f1score

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```
[]: import numpy as np
  from sklearn.metrics import f1_score
  #define array of actual; disease(1) occurs 20 times, no-disease(0) occurs
  \rightarrow twice, disease(1) occurs 45 times, no-disease(0) 15 times
  actual = np.repeat([1, 0, 1, 0], repeats = [20, 2, 45, 15])
  #define array of predicted; test-positive(1) occurs 22 times, test-negative(0)_{\sqcup}
  →occurs 60 times
  pred = np.repeat([1, 0], repeats = [22, 60])
  #calculate f1-score
  f1_score(actual, pred)
[]: 0.45977011494252884
[]: actual
[]: pred
```