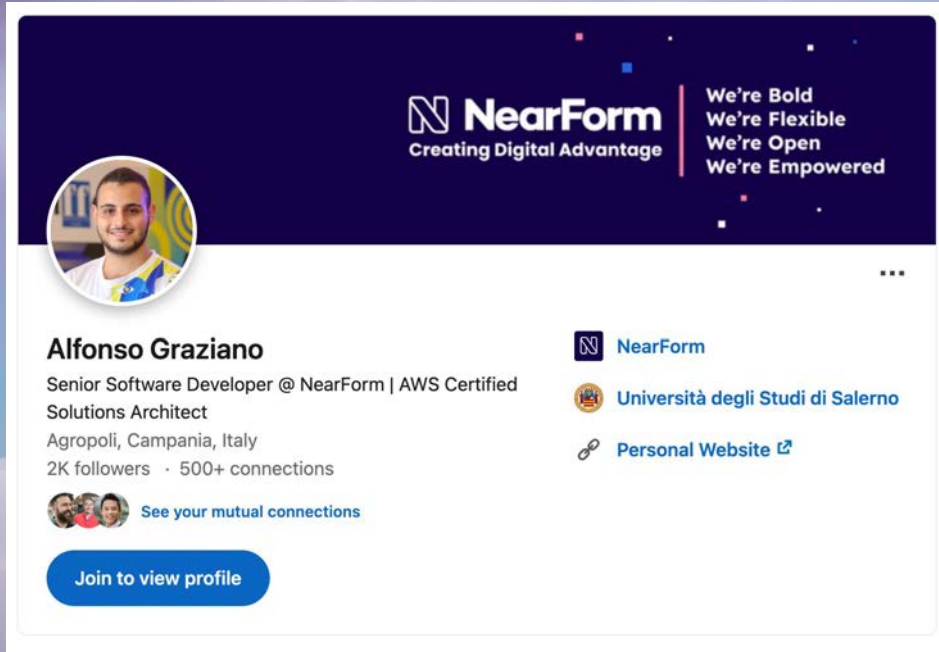
# How to create videos programmatically using React

---

...and how to create a scalable cloud-based [Rendering Farm](#)

---

# About me



A screenshot of a LinkedIn profile card for Alfonso Graziano. The card has a dark blue header with the NearForm logo and tagline 'Creating Digital Advantage' on the left, and the company's values 'We're Bold, We're Flexible, We're Open, We're Empowered' on the right. Below the header is a circular profile picture of Alfonso Graziano. The main content area is white and contains his name, title 'Senior Software Developer @ NearForm | AWS Certified Solutions Architect', location 'Agropoli, Campania, Italy', and statistics '2K followers · 500+ connections'. To the right of this information are links to 'NearForm', 'Università degli Studi di Salerno', and 'Personal Website'. At the bottom left, there is a button that says 'Join to view profile'.

