

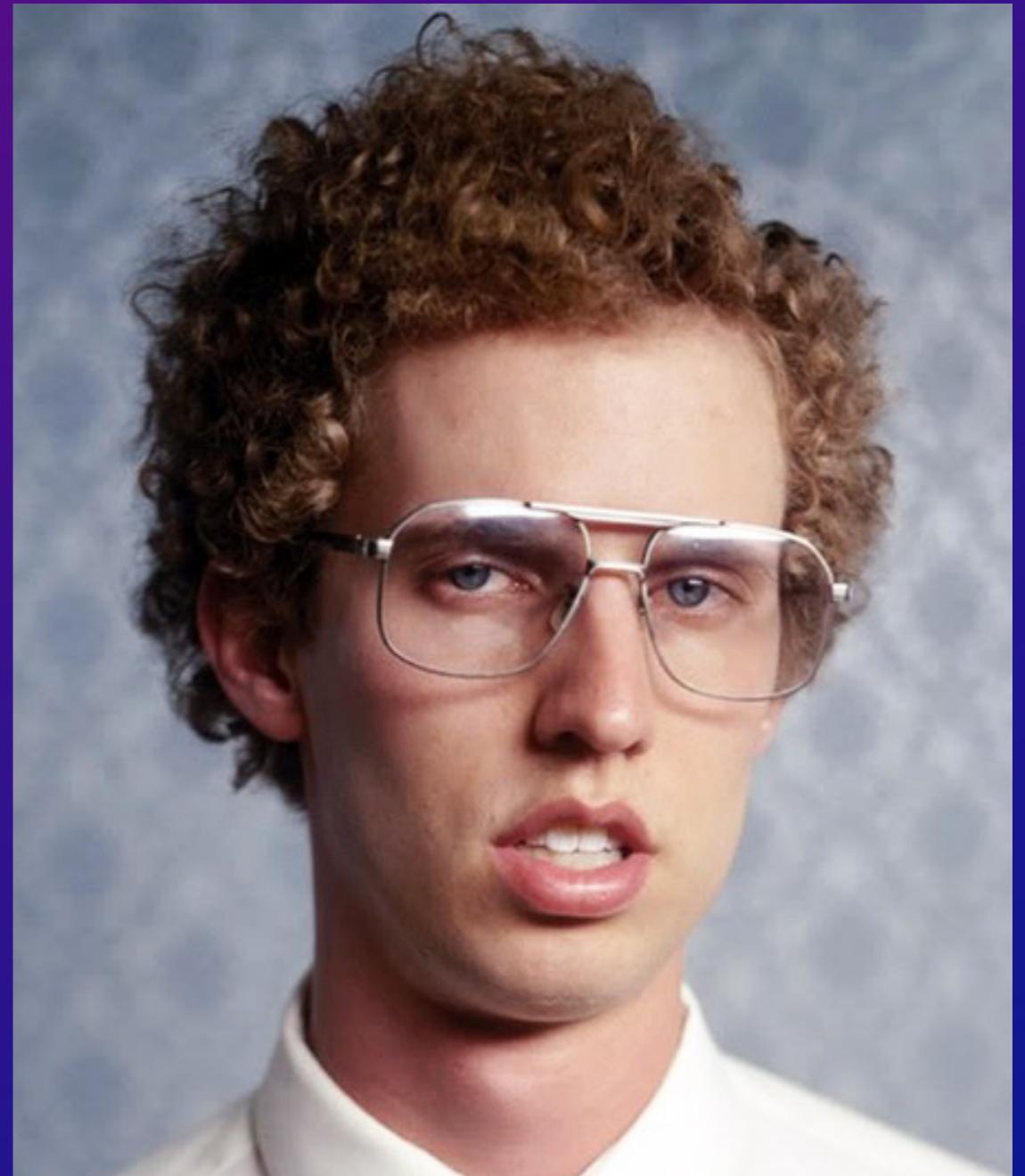
# Welcome Hackers!

A bright future ahead

# Why learn coding?

# Meet John

- Learned to code at 19
- Became curious on modern web development
- Got hired at facebook
- Got tired and moved to Europe
- Runs a hairstyle company



<b>2017 Median Pay</b>	\$103,560 per year \$49.79 per hour	2017 Median Pay	\$103,560 per year \$49.79 per hour
<b>Typical Entry-Level Education</b>	Bachelor's degree	Typical Entry-Level Education	Bachelor's degree
<b>Work Experience in a Related Occupation</b>	None	Work Experience in a Related Occupation	None
<b>On-the-job Training</b>	None	On-the-job Training	None
<b>Number of Jobs, 2016</b>	1,256,200	Number of Jobs, 2016	1,256,200

**Source: Bureau of Labor of the USA**

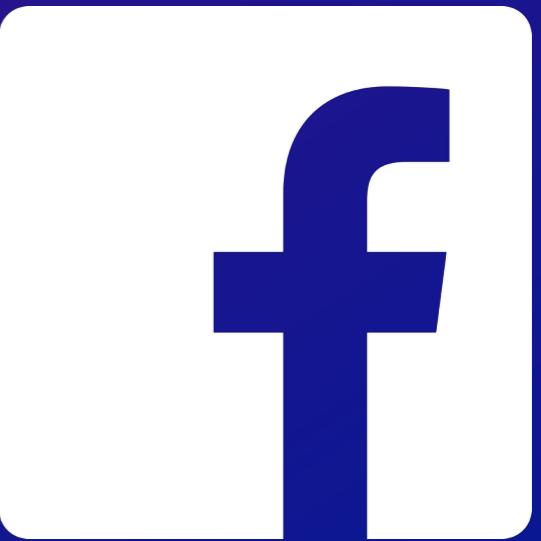
# Coders have an easy time to

- Move to a new country
- Get a high paying job
- Get company funding
- Create stuff people love
- Be freelancers
- Work at big companies
- Work at small companies



