

Introduction to chunks

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Our own chunk

Parameters of the chunks

Code	Meaning
<code>echo</code>	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
<code>eval</code>	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
<code>message</code>	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
<code>warning</code>	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
<code>results</code>	<code>markup</code>	Default value. It shows us the results in the final document line by line, headed by ##
<code>results</code>	<code>hide</code>	The result is not shown in the final document
<code>results</code>	<code>asis</code>	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
<code>results</code>	<code>hold</code>	Show all results at the end of the code block

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

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

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

```
library(magic)
```

```
Loading required package: abind
```

```
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
```

```
library(car)
```

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

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

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

When we want to make the square of two:

- In L^AT_EX: $\sqrt{2}$
- 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, $\sqrt{64} = \text{r sqrt}(64)$

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 $\bar{x} = 6.78$ and an standard deviation of $s = 2.39$