

2 x 2 Example

- A 2 x 2 repeated measures design with the factors Sentence Type (Positive vs. Negative) and Context (Positive vs. Negative). DV is reaction time (RT).
- The data file is called DV and is in *long* format (i.e., each row is one observation):

	Subject [^]	Item [^]	RT [^]	Sentence [^]	Context [^]
1	1	3	1270	Positive	Negative
2	1	7	739	Positive	Negative
3	1	11	982	Positive	Negative
4	1	15	1291	Positive	Negative
5	1	19	1734	Positive	Negative
6	1	23	1757	Positive	Negative
7	1	27	1052	Positive	Negative
8	2	4	1706	Positive	Negative
9	2	8	533	Positive	Negative
10	2	12	1009	Positive	Negative
11	2	16	939	Positive	Negative
12	2	20	1848	Positive	Negative
13	2	24	1435	Positive	Negative

Showing 1 to 14 of 1,680 entries

Generating Descriptives

```
> describeBy(DV$RT, group = list(DV$Sentence, DV$Context))
```

```
Descriptive statistics by group
```

```
: Positive
```

```
: Positive
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	420	1579.18	840.61	1427	1467.34	660.5	246	5703	5457	1.92	5.78	41.02

```
: Negative
```

```
: Positive
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	409	1632.85	876.75	1379	1500.97	591.56	325	6223	5898	1.83	4.42	43.35

```
: Positive
```

```
: Negative
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	419	1595.13	886.86	1444	1479.01	748.71	329	7000	6671	2.16	7.97	43.33

```
: Negative
```

```
: Negative
```

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew	kurtosis	se
X1	1	420	1473.96	728.61	1308.5	1384.71	578.21	204	6218	6014	1.65	5.06	35.55