binary

Stephen Smitshoek

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```
## Warning: package 'caTools' was built under R version 4.1.3
```

```
##
## Call:
## glm(formula = label ~ x + y, family = binomial(), data = binary_data)
##
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -1.3728  -1.1697  -0.9575   1.1646   1.3989
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  0.424809   0.117224   3.624  0.00029 ***
## x           -0.002571   0.001823  -1.411  0.15836
## y           -0.007956   0.001869  -4.257 2.07e-05 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 2075.8  on 1497  degrees of freedom
## Residual deviance: 2052.1  on 1495  degrees of freedom
## AIC: 2058.1
##
## Number of Fisher Scoring iterations: 4
```

Confidence Matrix

```
##              Predicted_Value
## Actual_Value FALSE TRUE
##            0   429  338
##            1   286  445
```

Accuracy

```
## [1] 0.5834446
```