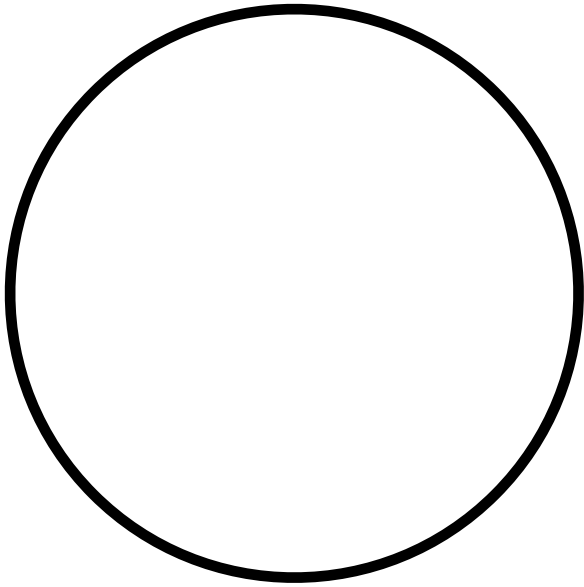


The DatasetGAN [20] paradigm

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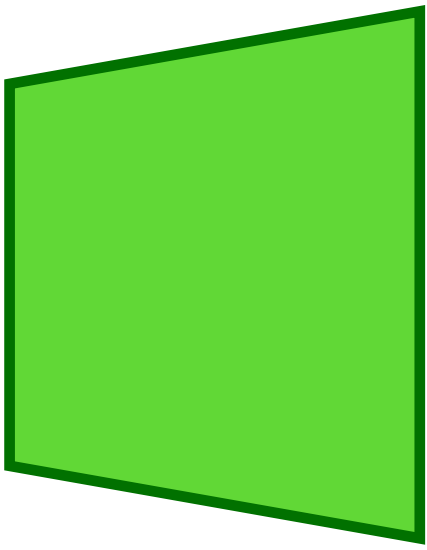
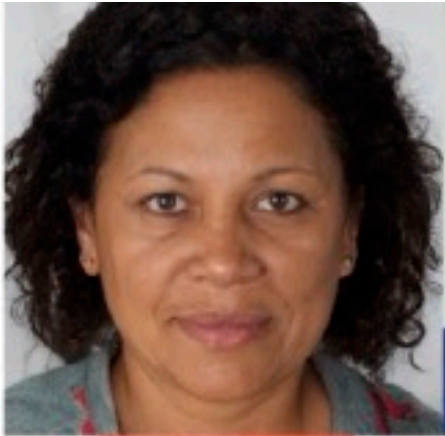


