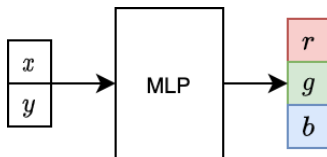# Implicit Neural Representations with Periodic Activation Functions[1]

July 1, 2020

[1]*Implicit Neural Representations with Periodic Activation Functions* by Sitzmann et al., 2020

Overview

- We can represent images/3D-objects/video/audio/etc as *implicit neural representations* (INR)
- INR is a neural network $\Phi(v)$ which takes a coordinates vector v and produces a pixel/voxel/frequency/etc value at that point:

- I.e. one neural network corresponds to a single image.
- Authors showed that it is very helpful to use periodic activation functions