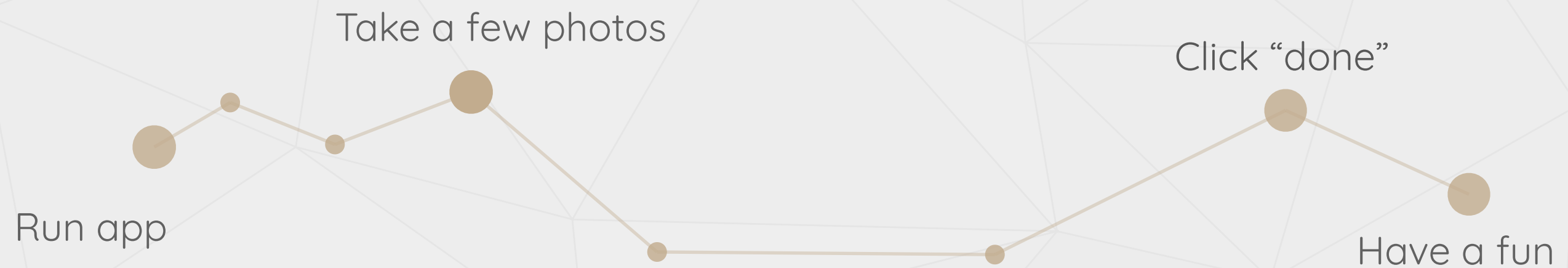# Welcome to BVS.

BVS

What is BVS project?

That's vision sytem consisting of several independent programs cooporates each other. Created for transfer real to 3D digital world.

The main aid of project is to show how many opportunities creates computer vision, image processing systems and techniques such as structure from motion.

Take a few photos

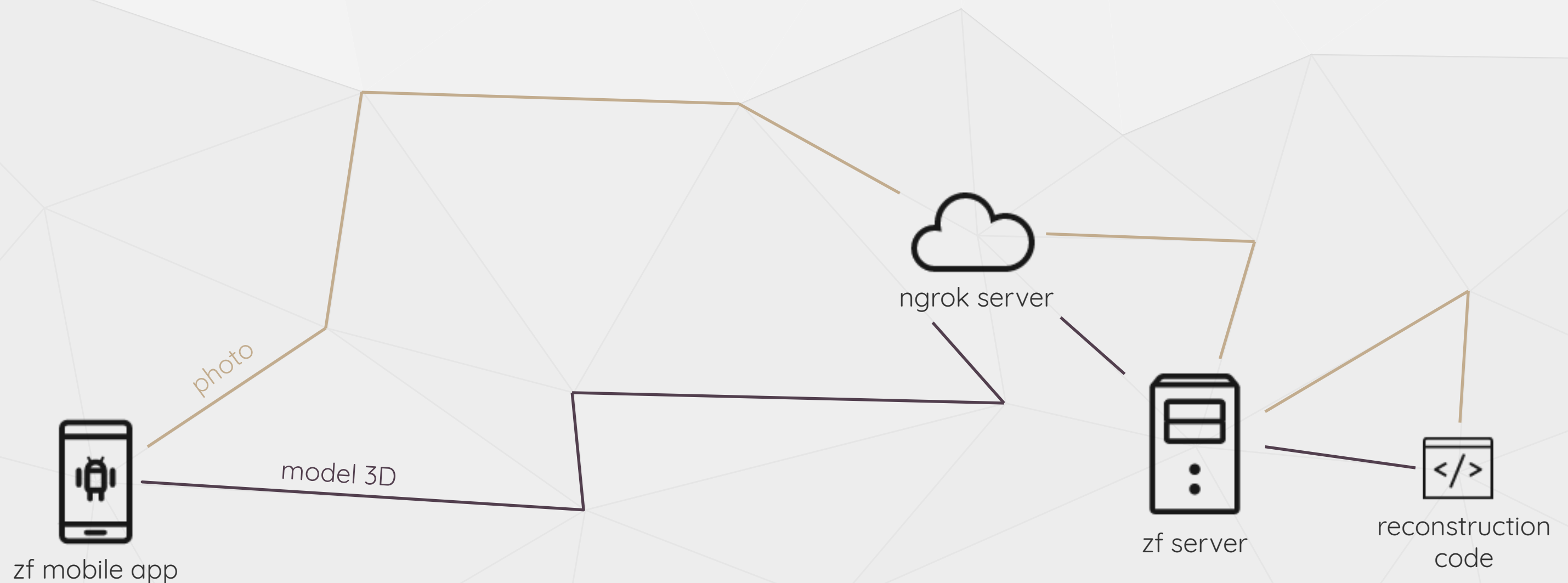Click "done"

Run app

Have a fun

BVS

How does BVS works?

During startup mobile application, it init connection with remote server about 20km from Częstochowa.

Every time you take photo, it is automatically sent in background to server.

When you click done button, server call special program which reconstruct photographed object.

After reconstruction server will send back your model and you will see it on the smatphone screen.

photo

ngrok server

model 3D

zf server

reconstruction code

zf mobile app

BVS

How is BVS built?

BVS contains several independent programs written in different programming languages, using many different frameworks and libraries.

Despite this diversity and inde-pendeces of subprograms, they communicate with each other to form computer vision system. Such an approach seems difficult and complex but allow to choose dedicated set of tools to solve specific problem.

Android
java

mobile app

Node.js, Express.js
javascript

app server

Qt, Mathematica
c++, c

reconstruction code

BVS

That is my hobby and private abstract world where i often stops for a moment to create next subworlds

The main aid of project is to show how many opportunities creates computer vision, image processing systems and techniques such as structure from motion.

About

I am a fun of old thick books, neat graphics and minimalism. I have been programing for 8 years.

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