

Wirtschaftsmathematik

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Wir geben Impulse

- 1 Intro
- 2 Using R
- 3 RMarkdown Examples

Slide with bullets

- Bullet 1
- Bullet 2
- Bullet 3

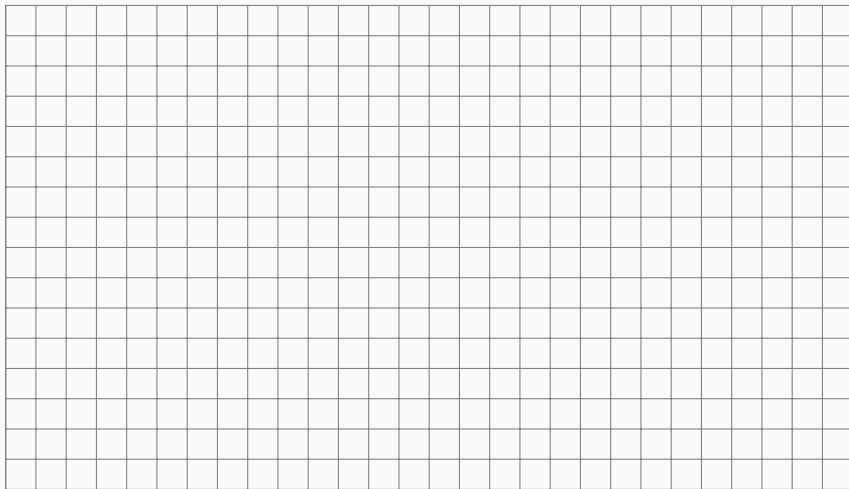
Use \alert to **highlight** some text

Some enumeration

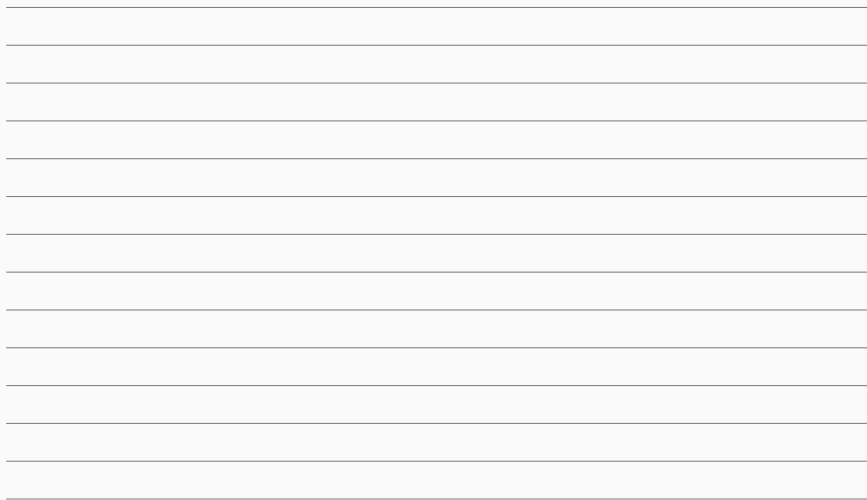
- 1 The first item
- 2 Stuff
- 3 Nonsense

