

# Using SummaryStats and RBD

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## What is SummaryPack

SummaryPack is a set of functions developed to assist the analysis of assigned homework and project from MAT 342 Spring 2019

## SummaryStats()

To do a t.test on a single set of observations

```
SummaryStats(observations)
```

To do a two sample t.test on a set of observations

In this case, treatments has to be two factors

```
SummaryStats(observations, treatments)
```

To do a one way ANOVA

It's the same as above except in this case treatments has to have three or more factors

```
SummaryStats(observations, treatments)
```

For nonparametric data

If the Kruskal-Wallis test is significant, this will run Dunns test

```
SummaryStats(observations, treatments, post.hoc = "Dunn", is.nonparametric = TRUE)
```

## RBD

For the projects requiring two way ANOVAs

In this case, treatments should have three or more factors

```
RBD(observations, treatments, block)
```