

Installation

You can run BI on python or R. For R users you need to have installed python and the R [reticulate](#) package.

Python

```
pip install BayesInference
```

R

```
package.install(BayesInference)
```

Import BI class

Before anything else, you need to import the BI class. This will allow you to create a BI object that will be used to : 1) import data, 2) define the model, 3) fit the model, 4) summarize the results, and 5) plot the results.

Python

```
from BI import bi  
m = bi()
```

R

```
library(BayesInference)  
m=importBI(platform='cpu')
```

Import data

The BI class can import data from a csv file or from a dictionary for data that can't be stored in a tabular format.

Import tabular data from a csv file

Python

```
m.data(data_path, sep=';')
```

R

```
m$data(data_path, sep=';')
```

Import non tabular data

First you need to create our own dictionary with the data. ::: {.panel-tabset group="language"}
Python

```
m.data_on_model = dict(  
    ID1 = Value1,  
    ID2 = Value2,  
)
```

R

```
keys <- c("ID1","ID2")  
values <- list(Value1,Value2)  
data = py_dict(keys, values, convert = TRUE)  
m$data_on_model=data
```

::: # Define model A function that declare a mathematical model need to be defined first and sent it to the BI class. ::: {.panel-tabset group="language"} ## Python

```
def model(ID1, ID2):  
    # Define model here  
    pass
```

R

```
model <- function(ID1, ID2){  
  # Define model here  
  pass  
}
```