• F also is a set measure • F1 measure is popular : F with $\beta=1$

• $F=1-E=\frac{(\beta^2+1)pr}{\beta^2p+r}$ • good results mean large values of E

 $F1 = \frac{2pr}{n+r}$

- F1 is in fact the harmonic mean of p and r
- ullet heavily penalizes low values of p or r