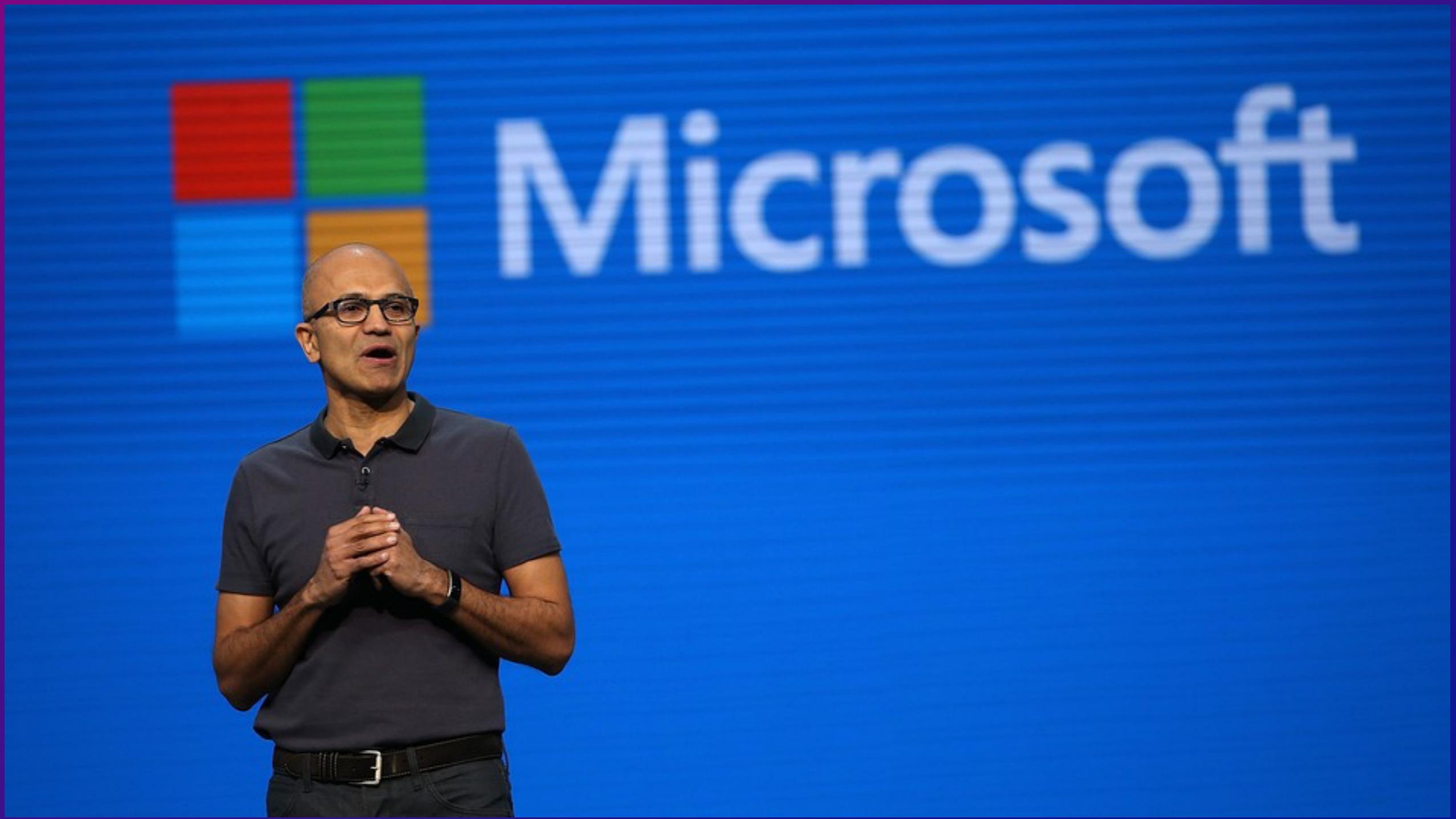
Microsoft

Google

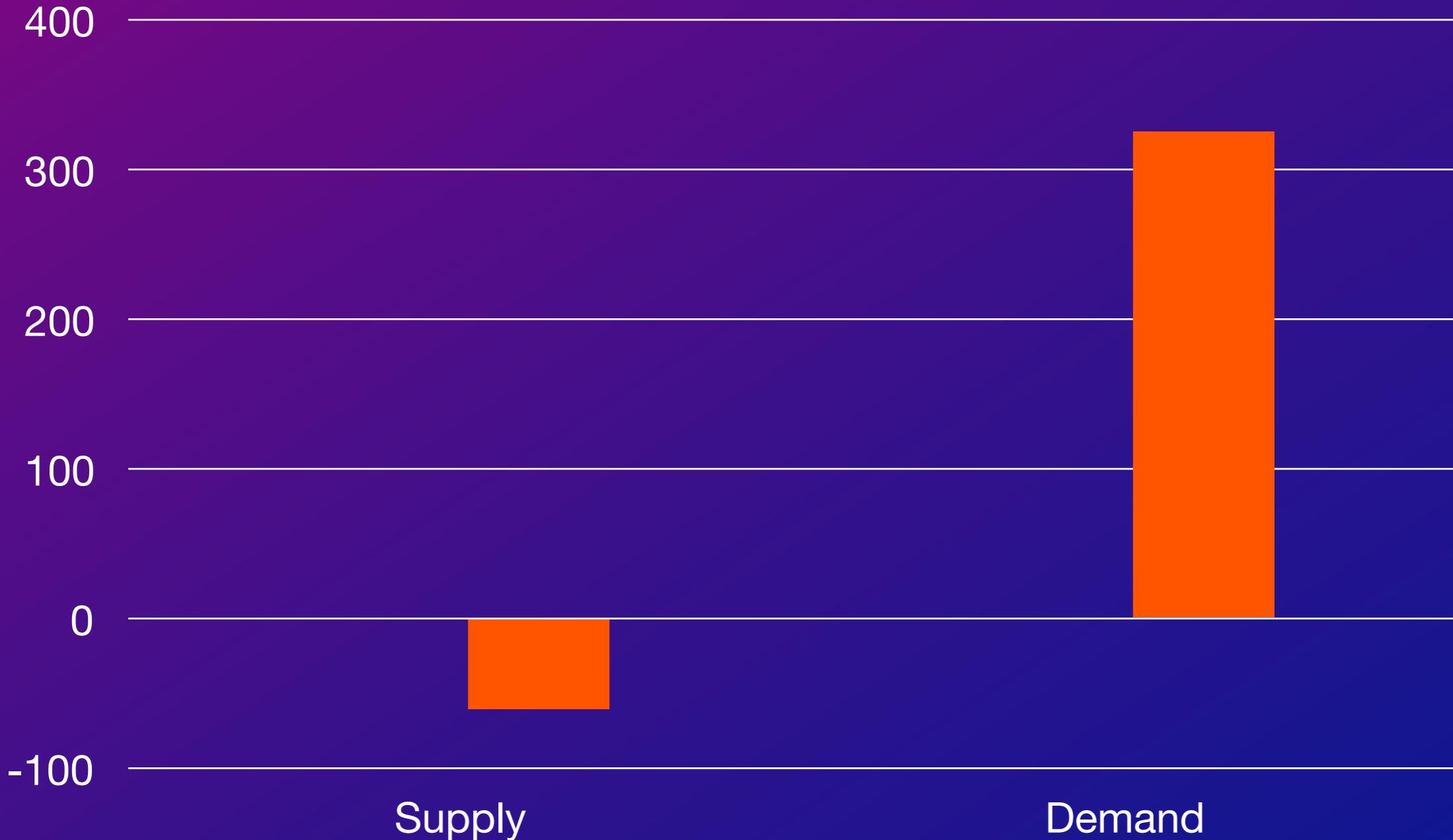


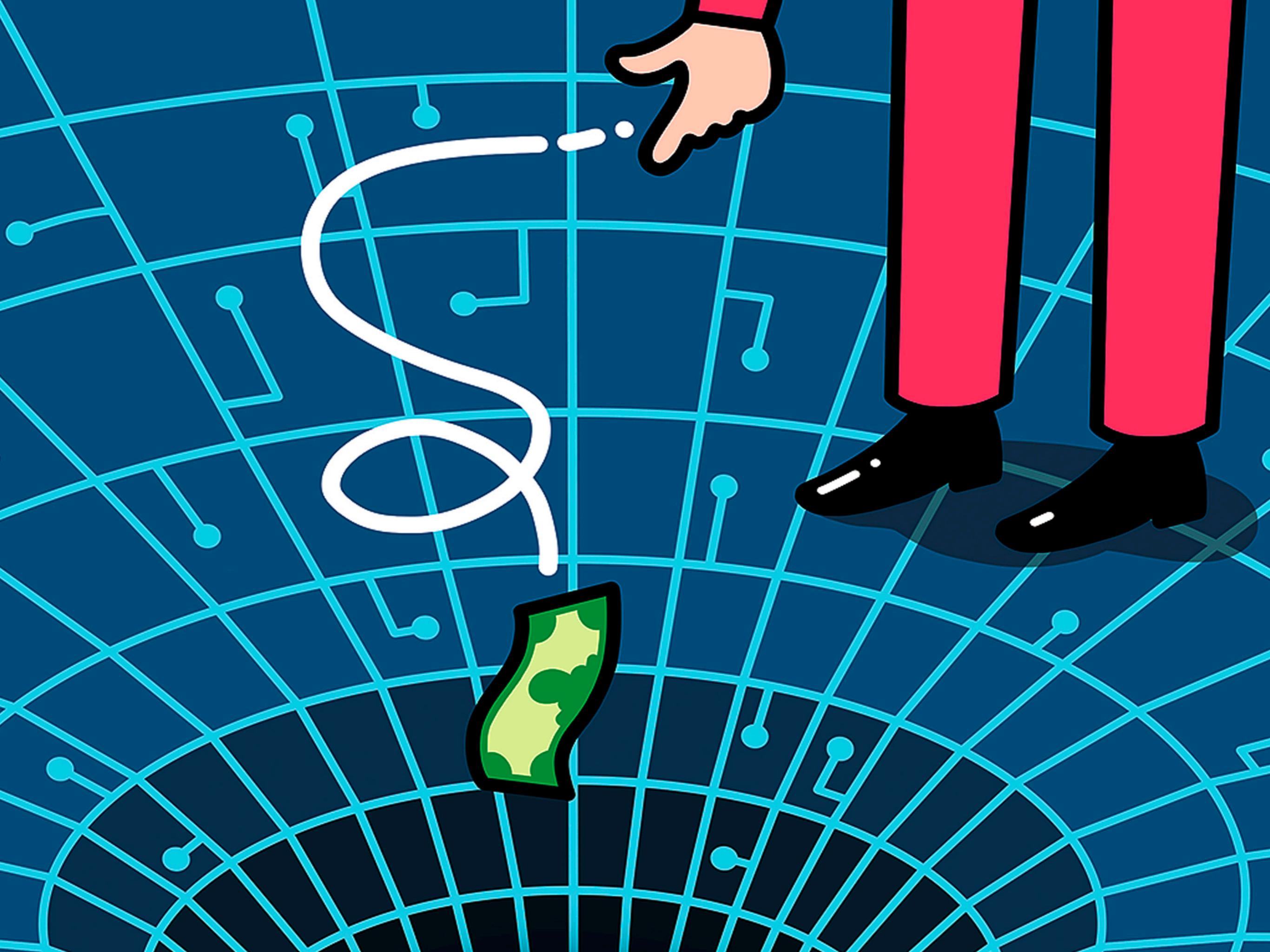
We've all had a tech  
idea

# Tech is everywhere



# Tech in a nutshell





**You can update  
your career**

