

# Tutorial: GAN Dissection

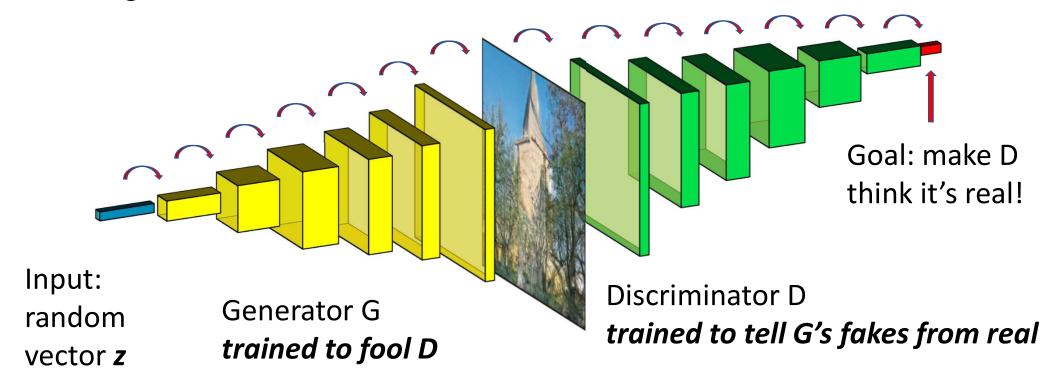
What is learned inside a GAN?

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To follow along: <a href="http://bit.ly/gandtut">http://bit.ly/gandtut</a> We will go through a Jupyter notebook. Ideal machine has git, conda, and a GPU.

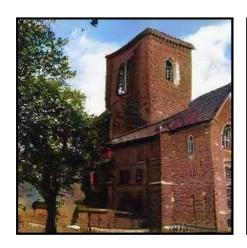
### Generative Adversarial Networks

The generator learns to beat a discriminator....



### What do we learn?

In the end the generator can synthesize terrific images. But how does it work? What does it actually learn?

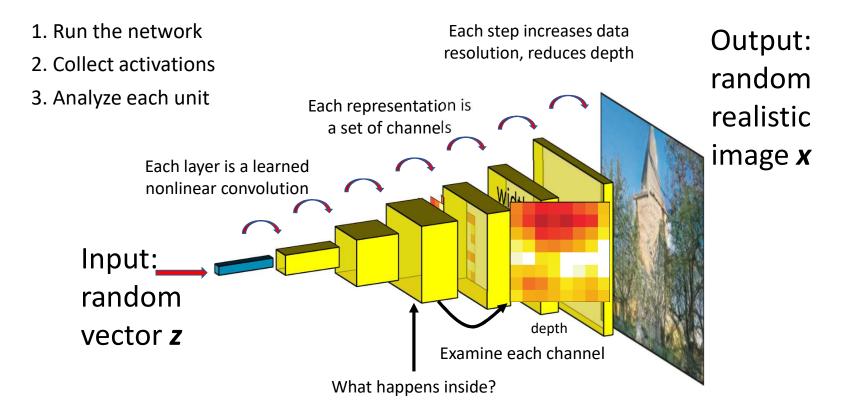








## Our Plan: GAN Dissection



# You can play along. Tutorial setup...

Instructions on <a href="http://bit.ly/gandtut">http://bit.ly/gandtut</a>

```
git clone --branch tutorial <a href="https://github.com/CSAILVision/gandissect.git">https://github.com/CSAILVision/gandissect.git</a>
cd gandissect
script/setup_env.sh  # Create a conda environment with dependencies
script/make_dirs.sh  # Create the dataset and dissect directories
source activate netd  # Enter the conda environment
pip install -v -e .  # Link the local netdissect package into the env
cd notebooks
jupyter notebook &  # Run jupyter
```

Then run the notebook called: dissect\_progan.ipynb