

## T-tests in R

ST411/511 Fall 2013

	Paired t-test	Two Sample t-test
<p><b>case0202:</b> Groups are in different columns</p> <p>Unaffected: column containing responses for Group 1 Affected: column containing responses for Group 2</p>	<pre>t.test(case0202\$Unaffected,        case0202\$Affected, paired = TRUE)</pre> <p>Or</p> <pre>t.test(case0202\$Unaffected -        case0202\$Affected)</pre>	<pre>t.test(case0202\$Unaffected,        case0202\$Affected, var.equal = TRUE)</pre>
<p><b>case0202_2:</b> Groups are in different rows</p> <p>Volume: column containing responses for both groups Status: column containing group membership</p>	<pre>t.test(Volume ~ Status,        data = case0202_2, paired = TRUE)</pre>	<pre>t.test(Volume ~ Status,        data = case0202_2, var.equal = TRUE)</pre>

```
> head(case0202)
  Unaffected Affected twin
1      1.94     1.27    1
2      1.44     1.63    2
3      1.56     1.47    3
4      1.58     1.39    4
5      2.06     1.93    5
6      1.66     1.26    6
```

```
> head(case0202_2)
  twin      Status Volume
1    1 Unaffected  1.94
2    2 Unaffected  1.44
3    3 Unaffected  1.56
4    4 Unaffected  1.58
5    5 Unaffected  2.06
6    6 Unaffected  1.66
```