**User Guide:**

**1.** Go to code repo on GitHub site: <https://github.com/ennauata/housegan>

**2**. In README file go to “running pretrained model” instruction.

**In addition to these instructions, there are some more steps to execute / modify for running the code successfully:**

**3.** After downloading dataset, rename “exp\_demo\_500000.pth” to “exp\_with\_graph\_global\_new\_D\_200000.pth” (as actually appears in code)

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**4.** Open new notebook in google colab.

**5.** Import the project content by the following command**: “!git clone** [**https://github.com/ennauata/housegan.git**](https://github.com/ennauata/housegan.git)**”**

Make sure you can see it in the notebook content:  
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**6**. Create “checkpoints” folder under “content” folder, and upload the renamed file from step 3 into it:

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**7**. Upload “train\_data.npy” under “housegan” folder (the path will be “/content/housegan/train\_data.npy” in colab).

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**8.**  Run the following commands on google colab notebook for config appropriate “environment” for running (packages that are required for the project + set python3.8 as the default of colab (old code)):

!apt-get update -y

!apt-get install python3.8 python3.8-distutils python3.8-dev

!apt-get install graphviz libgraphviz-dev pkg-config

!wget https://bootstrap.pypa.io/get-pip.py

!python3.8 get-pip.py

!python3.8 -m pip install \

                  torchvision==0.6.1 \

                  Pillow==7.2.0 \

 imageio==2.9.0 \

 networkx==2.4 \

 numpy==1.18.3 \

 opencv-python==4.4.0.42 \

 pygraphviz==1.6 \

 scipy==1.4.1 \

 svgwrite==1.4 \

 webcolors==1.11.1 \

 matplotlib==3.2.1

!update-alternatives --install /usr/bin/python3 python3 /usr/bin/python3.8 1

!python -m pip install scikit-image

!python -m pip install pycocotools

!python -m pip install ipykernel

!python -m pip install Pillow==7.2.0 \

imageio==2.9.0 \

networkx==2.4 \

numpy==1.18.3 \

opencv-python==4.4.0.42 \

pygraphviz==1.6 \

scikit-image==0.17.2 \

scipy==1.4.1 \

svgwrite==1.4 \

webcolors==1.11.1 \

matplotlib==3.2.1

**9.** Before running “ **!*python******variation\_bbs\_with\_target\_graph\_segments\_suppl.py***” (README instructions):

- **need to change rooms path in line 180** to “rooms\_path = '/content/housegan/' “ instead of “rooms\_path = '/local-scratch4/nnauata/autodesk/FloorplanDataset/'”

- **need to change line 174 to** “generator.load\_state\_dict(torch.load(checkpoint, map\_location=torch.device('cpu')))”

Edit with notepad, save file and upload it to colab under “housegan” (you should use different name for avoid confusing between files, for example : save as “updated”)

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**10. Run 😊**

!python /content/housegan/updated.py

