

## tabular

We make a sample data frame.

```
> x <- data.frame(  
+   study=c(rep('PROT01',5),NA),  
+   subject=rep(c(1001,1002),each=3),  
+   time=c(0,1,2,0,1,2),  
+   conc=c(0.12,34,5.6,.5,200,NA)  
+ )  
> x
```

```
   study subject time  conc  
1 PROT01    1001   0  0.12  
2 PROT01    1001   1 34.00  
3 PROT01    1001   2   5.60  
4 PROT01    1002   0   0.50  
5 PROT01    1002   1 200.00  
6  <NA>    1002   2    NA
```

Now we try various invocations.

```
> writeLines(ltable(x))
```

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

```
> writeLines(ltable(x,environments=NULL))
```

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

```
> writeLines(ltable(x,caption='Plasma Concentrations',label='pctab'))
```

Table 1: Plasma Concentrations

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

Table 2: Plasma Concentrations

```
> writeLines(ltable(x,caption='Plasma Concentrations',cap.top=FALSE))
```

```
> writeLines(ltable(x,grid=TRUE,caption='grid is TRUE'))
```

Table 3: grid is TRUE

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

```
> writeLines(ltable(x,grid=TRUE,caption='Includes Walls',walls=1,rules=c(1,2,1)))
```

```
> writeLines(ltable(x,grid=TRUE,caption='Custom Breaks',
+   colbreaks=c(0,2,0),rowgroups=x$subject
+ ))
```

Table 4: Includes Walls

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

Table 5: Custom Breaks

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

```
> writeLines(ltable(x,grid=TRUE,caption='Custom Justify',
+   numjust='left',charjust='right'
+ ))
```

Table 6: Custom Justify

| study  | subject | time | conc   |
|--------|---------|------|--------|
| PROT01 | 1001    | 0    | 0.12   |
| PROT01 | 1001    | 1    | 34.00  |
| PROT01 | 1001    | 2    | 5.60   |
| PROT01 | 1002    | 0    | 0.50   |
| PROT01 | 1002    | 1    | 200.00 |
|        | 1002    | 2    |        |

```
> writeLines(ltable(x,grid=TRUE,caption='Decimal Align',
+   justify=c('center','left','right','decimal')
+ ))
```

Table 7: Decimal Align

| study  | subject | time | conc |
|--------|---------|------|------|
| PROT01 | 1001    | 0    | 0.12 |
| PROT01 | 1001    | 1    | 34   |
| PROT01 | 1001    | 2    | 5.6  |
| PROT01 | 1002    | 0    | 0.5  |
| PROT01 | 1002    | 1    | 200  |
|        | 1002    | 2    |      |

```
> writeLines(ltable(x,grid=TRUE,caption='No Monospace',
+   justify=c('center','left','right','decimal'),
+   monospace=FALSE
+ ))
```

Table 8: No Monospace

| study  | subject | time | conc |
|--------|---------|------|------|
| PROT01 | 1001    | 0    | 0.12 |
| PROT01 | 1001    | 1    | 34   |
| PROT01 | 1001    | 2    | 5.6  |
| PROT01 | 1002    | 0    | 0.5  |
| PROT01 | 1002    | 1    | 200  |
|        | 1002    | 2    |      |

```
> writeLines(ltable(x,grid=TRUE,caption='Custom Column Width',
+   justify=c('center','left','right','decimal'),
+   colwidth=c(NA,NA,NA,'2cm')
+ ))
```

Table 9: Custom Column Width

| study  | subject | time | conc |
|--------|---------|------|------|
| PROT01 | 1001    | 0    | 0.12 |
| PROT01 | 1001    | 1    | 34   |
| PROT01 | 1001    | 2    | 5.6  |
| PROT01 | 1002    | 0    | 0.5  |
| PROT01 | 1002    | 1    | 200  |
|        | 1002    | 2    |      |