

TITLE

SUBTITLE

*by*

*Name*

TBD

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# Chapter 1

## My Notebook

### 1.1 Start importing

#### 1.1.1 Some theory

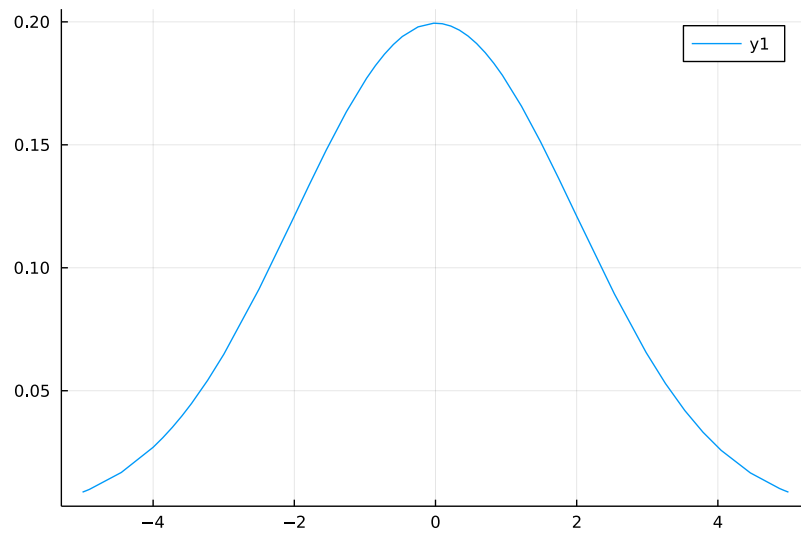
The Wasserstein Distance for 1D distributions can be obtained by:

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

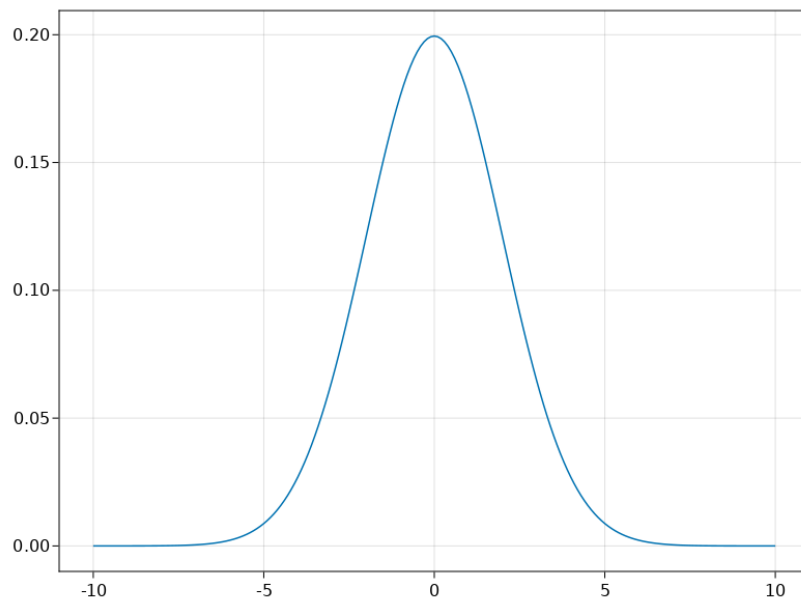
Where  $C_\alpha^{-1}$  is the quantile function for the distribution  $\alpha$  (the inverse of the Cumulative Distribution Function). Write some more markdown, with **bold text here** and *italics* and [a link here](#), another **bold** and *more italics* and [another](#). Ends with two figures [figure.svg](#)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

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

```
Any["Myplot\n"]
```



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



```
1 function example(μ)
```

```

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

```

```
Any["0.17603266338214976\n", "0.12098536225957168\n", "0.06475879783295\n", "7.991870553452737e-6\n", "7.433597573671488e-7\n"]
```

```
Any["0.17603266338214976\n", "0.12098536225957168\n", "0.06475879783295\n", "7.991870553452737e-6\n", "7.433597573671488e-7\n"]
```

```
1 rand(10)
```

[plotexample.png](#)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