Confidence Intervals

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Exact binomial Test for Confidence Interval of Specific Trials

Trial 58

```
binom.test(790,800)
```

```
##
##  Exact binomial test
##
## data:  790 and 800
## number of successes = 790, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9771325 0.9939899
## sample estimates:
## probability of success
##                 0.9875
```

Trials 50 and 52

```
binom.test(788,800)
```

```
##
##  Exact binomial test
##
## data:  788 and 800
## number of successes = 788, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9739447 0.9922259
## sample estimates:
## probability of success
##                  0.985
```

Trials 53 and 57

```
binom.test(783,800)
```

```
##
##  Exact binomial test
##
## data:  783 and 800
## number of successes = 783, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9661941 0.9875735
## sample estimates:
## probability of success
##                0.97875
```

Trial 55

```
binom.test(782,800)
```

```
##
##  Exact binomial test
##
## data:  782 and 800
## number of successes = 782, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9646727 0.9866118
## sample estimates:
## probability of success
##                 0.9775
```

Trial 33

```
binom.test(781,800)
```

```
##
##  Exact binomial test
##
## data:  781 and 800
## number of successes = 781, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9631591 0.9856418
## sample estimates:
## probability of success
##                0.97625
```

Trials 51 and 56

```
binom.test(780,800)
```

```
##
##  Exact binomial test
##
## data:  780 and 800
## number of successes = 780, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9616526 0.9846640
## sample estimates:
## probability of success
##                  0.975
```

Trial 47

```
binom.test(779,800)
```

```
##
##  Exact binomial test
##
## data:  779 and 800
## number of successes = 779, number of trials = 800, p-value < 2.2e-16
## alternative hypothesis: true probability of success is not equal to 0.5
## 95 percent confidence interval:
##  0.9601529 0.9836790
## sample estimates:
## probability of success
##                0.97375
```