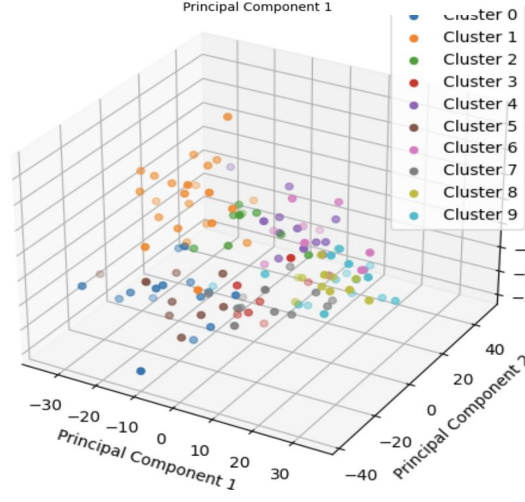
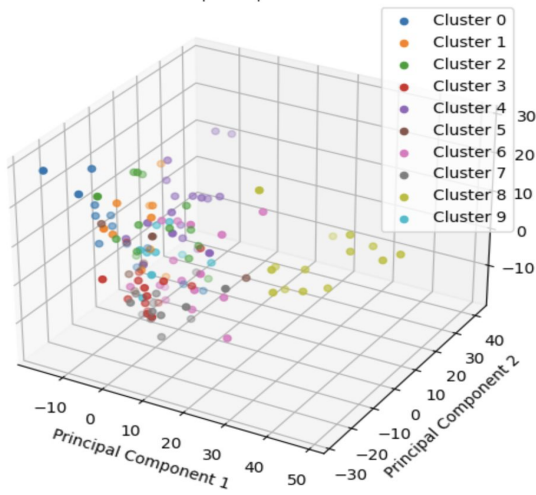
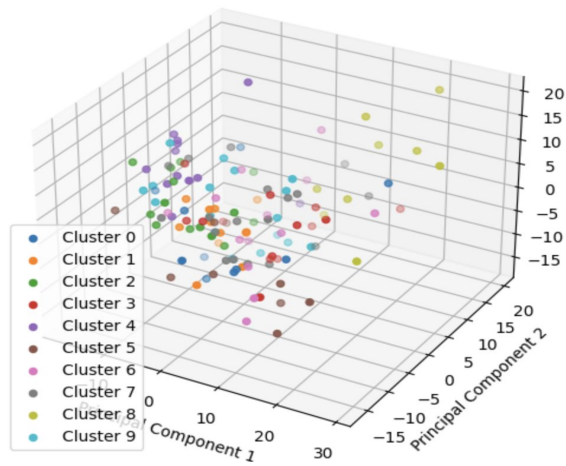
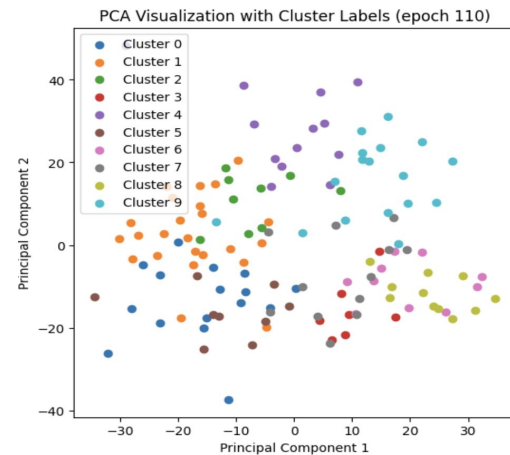
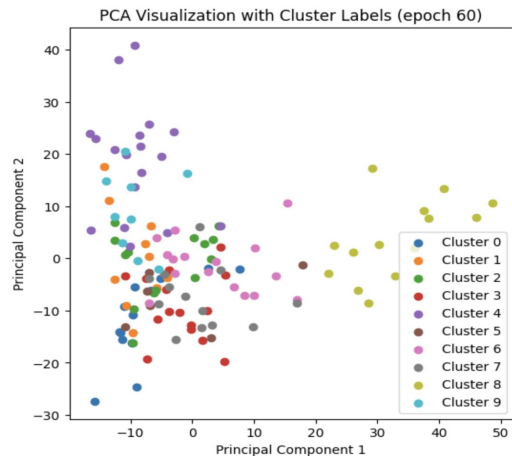
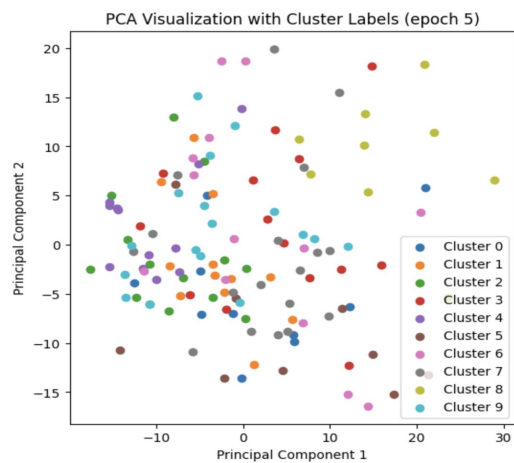