**NearForm**  
Creating Digital Advantage

We're Bold  
We're Flexible  
We're Open  
We're Empowered

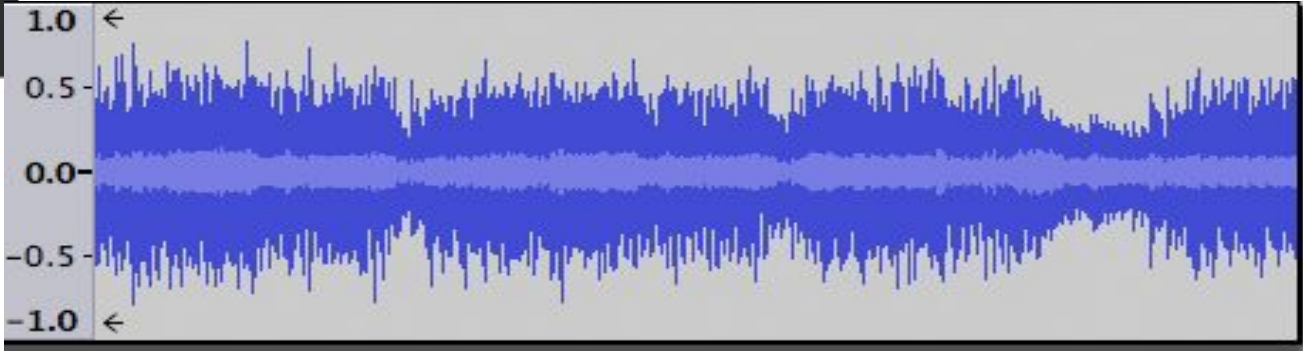
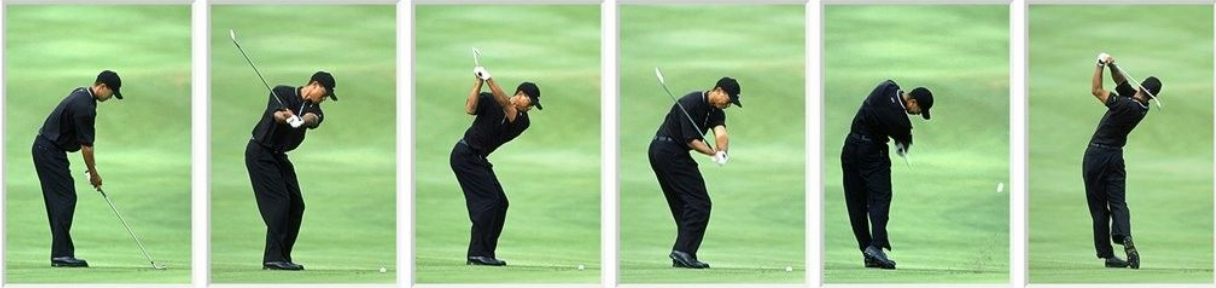
**Alfonso Graziano**  
Senior Software Developer @ NearForm | AWS Certified  
Solutions Architect  
Agropoli, Campania, Italy  
2K followers · 500+ connections

[NearForm](#)  
[Università degli Studi di Salerno](#)  
[Personal Website](#)

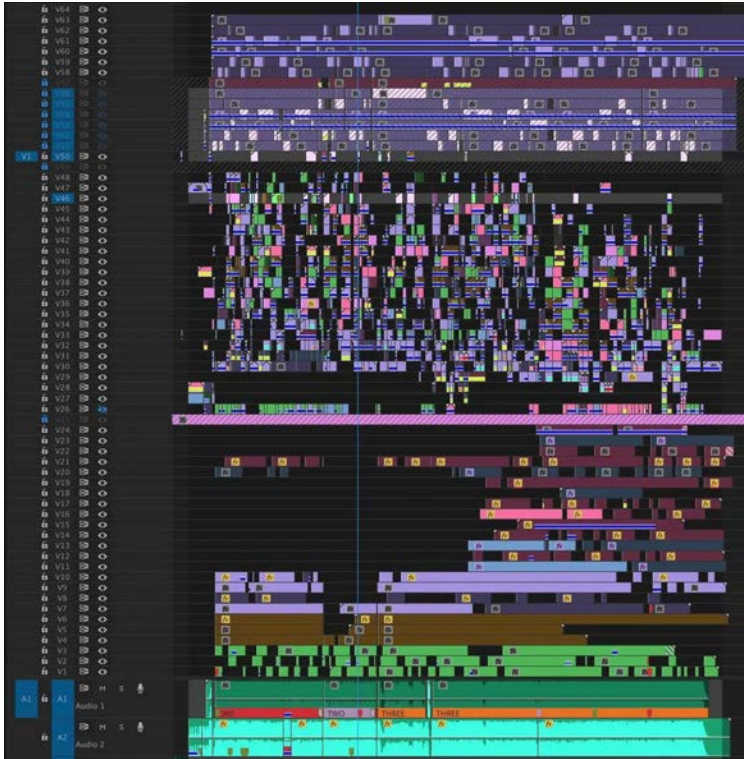
[See your mutual connections](#)

[Join to view profile](#)

# What is a video?



# How editing tools works?



We will do something simpler..





# Remotion is a React library to make videos programmatically

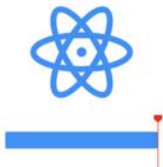
## Build video apps

Use our suite of tools to build apps that lets others create videos.

