Project Tango

Introducing Project Tango

Join us as we work to give mobile devices a human-scale understanding of space and motion.

We are seeking professional developers hoping to create more than a touch screen app. Project Tango provides unique sensing capabilities that allow developers to explore new user experiences not possible on other mobile devices.

Watch Video

What is Project Tango?

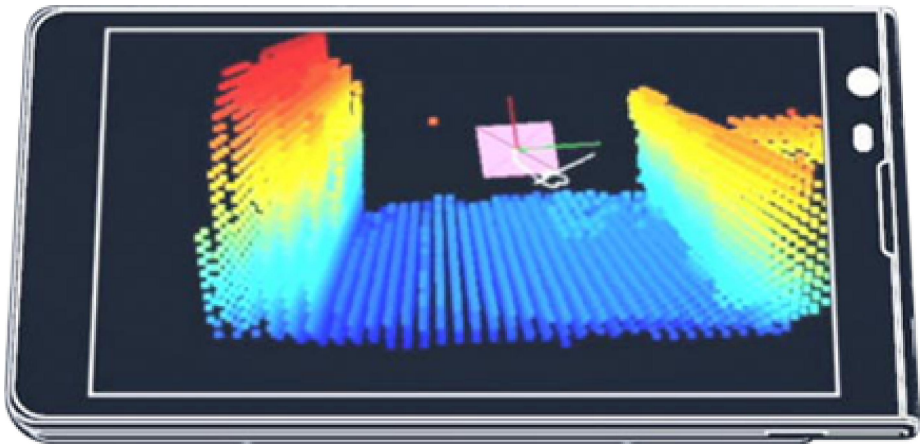
As we walk through our daily lives, we use visual cues to navigate and understand the world around us. We observe the size and shape of objects and rooms, and we learn their position and layout almost effortlessly over time. This awareness of space and motion is fundamental to the way we interact with our environment and each other. We are physical beings that live in a 3D world. Yet, our mobile devices assume that physical world ends at the boundaries of the screen.

The goal of Project Tango is to give mobile devices a human-scale understanding of space and motion.

Our team has been working with universities, research labs, and industrial partners spanning nine countries around the world to build on the past decade of research in robotics and computer vision, concentrating that technology into a unique mobile device. We are putting early prototypes into the hands of developers that can imagine the possibilities and help bring those ideas into reality.

We hope you will take this journey with us. We believe it will be one worth traveling.

Johnny Lee and the ATAP-Project Tango Team



3D motion and depth sensing

Project Tango devices contain customized hardware and software designed to track the full 3D motion of the device, while simultaneously creating a map of the environment. These sensors allow the device to make over a quarter million 3D measurements every second, updating its position and orientation in real-time, combining that data into a single 3D model of the space around you.

They run Android and include development APIs to provide position, orientation, and depth data to standard Android applications written in Java, C/C++, as well as the Unity Game Engine. These early prototypes, algorithms, and APIs are still in active development. So, these experimental devices are intended only for the adventurous and are not a final shipping product.

What could I do with it?

What if you could capture the dimensions of your home simply by walking around with your phone before you went furniture shopping? What if directions to a new location didn't stop at the street address? What if you never again found yourself lost in a new building? What if the visually-impaired could navigate unassisted in unfamiliar indoor places? What if you could search for a product and see where the exact shelf is located in a super-store?

Imagine playing hide-and-seek in your house with your favorite game character, or transforming the hallways into a tree-lined path.

magine competing against a friend for control over territories in your home with your own miniature army, or hiding secret virtual treasures
n physical places around the world?

Sign-Up Today

Project Tango Tablet Development Kit

Our 7" development kit is powered by the new NVIDIA Tegra K1 processor packed with 4GB of RAM, 128GB of storage, motion tracking camera, integrated depth sensing, WiFi, BTLE, and 4G LTE (availability will depend on region and carrier).

These development kits are designed for professional developers interested in exploring the future of mobile 3D sensing. Developers will receive updates as the software algorithms and APIs evolve. These development kits are not a consumer device and will be available in limited quantities.

Put me on the waitlist for the development kit

Sign-up to purchase the Project Tango Tablet Development Kit as they become available. We are making batches in limited quantities and offering them on a first-come, first-served basis to developers that sign up here.

- Full Name *
- I am a developer *
- Your email address
- Sign Up

* denotes a required field. Your information will be used in accordance with Google's Privacy Policy.

About the phone

We made our first Project Tango devices available in a phone form-factor, and we're pleased to report that these devices are now in the hands of software developers who are helping us push the technology forward.

We've already shared all of the phone devices we have at this time, but you can use the form above to request a Project Tango Tablet Development Kit.

What's next?

We are still in the early days as this technology starts to transition out of the research labs into the hands of millions of people. While we may believe we know where it may go, history suggests we should be humble in our opinions. We are excited to see the road ahead of us take shape with each step forward.

The future is awesome. Let's build it together.

Thank you to our partners!

We would like to thank and recognize the efforts of some of our existing research and development collaborators: