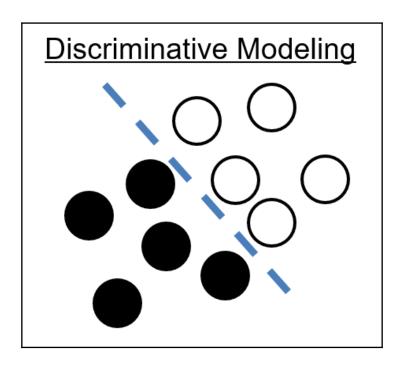
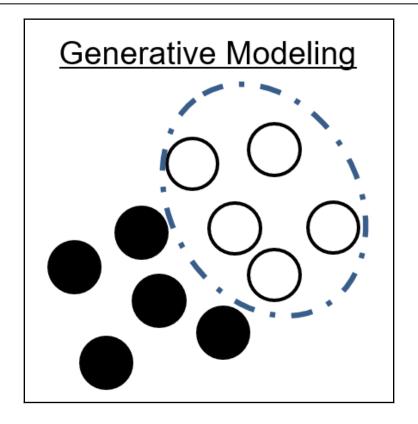
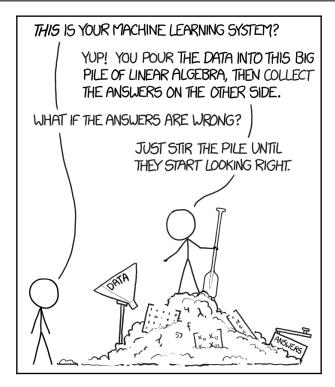
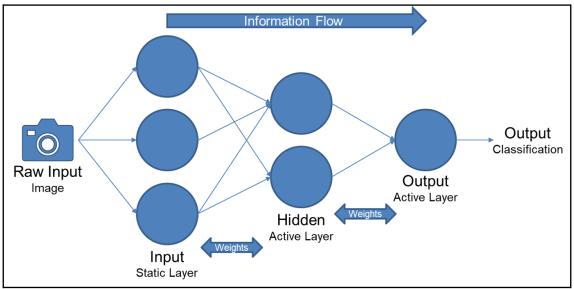
1Graphics

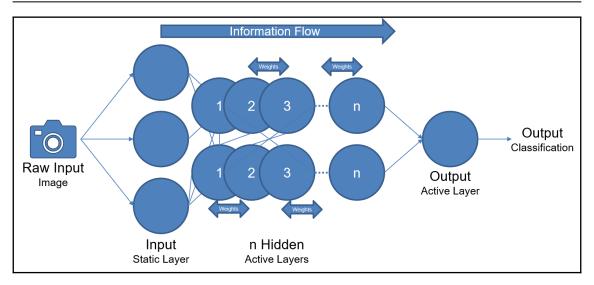
Chapter 1: What Is a Generative Adversarial Network?

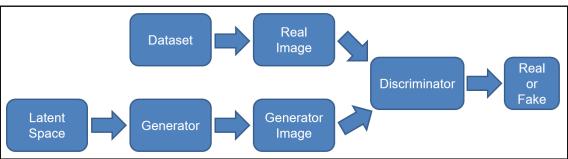


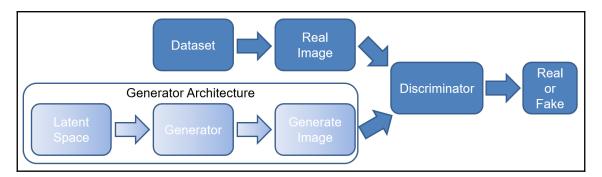




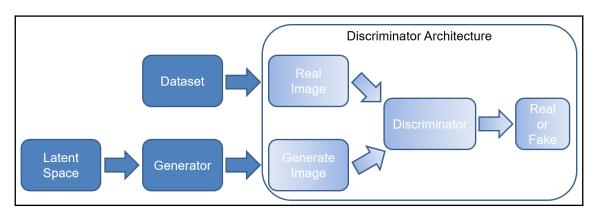






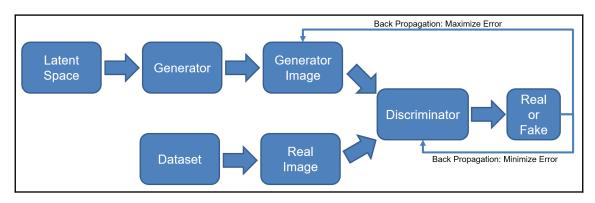


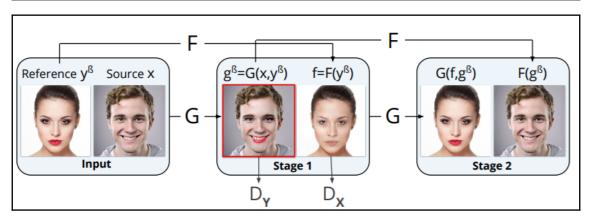
```
class Generator:
 1
 2
          def __init__(self):
 3
              self.initVariable = 1
 4
 5
          def lossFunction(self):
 6
 7
 8
              return
 9
          def buildModel(self):
10
11
12
              return
13
          def trainModel(self,inputX,inputY):
14
15
              return
16
```

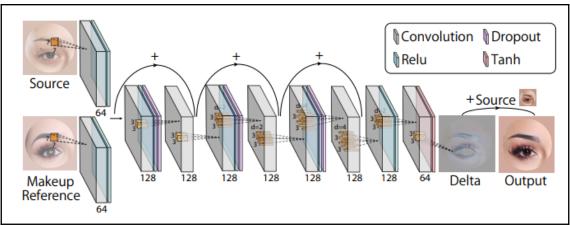


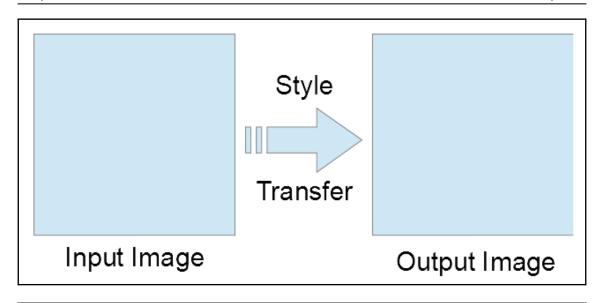
```
class Discriminator:
          def __init__(self):
              self.initVariable = 1
         def lossFunction(self):
 6
 7
 8
              return
 9
          def buildModel(self):
10
11
12
              return
13
          def trainModel(self,inputX,inputY):
14
15
16
              return
```

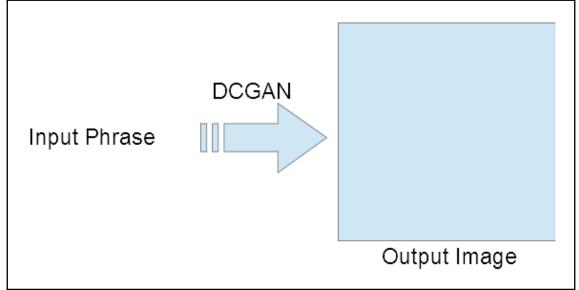
```
class Loss:
1
 2
          def __init__(self):
 3
              self.initVariable = 1
 4
 5
          def lossBaseFunction1(self):
 6
              return
8
9
          def lossBaseFunction2(self):
10
11
              return
12
13
          def lossBaseFunction3(self):
14
15
              return
16
```

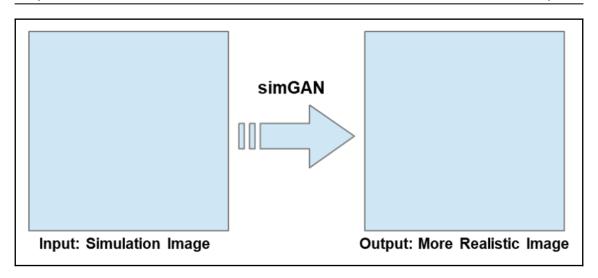










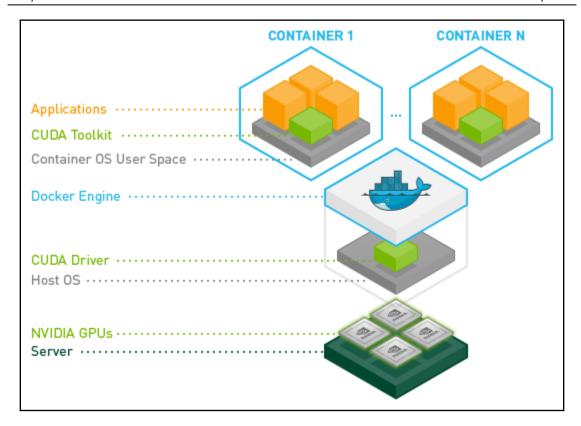


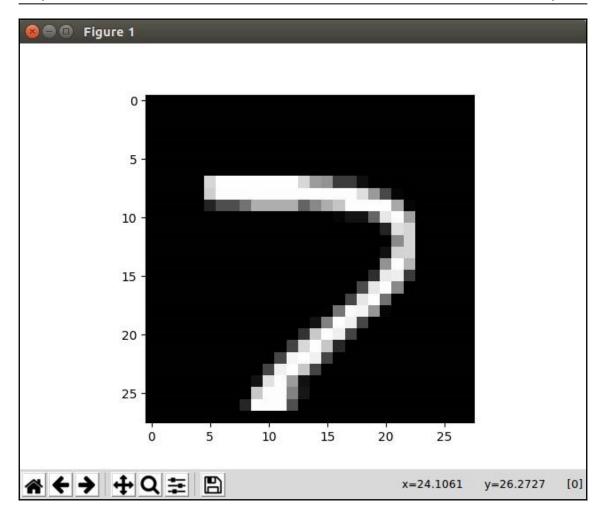
Chapter 2: Data First, Easy Environment, and Data Prep

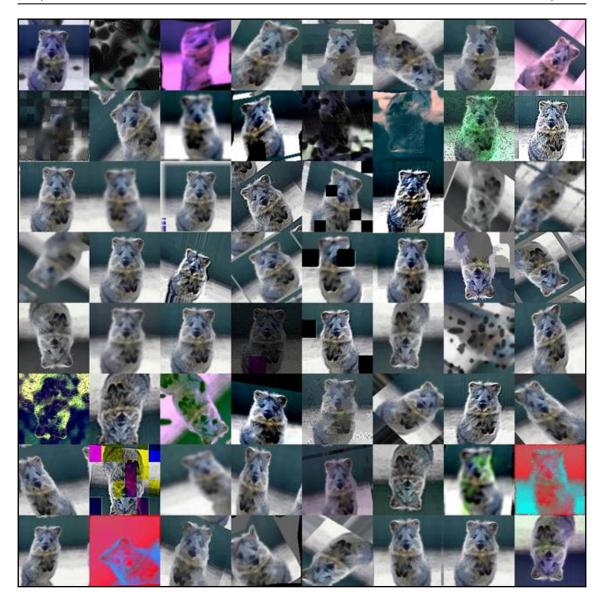
INSTALLING THE XXCOGAN DEVELOPMENT ENVIRONMENT

- I. SPIN UP AVM
- 2. SPIN UP A VM INSIDE THAT VM
- 3. CONTINUE SPINNING UP NESTED VMS AND CONTAINERS UNTIL YOU GET FIRED

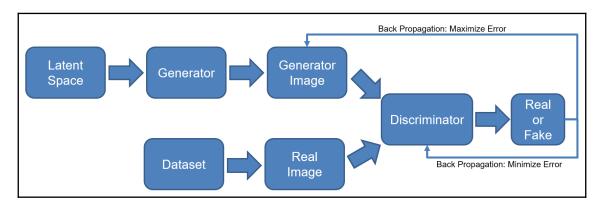
NVID	IA-SMI	384.9	0		Driver Version: 384.90	
GPU Fan	Name Temp	Perf			Bus-Id Disp.A Volati Memory-Usage GPU-Ut	
0	Tesla	K80		Off	00000000:00:04.0 Off	0
N/A	34C	P0			11439MiB / 11439MiB 0	
	esses:					
Proc	esses:					GPU Memory
Proc GPU	esses:	PID	Type	Process		GPU Memory Usage

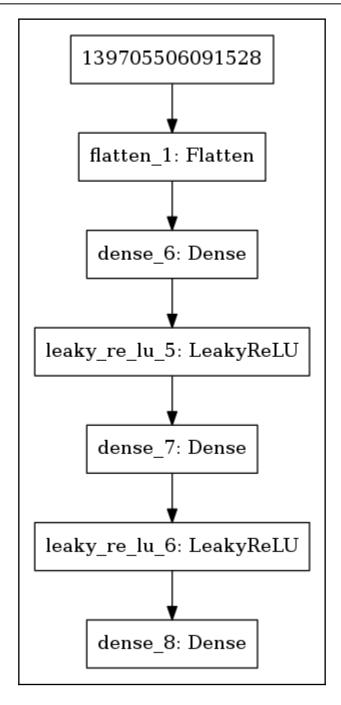


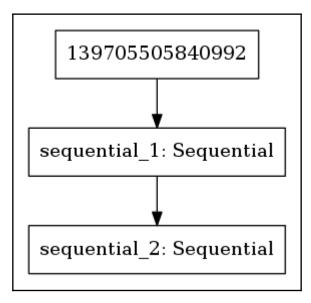


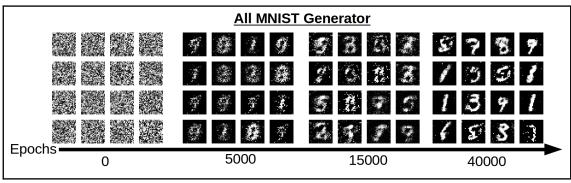


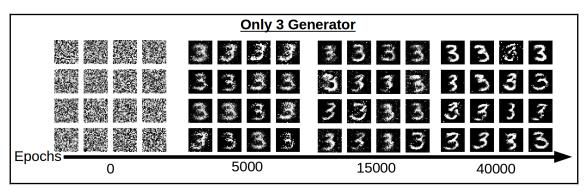
Chapter 3: My First GAN in Under 100 Lines



