

# GANs

Ani

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## 1 Intro to GANs

**Remark:** Note that GANs stand for Generative Adversarial Networks.

### 1.1 Generative Models:

**Definition 1.1:**

A generative model *generates* new data samples that looks like the training data.

**Example 1.2:**

Consider a coin flip generative model.

### 1.2 Adversarial Networks:

### 1.3 Neural Networks:

## 2 Math and Theory of GANs

## 3 Implementation of GANs in Keras