**You can make money**

**You can look smart**

**You can make  
a travel agency**

**You can be make a  
website**

**You can be your  
build an app**

**You can create a  
new social media  
company**

**You can make  
a travel agency**

**With Code**

**You can make a  
game**

**You can be make a website**

**You can sell stuff  
online**

**You can make a  
self-driving car**

**You can be your own boss**

**You can create**

**You can sell tutorials**

**You can make get  
hired**

**You can have a  
high salary**

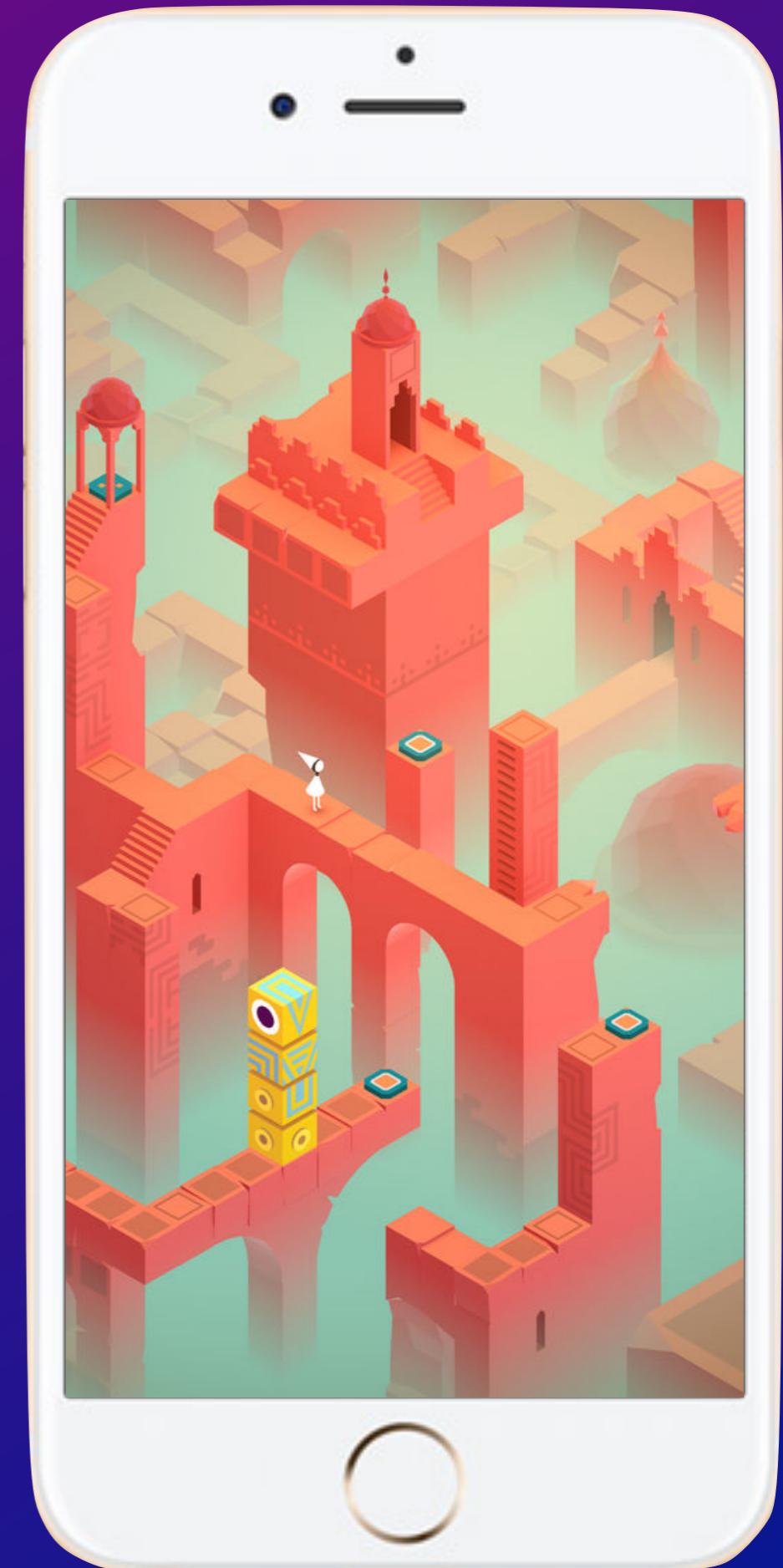
