Handout 8: Confidence interval for proportion supporting gay marriage

```
table(politics$gaymarriage)
## No legal recognition
                                Civil unions Support gay marriage
                    773
                                         992
                                                              2473
#sum up to get n
773+992+2473
## [1] 4238
#estimate p-hat
round(2473/4238,2)
## [1] 0.58
#t-stat
qt(0.975, 4238-1)
## [1] 1.960524
                                        standard error =\sqrt{\hat{p}*(1-\hat{p})/n}=
```

confidence interval = $\hat{p} \pm t * (\texttt{standard error}) =$

Name (Print and Sign):