

TITLE

SUBTITLE

by

Name

TBD

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Chapter 1

My Notebook

1.1 Start importing

1.1.1 Some theory

The Wasserstein Distance for 1D distributions can be obtained by:

$$\int_0^1 |C_\alpha^{-1}(r) - C_\beta^{-1}(r)|^p dr$$

Where C_α^{-1} is the quantile function for the distribution α (the inverse of the Cumulative Distribution Function). Write some more markdown, with **bold text here** and *italics* and [a link here](#), another **bold** and *more italics* and **another**. Ends with two figures

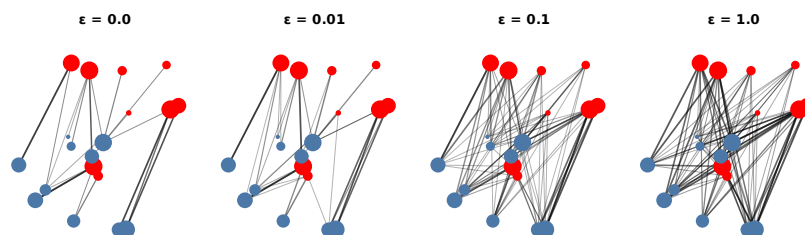


Figure 1.1: Figure

and

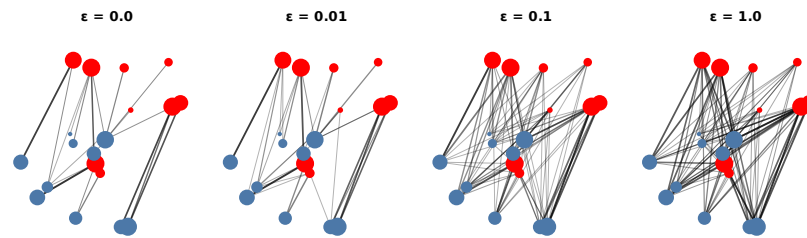
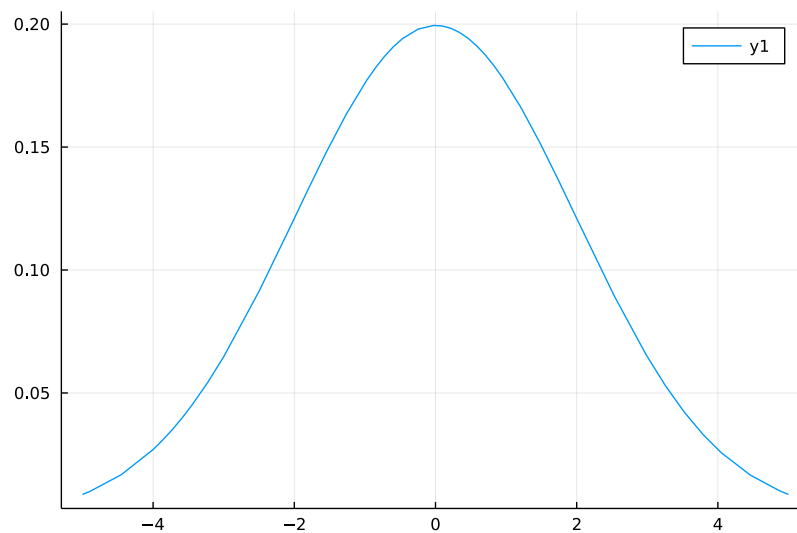