**You can travel**

**You can have financial  
independence**

# You can create

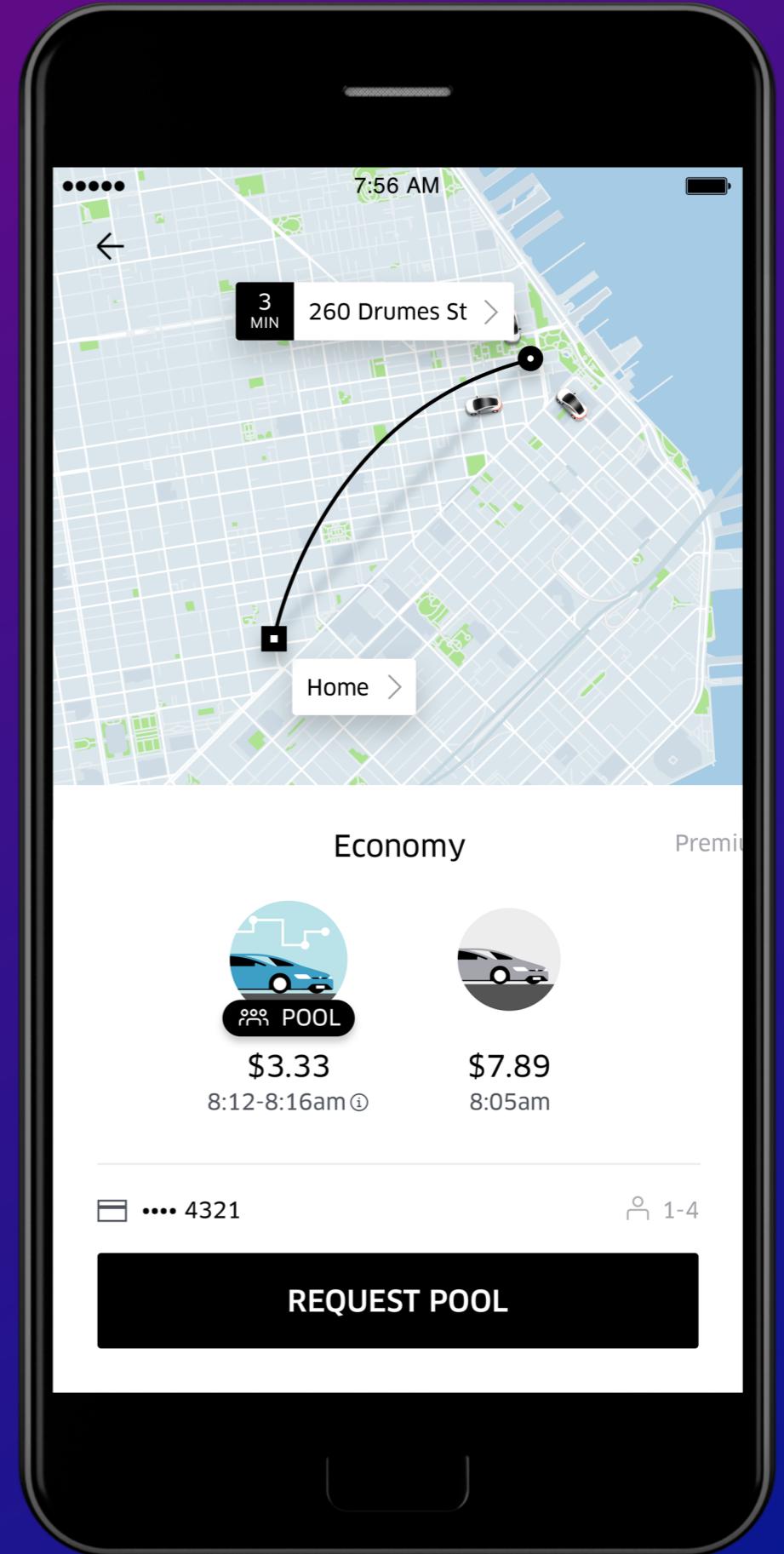
# You can create

An interactive piece of art



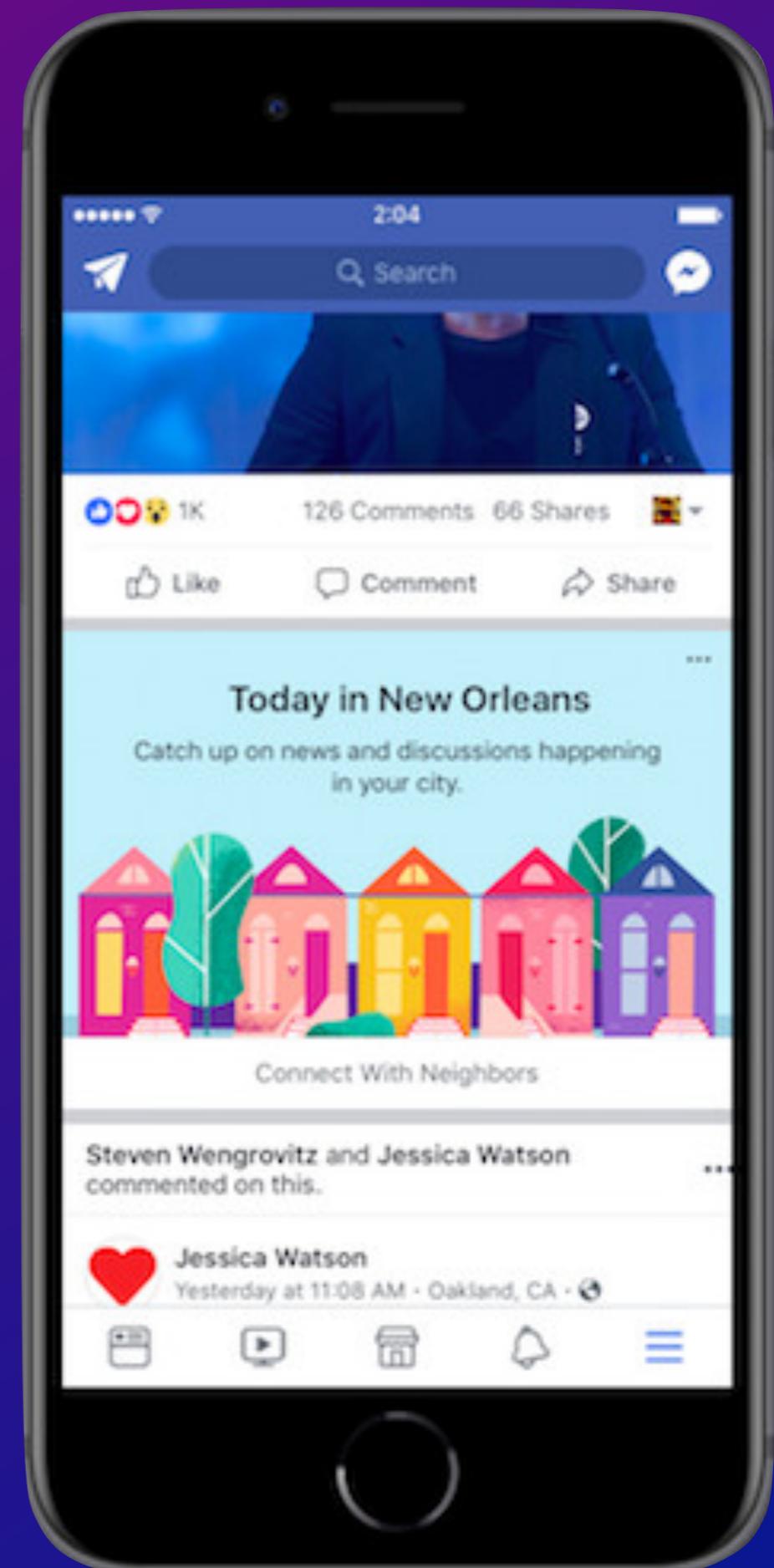
# You can create

A form to get from A to B



