1a. i.
$$A(covag =)$$

$$\frac{12}{15} = \frac{4}{5} = 80\%$$

$$iv. Fl Score =)$$

$$= 2 * (.8 \times 2/3)$$

$$= 72.72\%$$

- IC. P(gender-actual="women") is the probability that the actual gender is women.

 P(gender-predicted="runne") gender-accel="runner") is the probability that the redicted gender is women given that the gender is women
 - as many posential women records at the expense of being wrong once in a write. Fl scare seems to balance records

2ai.
$$\frac{1}{3}$$

ii. $\frac{2}{6} = \frac{1}{3}$

iii. $\frac{1}{3}$

iv. $\frac{1}{2}$

2b. $\frac{1}{2} = \frac{1}{3}$

if independent $\frac{1}{2} = \frac{1}{3}$
 $\frac{1}{6} = \frac{1}{4}$
 $\frac{1}{6} = \frac{1}{4}$

```
(OS ((12) = 1.752+4
                                         7.06
           \int 2^{2} + 1.75^{2} + 4 \int 1.75^{2} + 2^{2} 5.25 * 2.66
          2^{2} + 2^{2} + 25^{2}
           + 2 52
           = .51
 Since (Os(b,h) > cos(c,2) -> 2 is more similar to b
  3c. trady -1 0 1 2 -2
        jems 2 3 -3 ° 2.5
     Avy => 05 1.5 -1 1 .25
      Illove go to store he work at rest, is close today am end
 49.
MC+ Nombiled
       Start
        love
                         2
        90
        to
       Store
       he
       work
       at
      rest.
                                                        2
      15
      Cluse
      tuday
      an
```

46.0.2 × 0.5 × 0.5 × 0.5 = 1/2 × 1/2 => 1/9 = 0.025

You would need remove the stopmed "the"

Since that's what we did wim we constructed the

confusion matrix. Then we need to use perplexity

because it accounts for the different sizes of test

corpuses.