Squared Paper

- `\squared{}` (or `\kariert{}`) can be used to produce squared paper



- `\lined{}` (or `\liniert{}`) can be used to produce lined paper



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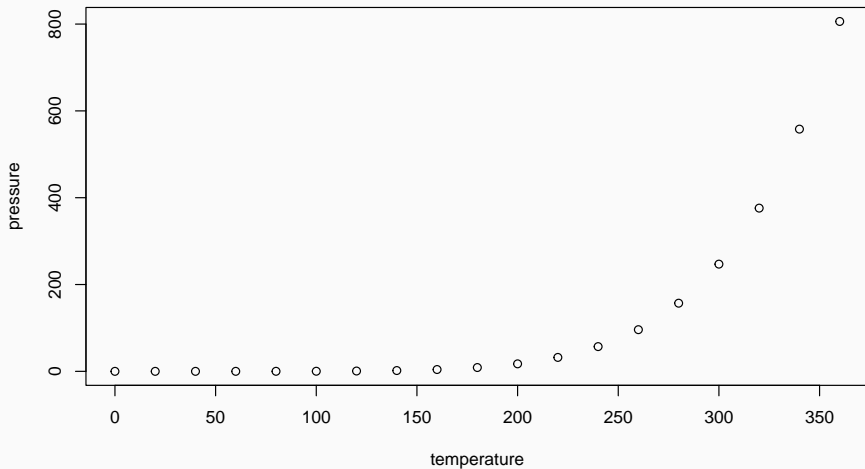
Slide with R output

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.    :  2
## 1st Qu.:12.0    1st Qu.: 26
## Median :15.0    Median : 36
## Mean   :15.4    Mean    : 43
## 3rd Qu.:19.0    3rd Qu.: 56
## Max.   :25.0    Max.    :120
```

Slide with graphics

```
plot(pressure)
```



Quantile score for observation y . For $0 < p < 1$:

$$S(y_t, q_t(p)) = \begin{cases} p(y_t - q_t(p)) & \text{if } y_t \geq q_t(p) \\ (1 - p)(q_t(p) - y_t) & \text{if } y_t < q_t(p) \end{cases}$$

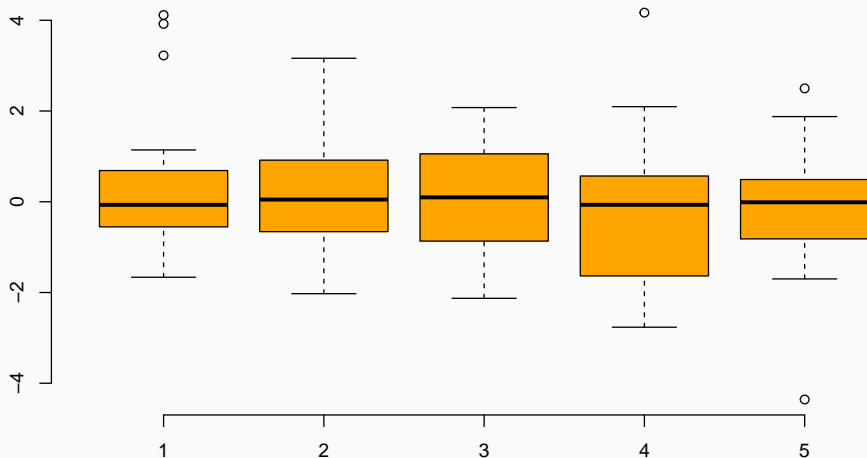
Average score over all percentiles gives the best distribution forecast:

$$QS = \frac{1}{99T} \sum_{p=1}^{99} \sum_{t=1}^T S(q_t(p), y_t)$$

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The following code generates the plot on the next slide (taken from `help(bxp)` and modified slightly):

```
library(stats)
set.seed(753)
bx.p <- boxplot(split(rt(100, 4),
                      gl(5, 20)), plot=FALSE)
bxp(bx.p, notch = FALSE, boxfill = "orange",
    frame = FALSE, outl = TRUE,
    main = "Example from help(bxp)")
```

Example from `help(bxp)`

A simple `knitr::kable` example:

```
knitr::kable(mtcars[1:4, 1:7],  
             caption="(Parts of) the mtcars dataset")
```

Tabelle 1: (Parts of) the mtcars dataset

	mpg	cyl	disp	hp	drat	wt	qsec
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02
Datsun 710	22.8	4	108	93	3.85	2.320	18.61
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44

For more information:

- See the RMarkdown repository for more on RMarkdown
- See the binb repository for more on binb
- See the binb vignettes for more examples.