Understanding Representations of Different Art Styles

- 0: 'impressionism'
- 1: 'realism'
- 2: 'romanticism'
- 3: 'expressionism'
- 4: 'baroque'
- 5: 'post impressionism'
- 6: 'art nouveau'
- 7: 'surrealism'
- 8: 'ukiyo-e'
- 9: 'renaissance'

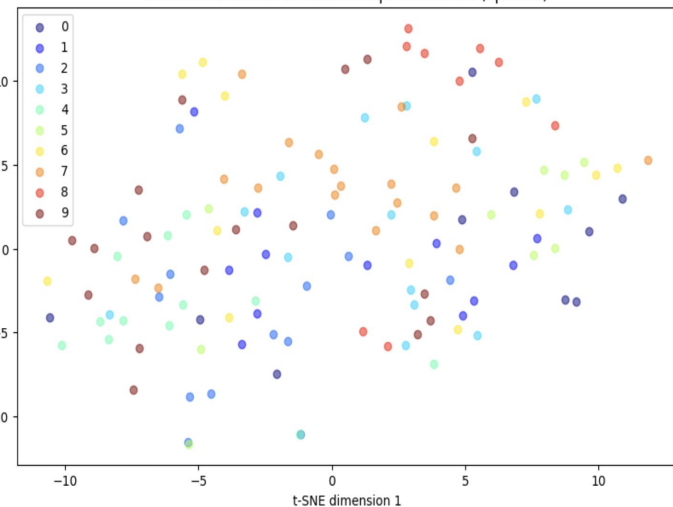
PCA helps us understand how art styles are learned over time, and how linearly distinct each art style is



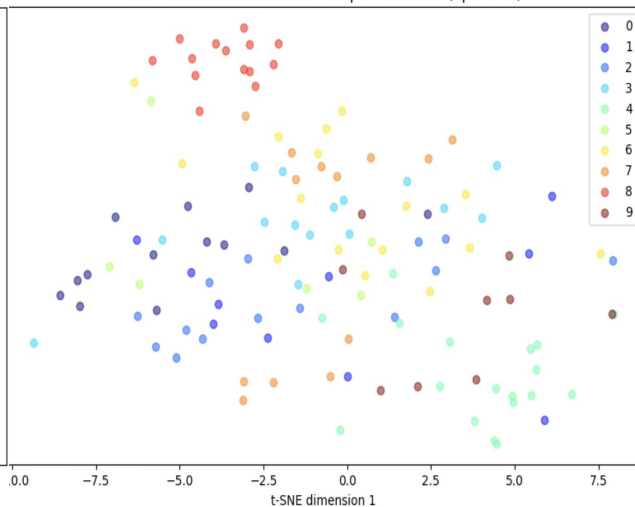
t-SNE helps us understand the non-linear relationships between art forms and how similar each art form is

- Over time, different art forms create clusters (model is learning representations)
- Similar artforms are closer together
 - Baroque (4) and Renaissance (9)
 - Baroque period followed Renaissance and inherited many traits

t-SNE visualization of feature maps with labels (epoch 5)



t-SNE visualization of feature maps with labels (epoch 60)



t-SNE visualization of feature maps with labels (epoch 110)

