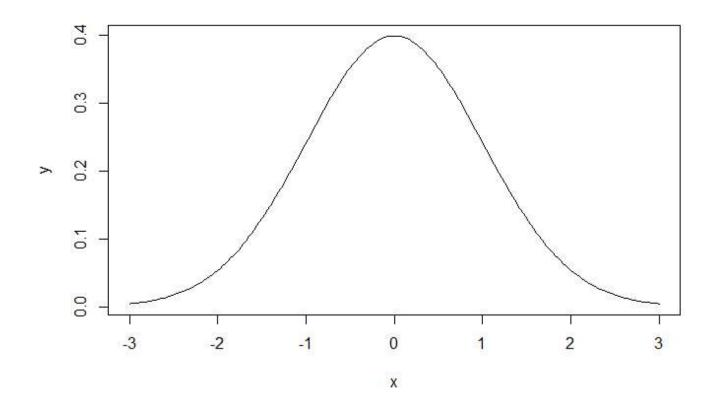
## Statistical Inference Theory - Lab 4

Code **▼** 

CB.SC.I5DAS20032



qnorm(0.95)

[1] 1.644854

Hide

qnorm(0.975)

[1] 1.959964

library(MASS)
head(survey)

Sex <fctr></fctr>	<b>Wr.Hnd</b> <dbl></dbl>	NW.Hnd W.Hnd <dbl> <fctr></fctr></dbl>	Fold <fctr></fctr>	Pulse Clap <int> <fctr></fctr></int>	Exer <fctr></fctr>	Smoke <fctr></fctr>
1 Female	18.5	18.0 Right	R on L	92 Left	Some	Never
2 Male	19.5	20.5 Left	R on L	104 Left	None	Regul

Hide

Sex <fctr></fctr>	Wr.Hnd <dbl></dbl>	NW.Hnd W.Hnd       	Fold <fctr></fctr>	Pulse Clap <int> <fctr></fctr></int>	Exer <fctr></fctr>	Smoke <fctr></fctr>
3 Male	18.0	13.3 Right	L on R	87 Neither	None	Occas
4 Male	18.8	18.9 Right	R on L	NA Neither	None	Never
5 Male	20.0	20.0 Right	Neither	35 Right	Some	Never
6 Female	18.0	17.7 Right	L on R	64 Right	Some	Never
6 rows I 1-10	of 12 columns					

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height.survey = survey\$Height

mean(height.survey, na.rm = TRUE)

[1] 172.3809

Hide

n = length(height.survey)

sigma = 9.48

sem = sigma/sqrt(n)

sem

[1] 0.6157922

Hide

qnorm(0.959964)

[1] 1.750268

Hide

E = qnorm(0.975)\*sem

xbar = mean(height.survey, na.rm = TRUE)

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xbar + c(-E, E)

[1] 171.1739 173.5878