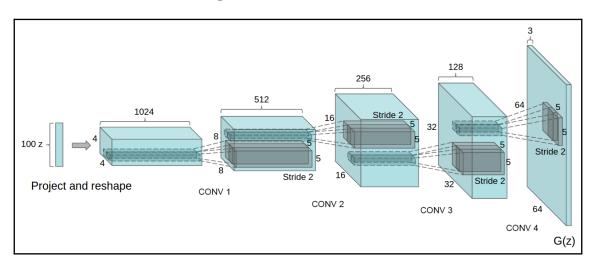


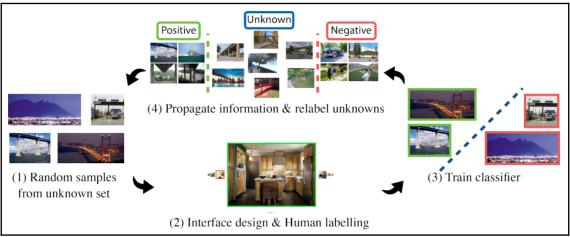


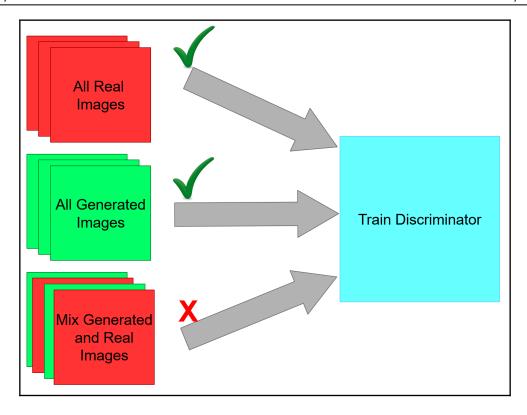


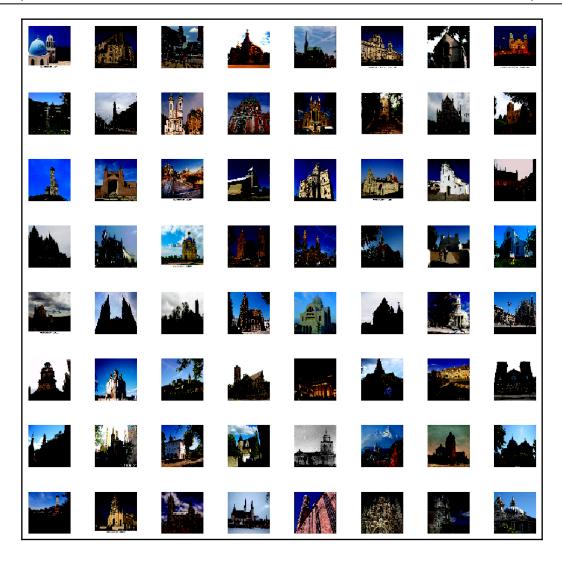


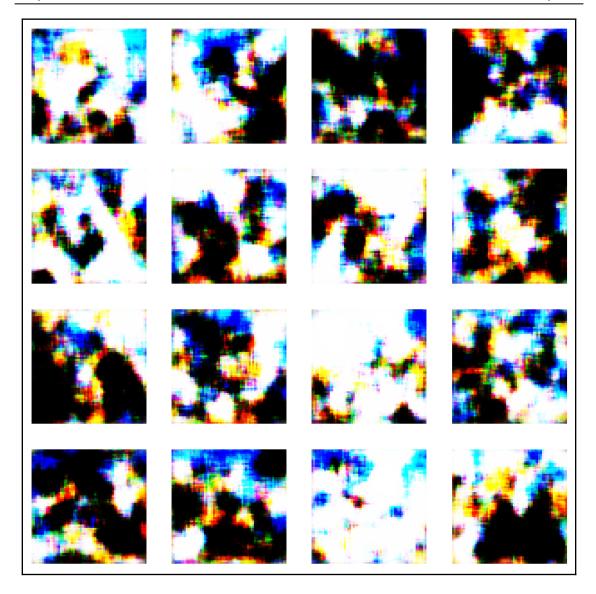
Chapter 4: Dreaming of New Outdoor Structures Using DCGAN