Image Generator







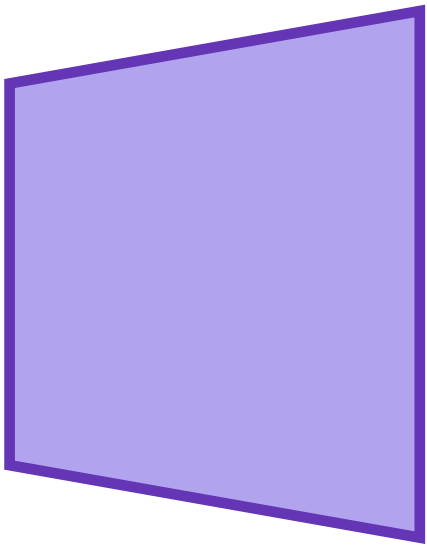




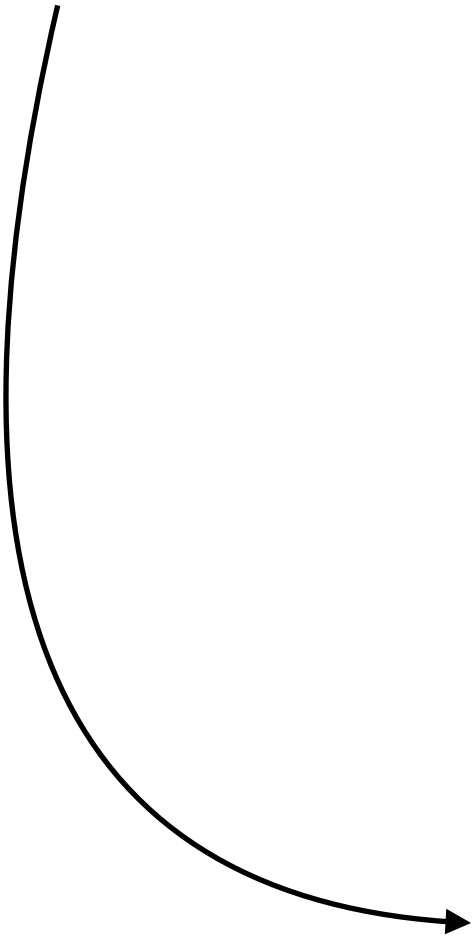
Human
annotator







Label Generator