Figure 1.2: Figure 2

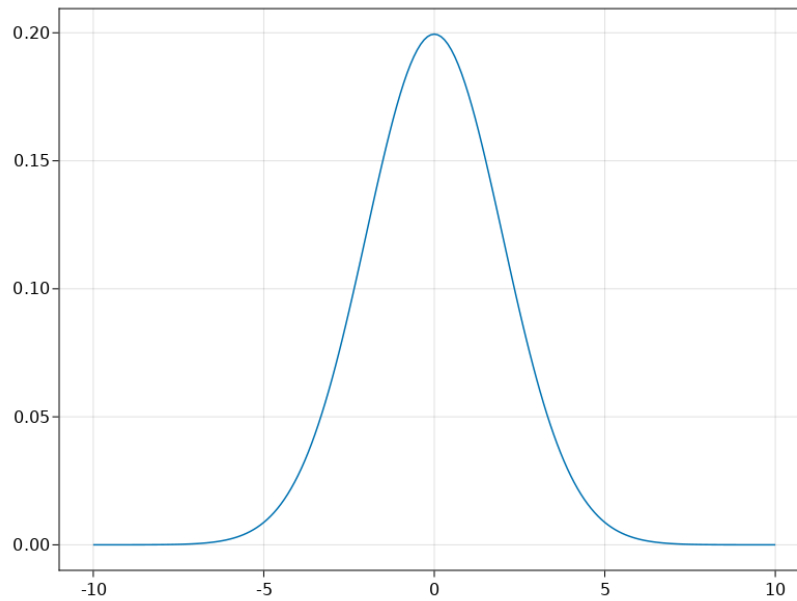
again.

```
1  $\mu(x) = \text{pdf}(\text{Normal}(0,2),x)$ 
2 println("Myplot")
3 Plots.plot( $\mu$ )
```

Myplot



```
1 Makie.lines(-10:0.1:10,  $\mu.(-10:0.1:10)$ )
```



```
1 function example( $\mu$ )  
2     for i in 1:10  
3         println( $\mu$ (i))  
4     end  
5 end  
6 example( $\mu$ )
```

```
0.17603266338214976  
0.12098536225957168  
0.06475879783294587  
0.02699548325659403  
0.00876415024678427  
0.0022159242059690038  
0.0004363413475228801  
6.691511288244268e-5  
7.991870553452737e-6  
7.433597573671488e-7
```

```
0.17603266338214976
```

```
0.12098536225957168  
0.06475879783294587  
0.02699548325659403  
0.00876415024678427  
0.0022159242059690038  
0.0004363413475228801  
6.691511288244268e-5  
7.991870553452737e-6  
7.433597573671488e-7
```

```
1 rand(10)
```

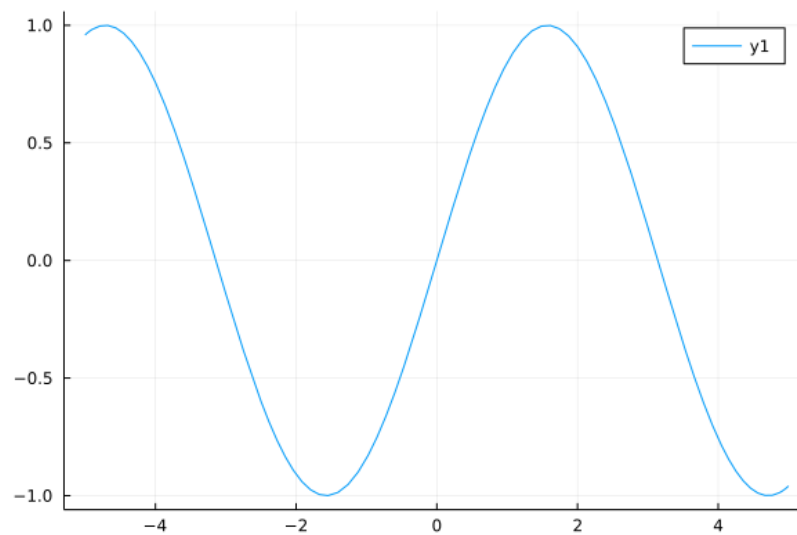


Figure 1.3: Figure2

A raw cell

```
1 DataFrame(x=rand(10),y=rand(10))
```

	x	y
	Float64	Float64
1	0.0326174	0.589007
2	0.368715	0.690396
3	0.366451	0.803439
4	0.212434	0.581906
5	0.140433	0.678201
6	0.329857	0.50792
7	0.828484	0.0507595
8	0.480084	0.021381
9	0.784926	0.504361
10	0.43102	0.316321