Introduction to chunks

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Our own chunk

Parameters of the chunks

Code	Meaning
`echo`	If we match it to `TRUE`, which is the default value, we will be saying that we want the source code of the chunk to be displayed. On the other hand, equal to `FALSE`, it will not be shown
`eval`	If we equate it to `TRUE`, which is the default value, we will be saying that we want the code to be evaluated. On the other hand, equal to `FALSE`, it will not be evaluated
`message`	It allows us to indicate if we want to show the messages that R produces when executing code. Matched to `TRUE` are displayed, matched to`FALSE` no
`warning`	It allows us to indicate if we want to display the warning messages that produce some functions when executed. Matched to `TRUE` are displayed, matched to`FALSE` no

results parameters

Meaning	Code	Result
`results`	`markup`	Default value. It shows us the results in the final document line by line, headed by `##`
`results`	`hide`	The result is not shown in the final document
`results`	`asis`	We return the results line by line literally in the final document and the program with which the final document is opened is interpreted as text and properly formatted
`results`	`hold`	Show all results at the end of the code block

We will calculate $\sqrt{2} - e^{-2}$:

```r
sqrt(2) - exp(-2)
```

```
## [1] 1.278878
```

```r
library(magic)
```

```
Loading required package: abind
```

```r
magic(6)
```

```
     [,1] [,2] [,3] [,4] [,5] [,6]
[1,]    7    6   35   34   15   14
[2,]    8    5   33   36   16   13
[3,]   27   26   19   18   11   10
[4,]   25   28   20   17    9   12
[5,]   23   22    3    2   31   30
[6,]   21   24    1    4   29   32
```

```r
library(car)
```

```
## Loading required package: carData
```

```r
head(cars,3)
```

```
##   speed dist
## 1     4    2
## 2     4   10
## 3     7    4
```

When we want to make the square of two:

- In LaTeX: $\sqrt{2}$
- In `R` doing 1.4142136
- Combining: $\sqrt{2} = 1.4142136$

The number π start with 3.1415927

Example using chunk in a paragraph

To introduce a part of code within a paragraph and to execute it when the document is compiled showing the final result, it must be done using `r ...`

Example

The square root of 64 is `r sqrt(64)` or, which is the same thing, $\sqrt{64} =$ `r sqrt(64)`

The fifth root of 32 is 2 o, which is the same thing, $\sqrt[5]{64} = 2$.

Another example

This year I have done $n = 9$ exams, with an average of $\overline{x} = 6.78$ and an standard deviation of $s = 2.39$