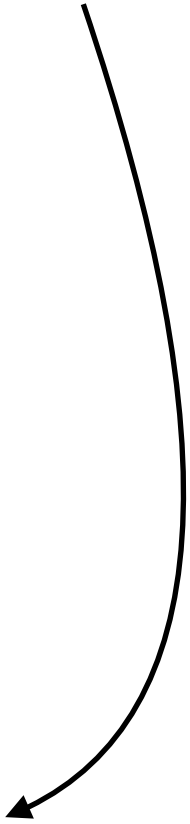


V



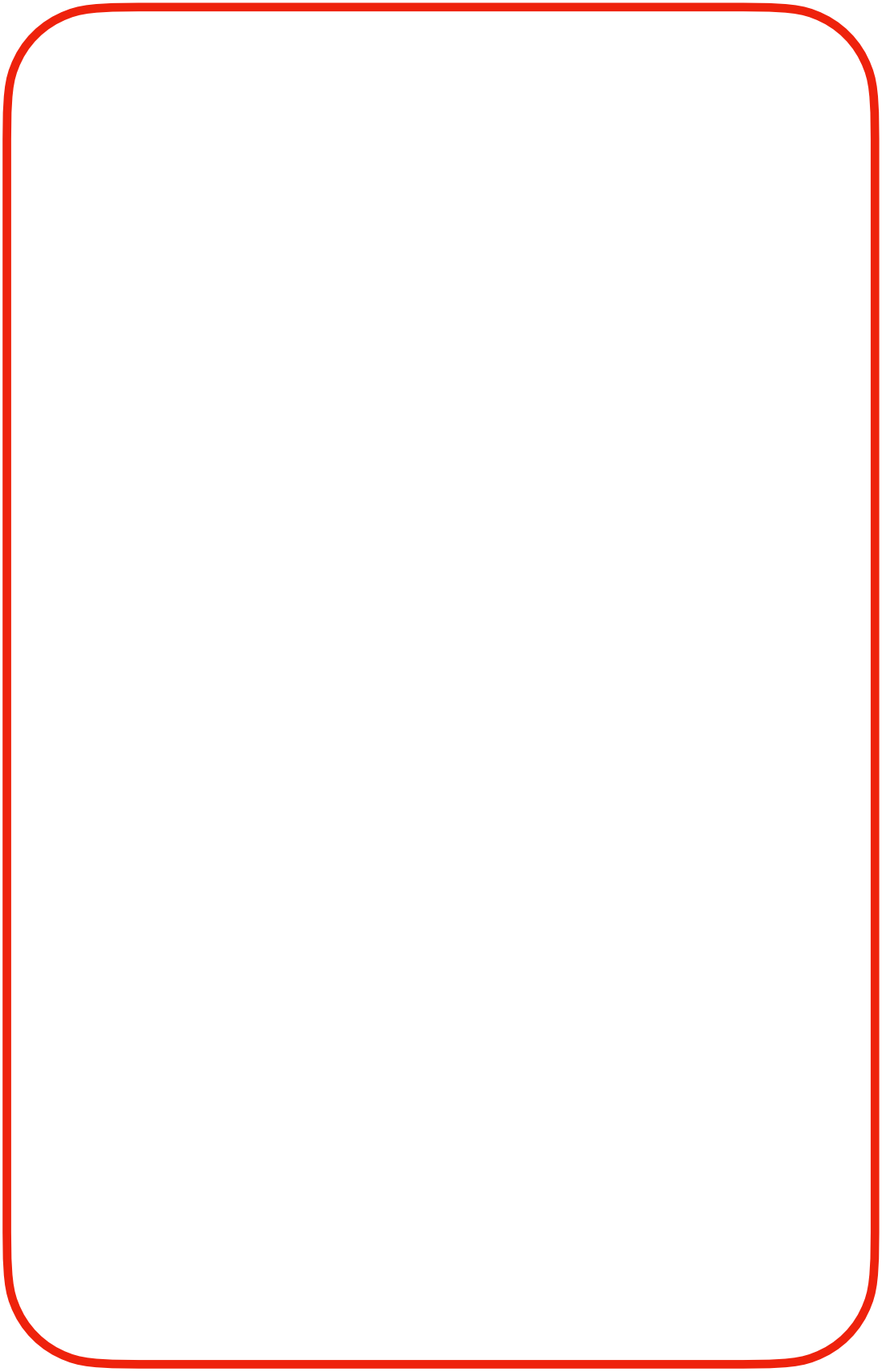


V



Annotate small number of GAN generated images, store latent code and label pairs (v, Y)