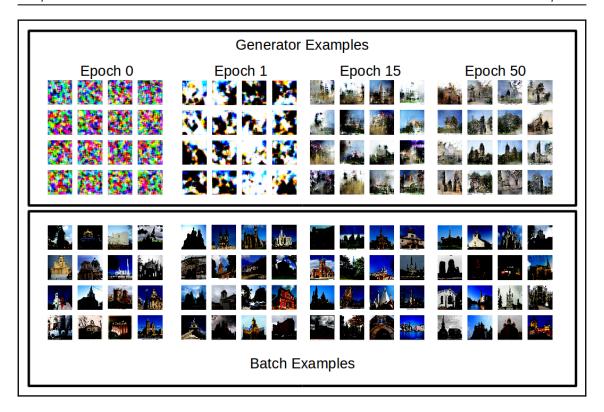




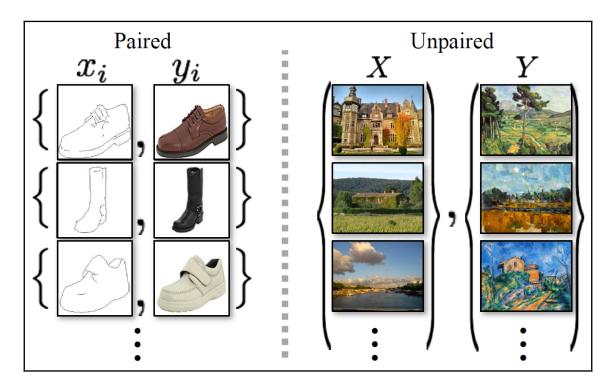






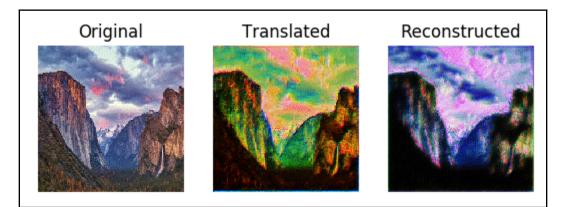


Chapter 5: Pix2Pix Image-to-Image Translation

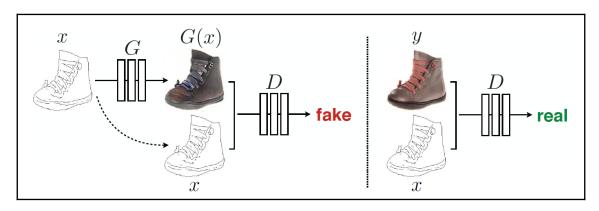


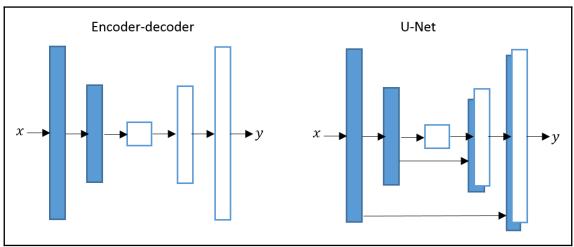




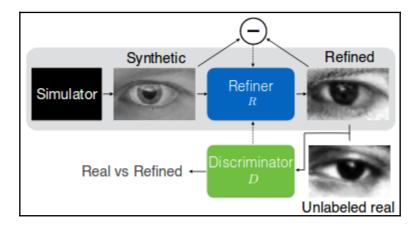


Chapter 6: Style Transfering Your Image Using CycleGAN





Chapter 7: Using Simulated Images To Create Photo-Realistic Eyeballs with SimGAN



Algorithm 1: Adversarial training of refiner network R_{θ}

Input: Sets of synthetic images $\mathbf{x}_i \in \mathcal{X}$, and real images $\mathbf{y}_j \in \mathcal{Y}$, max number of steps (T), number of discriminator network updates per step (K_d) , number of generative network updates per step (K_q) .

Output: ConvNet model R_{θ} .

for $t = 1, \ldots, T$ do

for $k=1,\ldots,K_g$ do

- Sample a mini-batch of synthetic images x_i.
- 2. Update θ by taking a SGD step on mini-batch loss $\mathcal{L}_R(\theta)$ in (4).

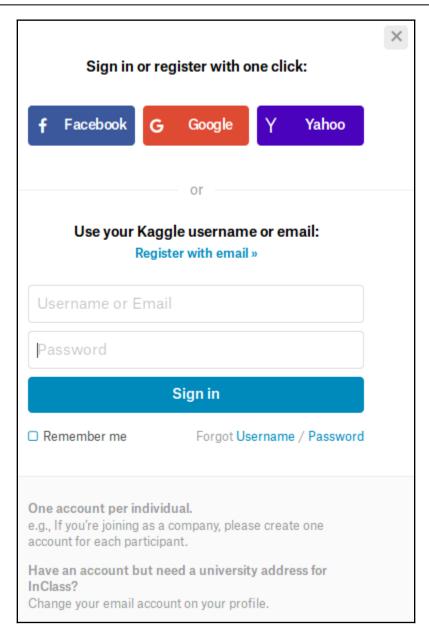
end

for $k = 1, \ldots, K_d$ do

- Sample a mini-batch of synthetic images x_i, and real images y_j.
- 2. Compute $\tilde{\mathbf{x}}_i = R_{\boldsymbol{\theta}}(\mathbf{x}_i)$ with current $\boldsymbol{\theta}$.
- 3. Update ϕ by taking a SGD step on mini-batch loss $\mathcal{L}_D(\phi)$ in (2).

end

end



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API

Using Kaggle's beta API, you can interact with Competitions and Datasets to download data, make submissions, and more via the command line. Read the docs

Create New API Token

Expire API Token

Chapter 8: From Image to 3D Models Using GANs

