

BIA Lab 1 – Exercise 1

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In this exercise, the goal will be to reproduce the following display:

Dans cet exercice, le but va être de reproduire la représentation suivante :

▼ Exercise: Some simple Statistics tasks

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2. Mean Squared Error
 - A. Bias of an estimator
 - B. Variance of an estimator

▼ 1. The Arithmetic Mean

$$Mean(x) = \sum_{i=1}^n x_i$$

Embedded a formatted code block:

```
x=[1,3,9,4]
x_bar=1/4*sum(x)
```

```
[2] # actual python calculation
x=[1,3,9,4]
x_bar=1/len(x)*sum(x)
x_bar
```

 4.25

2. Mean Squared Error

$$MSE(x) = bias^2(x) + var^2(x)$$

For further information see <http://www.statisticshowto.com/mean-squared-error>