YOU ARE HERE

### Remotion

Make videos programmatically



Use the Web to create graphics

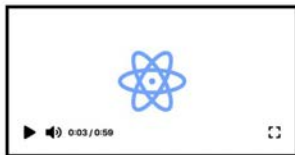
Consume user input and APIs

Render real MP4 videos

[Read docs](#)

### Remotion Player

Embeddable interactive videos



Preview videos in the browser

React to user input

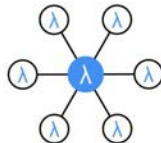
Customize look and behavior

[Learn more](#)

[Read docs](#)

### Remotion Lambda

Render at scale



Render videos in the cloud

Scale according to your volume

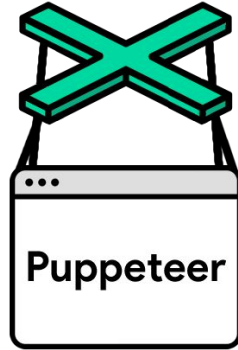
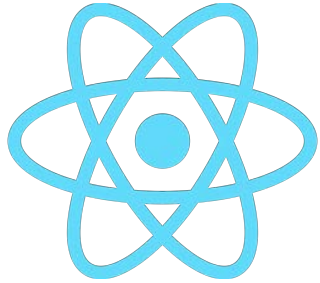
Fast because distributed

[Learn more](#)

[Read docs](#)



## How does it works?





# Potential use cases? 🤔



**Parameterized  
videos**



**Automated  
video  
workflows**



**Cloud-based  
Video SaaS**

# Let's see an example



# This is the source code

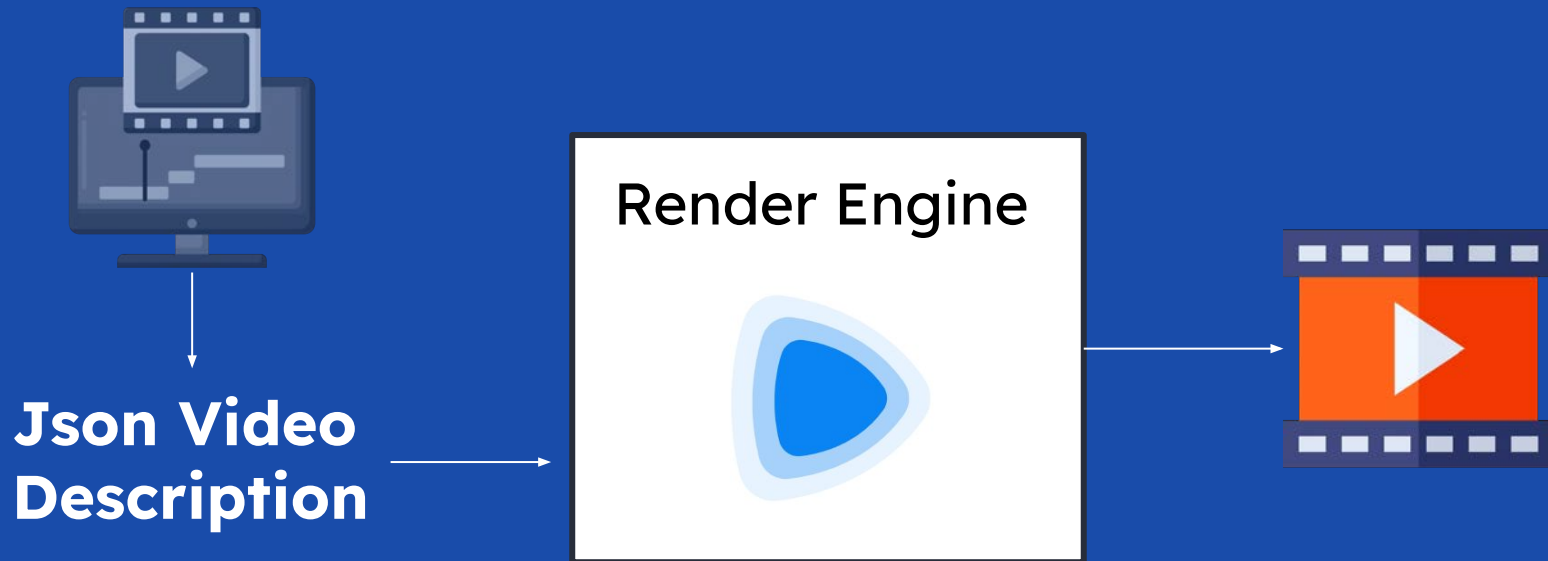
```
10 export const defaultRenderDescription: RenderDescription = {
11   settings: {
12     name: 'Project 1',
13     format: {
14       width: 1920,
15       height: 1080,
16       fps: FPS,
17     },
18   },
19   timeline: {
20     tracks: {
21       video: [
22         {
23           id: 'video-track-0',
24           index: 0,
25           assets: [
26             {
27               id: 'video-asset-0',
28               type: 'video',
29               src: 'https://create-videos-demo.s3.eu-west-1.amazonaws.com/video-asset-0.mp4',
30               startAtFrame: 0,
31               durationInFrames: 20 * FPS,
32             },
33           ],
34         },
35         {
36           id: 'video-track-1',
37           index: 1,
38           assets: [
39             {
40               id: 'spongebob-photo',
41               type: 'image',
42               src: config.profilePhoto,
43               startAtFrame: 0,
44               durationInFrames: 20 * FPS,
```

```
45     style: {
46       width: '650px',
47       height: '650px',
48       display: 'block',
49       marginLeft: 'auto',
50       marginRight: 'auto',
51       borderRadius: '50%',
52       border: '20px solid red',
53       boxShadow: '0px 0px 50px -9px rgba(0,0,0,0.4)',
54     },
55     dynamicStyle: {
56       marginTop: [[0, 100, 101], [1500, 100, 100]], 'px'],
57     },
58   ],
59 },
60 },
61 {
62   id: 'text-track-1',
63   index: 1,
64   assets: [
65     {
66       id: 'happy b-day',
67       type: 'text',
68       text: 'Happy Birthday, ' + config.name + '!',
69       startAtFrame: 3 * FPS,
70       durationInFrames: 17 * FPS,
71       style: {
72         fontWeight: 'bold',
73         color: 'white',
74         display: 'block',
75         marginLeft: 'auto',
76         marginRight: 'auto',
77         marginTop: '800px',
78         fontFamily: 'Dancing Script',
79       },
80       dynamicStyle: {
```

