**# *Similarity Metrics using LSHWGAN***

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import numpy as np

import matplotlib.pyplot as plt

# Data to plot

n\_groups = 4

means\_precision = (80.23, 83.04, 92.34,94.62)

means\_recall = (80.34, 82.33,92.55,93.65)

means\_f1score = (80.22,86.34,93.15,96.81)

# Create plot

fig, ax = plt.subplots()

index = np.arange(n\_groups)

bar\_width = 0.25

opacity = 0.8

# Plot bars

rects1 = plt.bar(index - bar\_width, means\_precision, bar\_width,

                 alpha=opacity, color='c', label='Precision')

rects2 = plt.bar(index, means\_recall, bar\_width,

                 alpha=opacity, color='m', label='Recall')

rects3 = plt.bar(index + bar\_width, means\_f1score, bar\_width,

                 alpha=opacity, color='y', label='F1-Score')

# Labels, title, and legend

plt.xlabel('Models')

plt.ylabel('Accuracy')

plt.title('Similarity Metrics')

plt.xticks(index, ('SGAN','DCGAN','LSGAN', 'LSHWGAN'))

plt.legend()

plt.tight\_layout()

plt.show(