Title

Subtitle

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Contents

Chapter 1

My Notebook

1.1 Start importing

1.1.1 Some theory

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

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

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

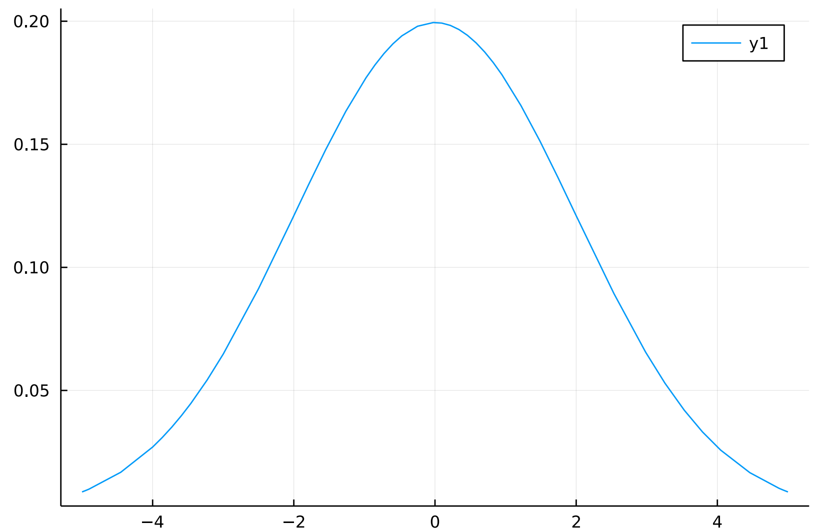
and

Figure 1.2: Figure 2

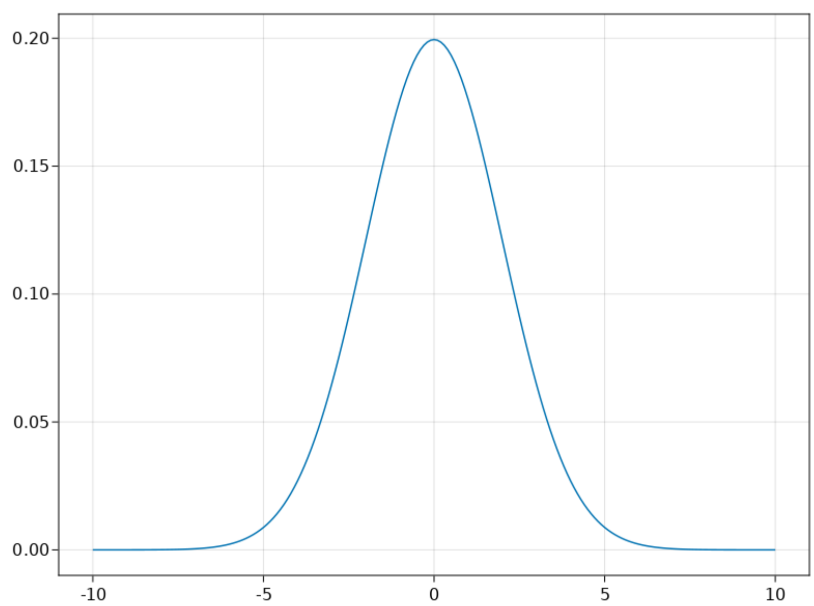
again.

```
μ(x) = pdf(Normal(0,2),x)
println("Myplot")
Plots.plot(μ)
```

Myplot




```
Makie.lines(-10:0.1:10, μ.(-10:0.1:10))
```



```
function example(μ)
    for i in 1:10
        println(μ(i))
    end
end
example(μ)
```

```
0.17603266338214976
0.12098536225957168
0.06475879783294587
0.02699548325659403
0.00876415024678427
0.0022159242059690038
0.00043634134752288010
6.691511288244268e-5
7.991870553452737e-6
7.433597573671488e-7
```


```
0.17603266338214976
0.12098536225957168
0.06475879783294587
0.02699548325659403
0.00876415024678427
0.0022159242059690038
0.00043634134752288010
6.691511288244268e-5
7.991870553452737e-6
7.433597573671488e-7
```


```
rand(10)
```

./figures/plotexample.png

Figure 1.3: Figure2

A raw cell

```
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