# Remotion is quickly evolving and Production-Ready!



# The intuition 🤖



# Let's build a Render Engine!

---



<https://github.com/alfonsograziano/create-videos-with-react-talk>

# How to render @ scale?



Render **locally**  
using a pool  
of machines

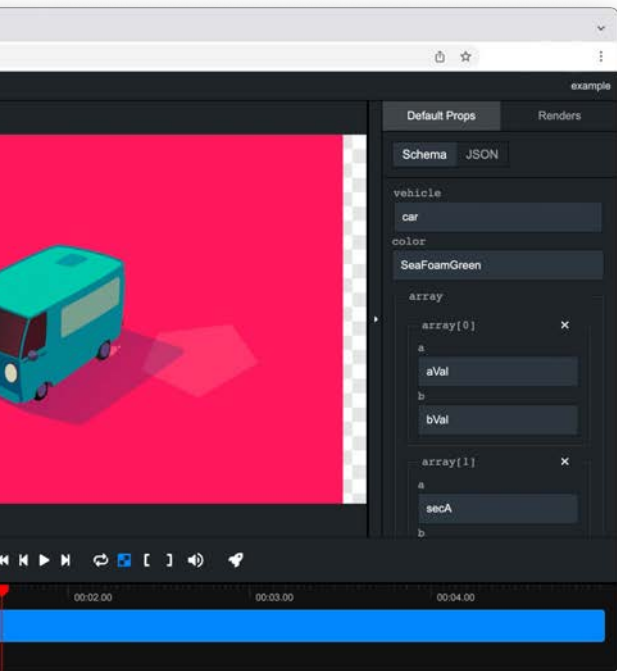


Render on **Lambda!**\*

\* only for video less than 30 minutes



# We have a challenge! 🏆



Checkout the repo

Customize the project

Share your first video!

# NearForm

## Global Delivery Org 180+ and counting

117 Western Europe

28 Eastern Europe

20 North America

20 South America

## Sales and Marketing

25 EMEA

4 North America

## Leadership and Shared Services

26 EMEA

2 North America

## Major Contributors to the Open Source Web Platform

NPM monthly downloads

800M

Represents modules used globally

8%

Code in v10 written by NearForm

30%

Core Contributors to React Native



**Questions?**



WE'RE BOLD  
WE'RE FLEXIBLE  
WE'RE OPEN  
WE'RE EMPOWERING

United States: (916) 299-6882  
International: +353 51 330 290  
United Kingdom: 0870 067 95569  
Ireland: 051 330 290

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[sales@nearform.com](mailto:sales@nearform.com)



 **NearForm**