# You can create

A way to steal data



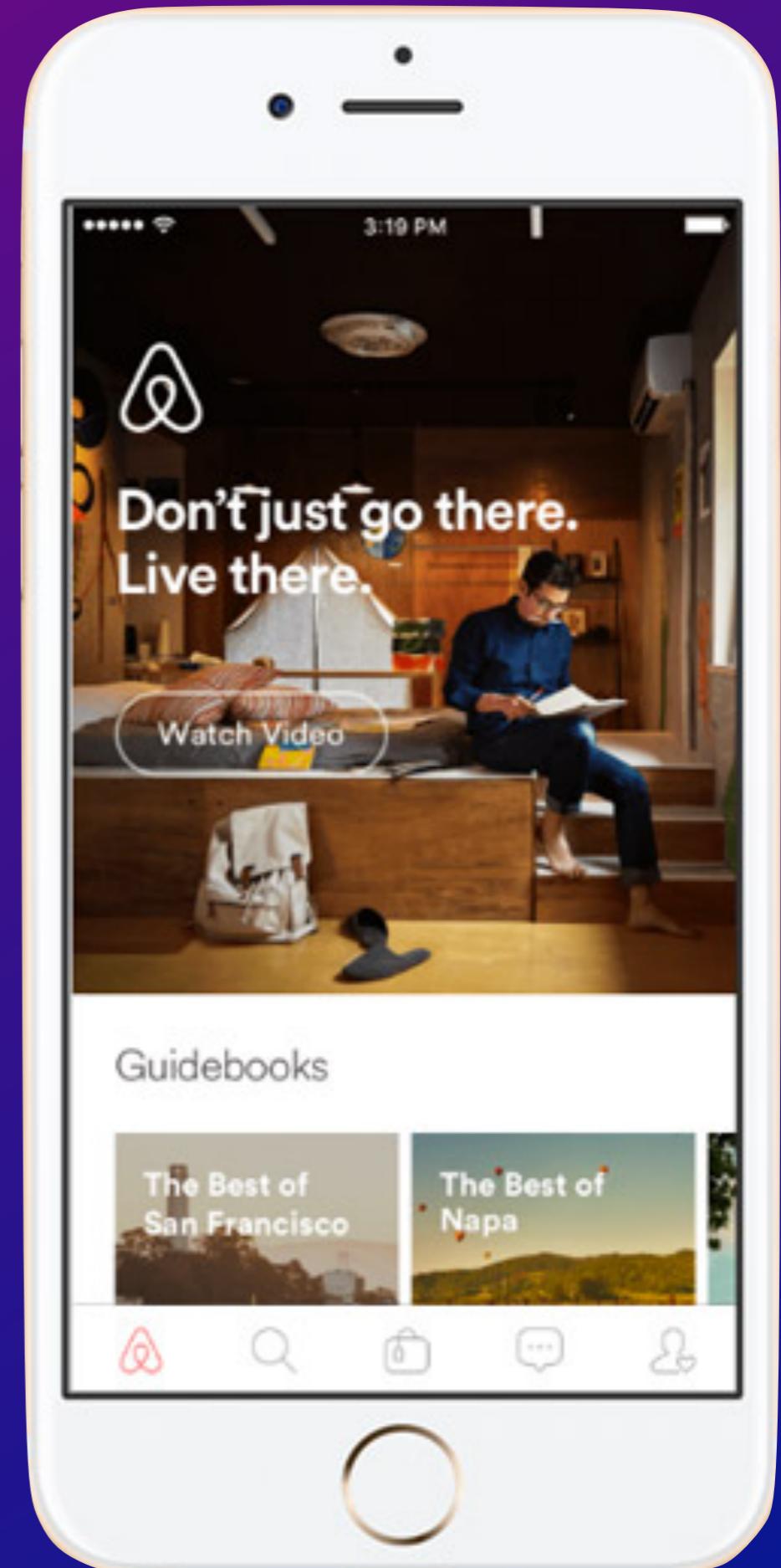
# You can create



A game that makes you go nuts

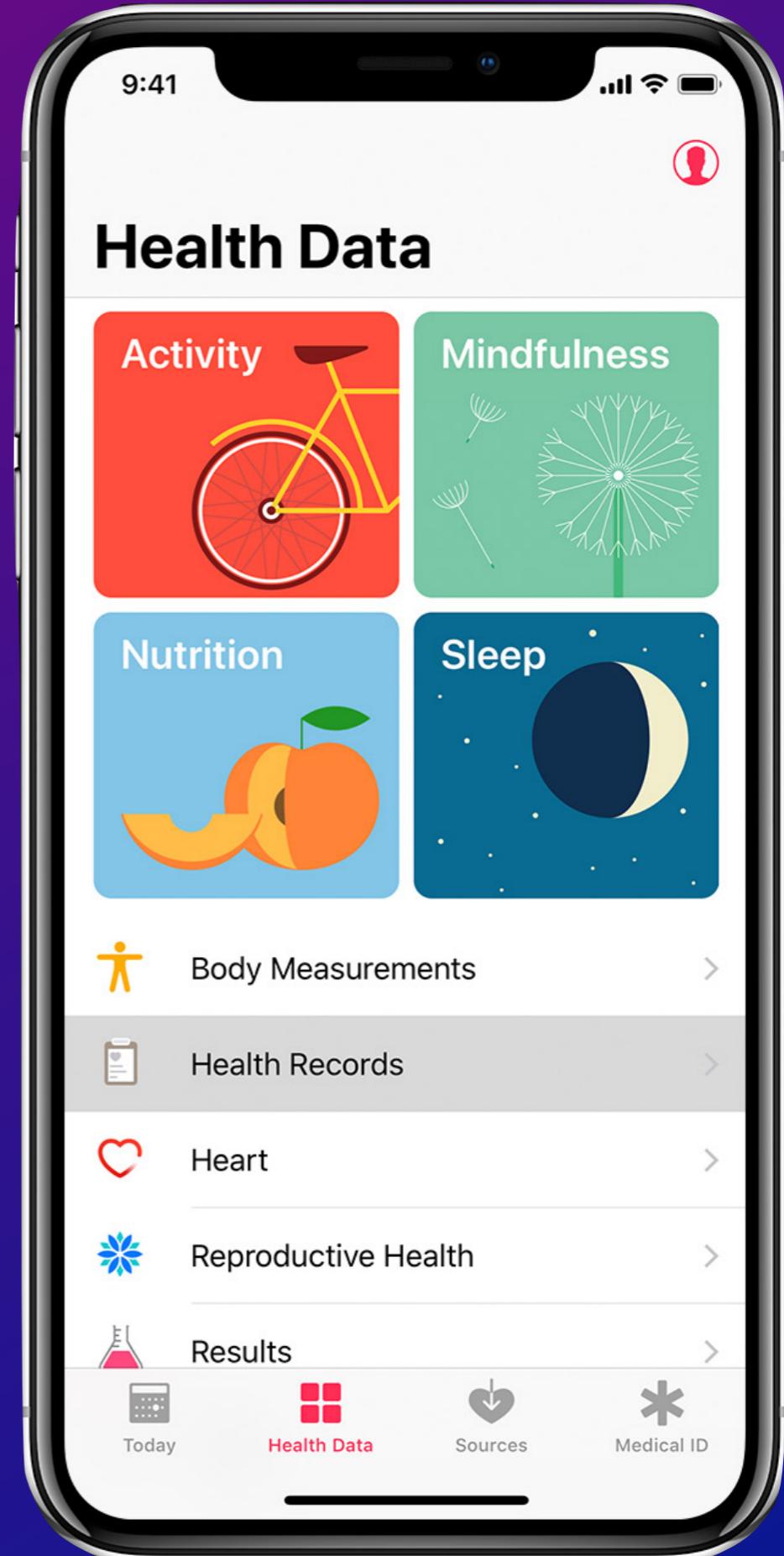
# You can create

A new way to be a tourist



# You can create

A tool for people to live healthier lives



# You can create

A way for people to relax





# Happy Hacking!



# Activity!

- Mind storm what you'd love to build with code
- Imagine your perfect life as a programmer
- Analyze what you want to learn code for
- Share your thoughts with all of us
- We'll talk about the curriculum