Train label generator in supervised way with (\mathcal{V}, Y) pairs

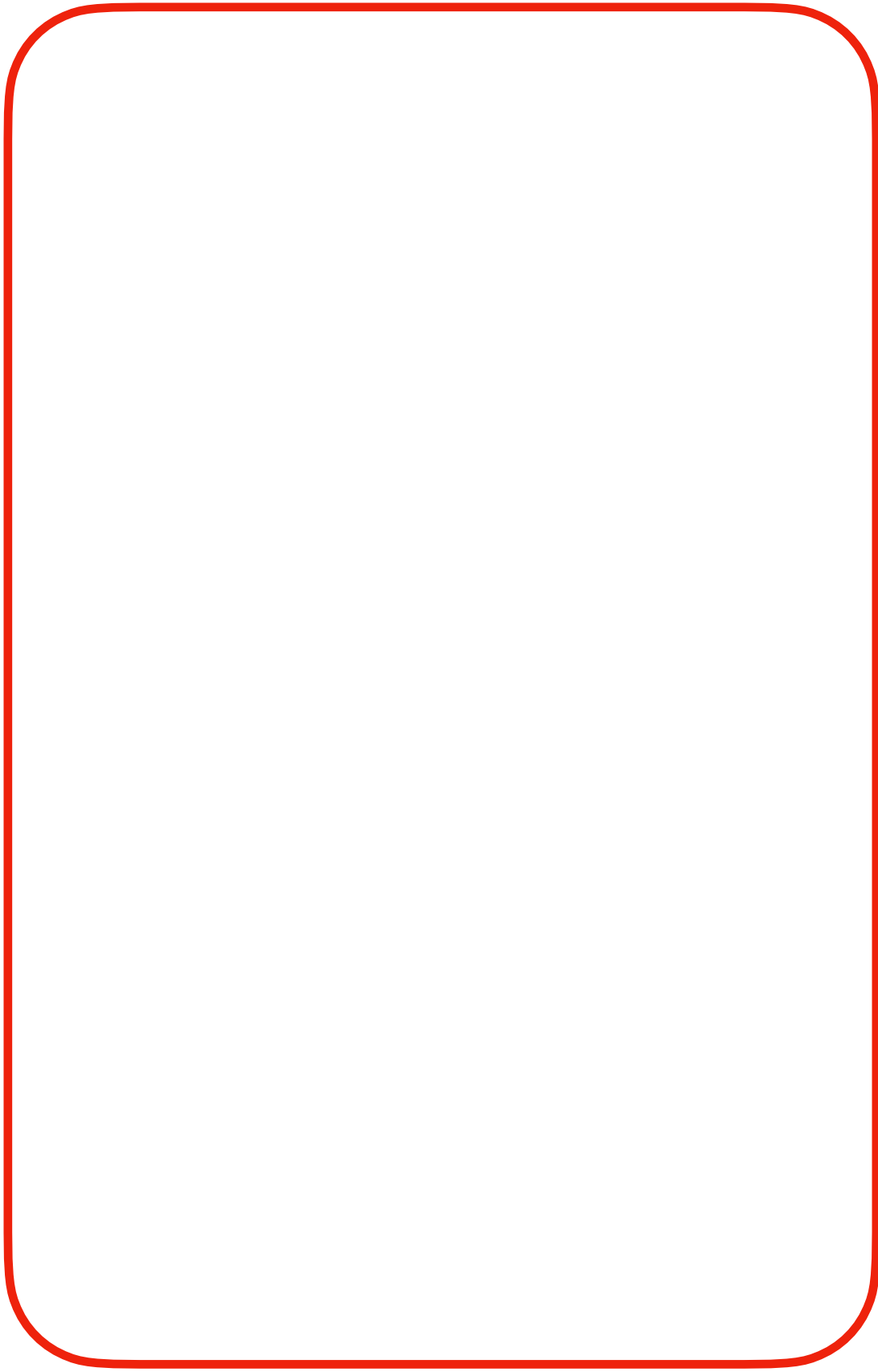


GAN generated images

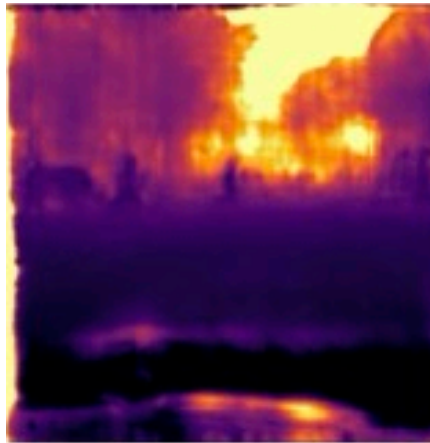
- No manual curation of training data
- Lower quality labels
[21]

Human annotators

- Type of label synthesized must be human label-able
- Practical costs: money, time, infrastructure)





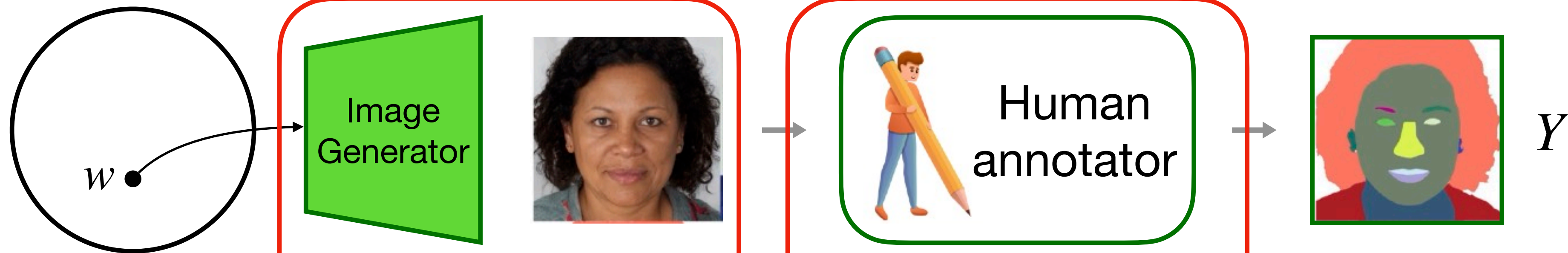


[20] Zhang et al. (2021)

[21] Baranchuk et al. (2022)

The DatasetGAN [20] paradigm

Annotate small number of GAN generated images, store latent code and label pairs (w , Y)



GAN generated images

- No manual curation of training data
- Lower quality labels [21]

Human annotators

- Type of label synthesized must be human label-able
- Practical costs: money, time, infrastructure)



Can we connect existing *real* images and labels to GAN representations?

