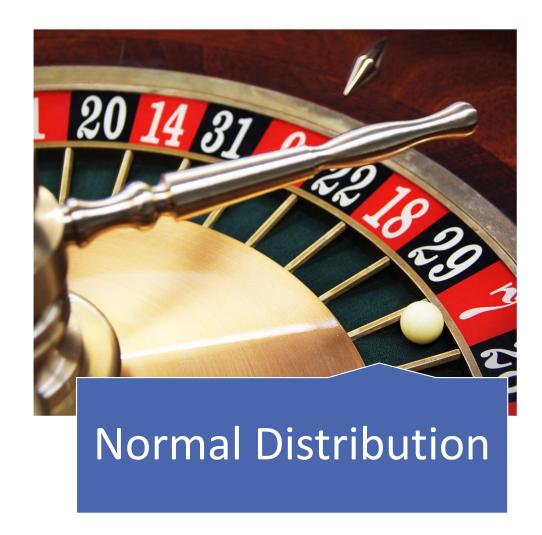
### Statistics – The Normal Distribution



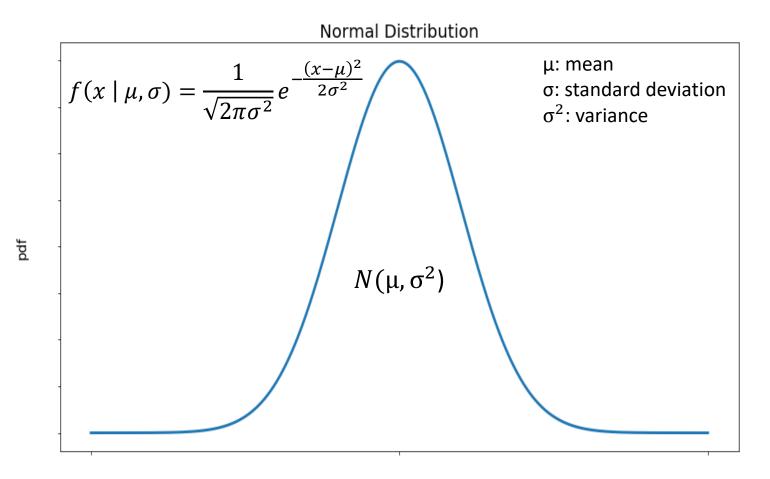
What are the properties of a Normal Distribution?

#### **Normal Distribution**

#### The Normal Distribution:

Many random variables in nature, science and other fields (approx.) follow a Normal Distribution.

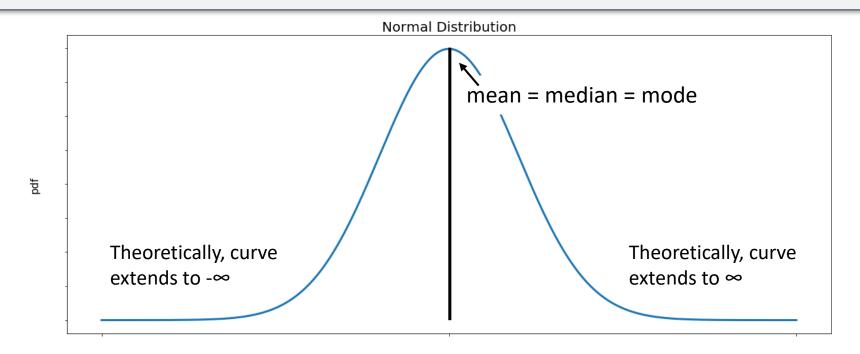
Properties are very useful for inferential statistics (Central Limit Theorem).



# Normal Distribution - Properties

#### **Properties**

- completely described by mean and standard deviation / variance
- symmetrical around the mean -> Skew = 0
- Kurtosis = 3 / Excess Kurtosis = 0



# Normal Distribution – the 68%, 95%, 99.7% rule