# Our Curriculum

Module	Teacher	Topic	Story	Activity	
GRAL	1	Phill	How the internet works on a basic level	A group of CA nerds needs computers to talk to each other	Basic website using PHP, HTML, CSS and local hosting
GRAL	2	Phill	Basics of NodeJS and Github	The start of JS and Node	Tinker around with raw Node + Express server for a basic app
GRAL	3	Vic	More programming concepts	One guy once needed a website to show his contact info in a cool way	Play with React and create your first app based on user input
FRNT	4	Vic	What is a SPA and how to Router	Robert has a bakery, knows React, but wants a MPA	Create a MPA with React for your very own Bakery
FRNT	5	Vic	Understanding the browser context	Allison runs a pet-shop and wants to show dog pics depending on time	Create single React app for this
GRAL	6	Phill	HTTP and server-client communication	An ancestral coder needs a way for many computers to talk to each other	Sending and receiving HTTP requests with React + Axios and websites
BKND	7	Phill	What are servers and what is serverless	I need some code to run outside my client	Create a GCP cloud function and call it from React client
BKND	8	Phill	Cloud Providers	I need my app to have user Auth to be with the cool kids	Create accounts in GCP and AWS and evaluate which is better for me
FRNT	9	Vic	React app with user Auth	I run a reading circle program around the city	Build a web App for my problem with user Auth and Router
FRNT	10	Vic	React Native	Facebook needs evermore data and needs a tool for all Frontend	Build a basic App with React Native and tinkering around
BKND	11	Phill	DB's: SQL, NoSQL and DynamoDB	John needs a way to store as lots of data to sell it to the Russians	Build a basic DynamoDB schema and provision the tables
BKND	12	Phill	GraphQL and AppSync	John wants a more elegant way to do CRUD operations on his tables	Build and provision a basic AppSync API
FRNT	13	Vic	Do not re-invent the wheel with RN	Bob is dump as hell and builds from scratch and cannot gather data	Build basic RN app with Navigation, Amplify and RN pages
ORG	14	Vic	Organizational Do's/Dont's & Github deep dive	John wants people to join into his new business idea: Instavopuppies	Create a repo and plan "who will be what" in our new startup team
MKT	15	Phill	Niches: What are they and why are they important?	We're a bunch of hackers who want to build an app that people love	Decide our niche and our business model by Gil and Ana
FRNT	16	Vic	Project Introduction and RN App design	We want to design quickly the overall layout of our application	Forking the RN template and sketching what the layout will be collaboratively
BKND	17	Phill	Deploying basic AWS resources and Building API	We need solid backend functionality for our app	Create Cognito user pool and AppSync API, further create collaborative groups for backend
FRNT	18	Vic	Building Screens	We need to build the screen of our app quickly and cohesively	Build primary app screens and divide class into groups for the rest of screens
BKND	19	Phill	Critical Thinking: ML, Vision, or both	We need a way to test if a user uploaded image contains a puppy and an avocado	Build and decide between cloud providers and infrastructure for the app; Design thinking!
FRNT	20	Vic	Building more Screens	We need our app to be amazing and intuitive to sell user data	Integrating and building more screens
BKND	21	Phill	Finishing Cloud Deployments and testing	We need our app to have a solid and scalable cloud infrastructure to sell data	Getting our hands dirty on the console of AWS and GCP
FRNT	22	Vic	Building Screens and integrating with Cloud Infrastructure	We need our app to use real data and write real data	Finishing mash up of screens of all the teams and connecting them to our cloud
MKT	23	Vic	How to make your app appealing and iterate quickly	We want to be a multi-billion company, and for that we need an amazing user experience	What makes an amazing UX and how does that go all the way: conversation and code tweaking
BKND	24	Phill	Cloud Debugging: costs, errors, and scalability	We want the experience to be amazing and the costs to be low	Fixing cloud bugs
FRNT	25	Vic	Debugging, Polishing, Deploying and Testing	Our app needs little tweaks here and there...	Fixing RN bugs
ORG	26	Phill	Culture: How to take your organization to the next level	We want to be an innovative ever-growing team	Talk and conversation
Class Off	27		Yay!	Talkin' with Food and Networking	Networking + Pizzas at Innovaction

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**General: 4**

**Frontend: 10**

**Backend: 8**

**Organizational: 2**

**Marketing: 2**

# People to thank



# Parque Tecnológico Orión

## Tecnológico de Monterrey



**\*Cyndi de la Torre\***





Parque Tecnológico Orión  
Tecnológico de Monterrey

>Hack  
/orion/v.1.0

HACKEA EL PARQUE

13 Y 14 DIC 2018





Automatically in, all of us.





Parque Tecnológico Orión  
Tecnológico de Monterrey

# >Hack /orion/v.1.0

## HACKEA EL PARQUE

13 Y 14 DIC 2018



<http://bit.ly/convocatoria-hack-orion>

# Bye!

pls leave now

# Takeaways\_mod0

- \$100 per person needed by Monday before class
- Classes done in English & bring your own laptop
- Curriculum is tight and intense
- Knowing to code is really powerful
- Coding is an intersection between creativity and tech
- If evaluated as needed, we may increase the time per day