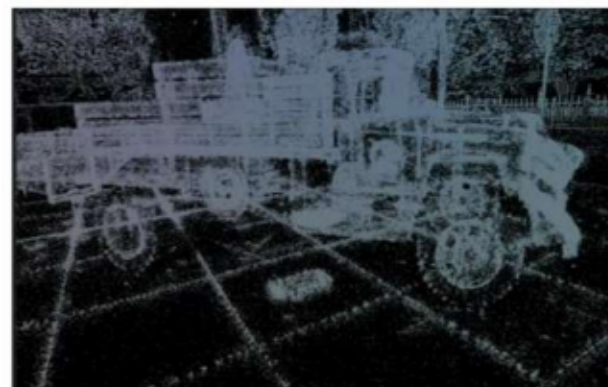


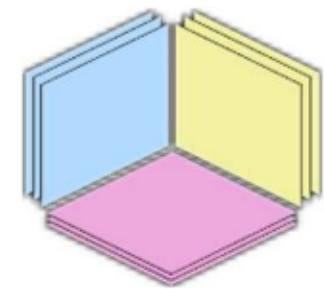


Original 3DGS training

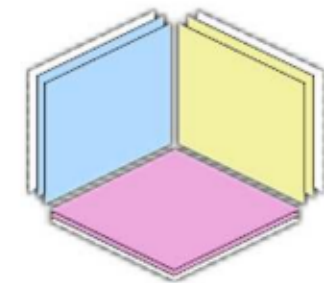


Positions x, y, z
Densification phase

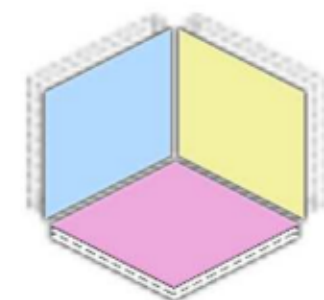
Point initialization



$L = 3$



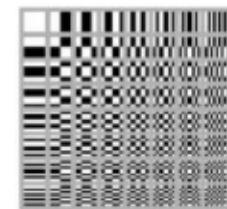
$L = 2$



$L = 1$

Progressive training

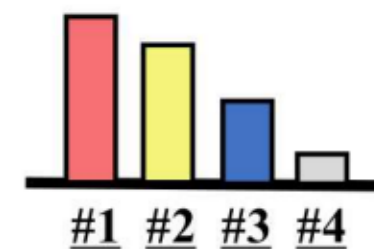
Block-wise DCT



Entropy modeling

$$\mathbb{E} \left[-\log p \left(\tilde{\mathcal{P}} \right) \right]$$

Channel-wise
Importance



Attribute prediction



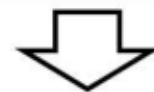
Color \tilde{c}
Scale \tilde{s}
Rotation \tilde{q}
Opacity $\tilde{\sigma}$

Gaussian renderer



Feature plane optimization

Point positions
Feature planes



Channel-to-frame
concatenation



16-bit integer
quantization



Video codec
(HEVC, x265)



Bitstream



Compression