Fragen:

* Wie sehr müssen wir uns an dem Code in den Folien orientieren und wie viel Freiheit haben wir neue Anwendungen zu erstellen
* Ideen: style transfer von Kunstepochen zu Bildern, increase image resolution, turning daytime scene into nighttime ; Synthesizing satellite view from map view
* Wie können wir unseren code per email verschicken / im ilearn hochladen
* Werden wir zusammen bewertet?
* Eigener Beitrag
* Aufgabenstellung
* Timing
* Leutemitnehmen
* Stoff den Leuten beibringen
* In Häppchen unterteilen
* Gute Folien
* Passender Inhalt

Cuda:

C:\Users\Raoul\AppData\Local\Temp\cuda

Todo:

* Bilder während training zeigen
* Plot training
* Show different model architecture performances

Ideen:

* Kann ich bilder in google colab einfügen:
* Ein Bild, das Diagramm, Text, Screenshot, Reihe enthält.

  Automatisch generierte Beschreibung

**Script**

* Embedding layer : turns input labels into dense vectors of noise vector shape

CGAN Discriminator:

1. Label gets transformed into dense vector by embedding layer
2. Reshaping
3. Concatenate reshaped label embedding onto corresponding image (stamp it on top of it)
4. Feed the joint representation as input into the CGAN Discriminator network

* Model input dimensions have to be adjusted to size x\*x\*2 because of the new input shape due to stamping
* Dept of first convolutional layer is doubled from 32 to 64 due to bigger image size
* Output layer: sigmoid for evaluation

Building the model:

* Same input layer is passer to the generator and the Discriminator compared to other GANs

Def sample\_images():

* Used to examine how the quality of generated images improves as training progresses
* We create 2 grids of numbers ; 1-5 and 6-9
* Alloys us to inspect how well specific numerals are produced