Sprint 1

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Intro

Summary

1. Image to dataset
2. Image augmentation
3. Google Maps as intro to machine learning
4. Research
5. Future goals

Image to dataset

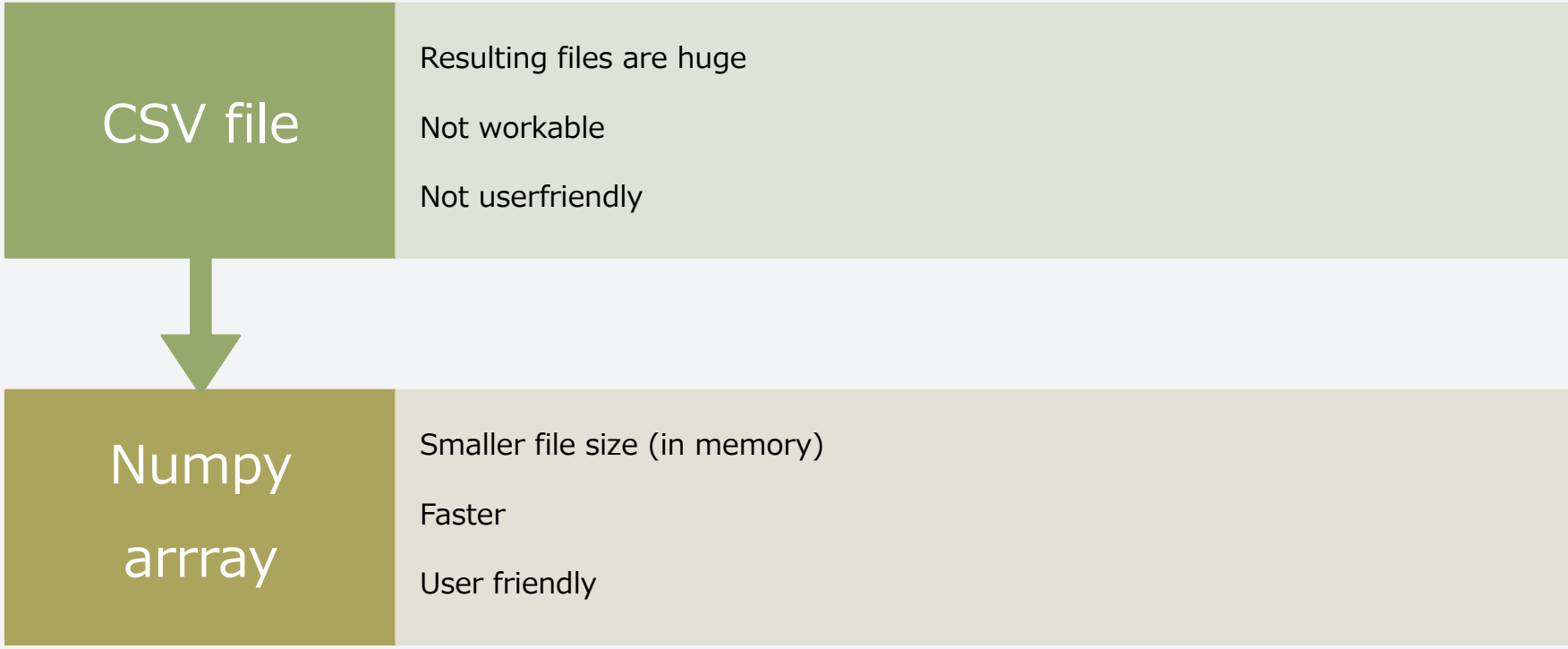
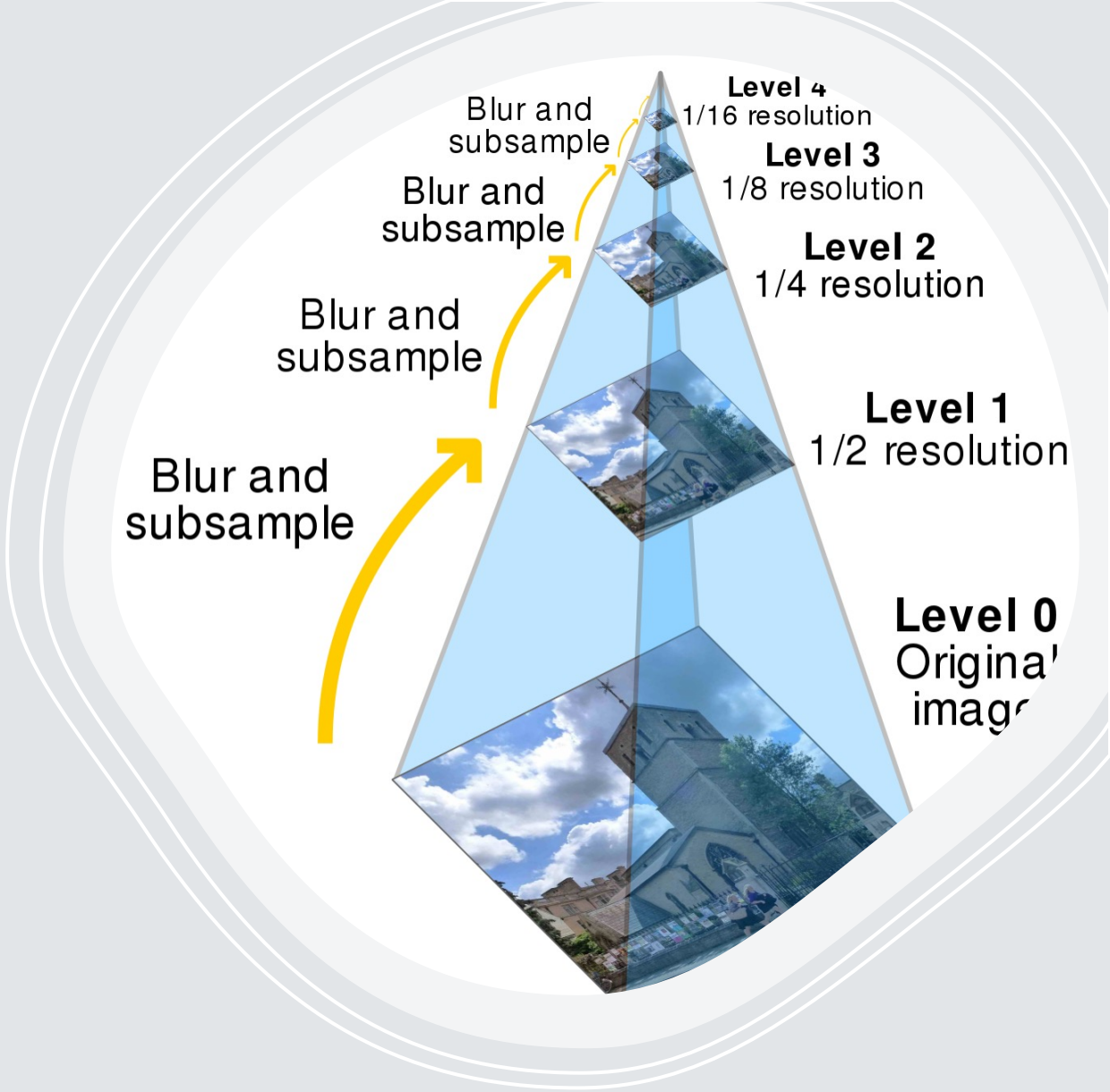


Image augmentation

Final model has a very small dataset for training. As user will colour region of interest by hand.

Image augmentation is neccesary:

- **Gaussian pyramid**
- ***Zoom in/out and rotation***
- ***Embossing***



Google Maps as intro to machine learning

Research

Earlier research with similar goals:

- Red Blood Cell Classification Based on **Attention Residual Feature Pyramid Network**
- **Keras R-CNN**: Cell detection in biological images using deep neural networks
- EM Cell organelle **masking** (3d)

Future Goals

Start using basic machine learning algorithms

Explore various ML libraries (Pytorch, Tensorflow)