

## When to Use Which Normalization?



Large Batch CNNs  
Training CNNs with large batch sizes



Batch Normalization



Transformers / RNNs  
Sequential models, language tasks



Layer Normalization



Style Transfer

Artistic tasks, style manipulation



Small Batch Detection

Object detection, segmentation



## Instance Normalization

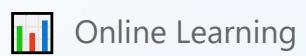


Discriminator stability in GANs



## Spectral Normalization

## Group Normalization



Single sample or streaming data



## Layer / Group Norm

### ⚠ Key Considerations



Batch Size  
Constraints



Computational  
Cost



Architecture  
Type



Task  
Requirements