

# LDA final project

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```
# save data in separate folder "final_data" one directory up
data <- read.csv("../final_data/frmgham2.csv")
```

```
library(psych)
describe(data)[,c(2,3,4,5,8,9,10,13)]
```

##		n	mean	sd	median	min	max
##	RANDID	11627	5004740.92	2900877.44	5006008.00	2448.00	9999312.0
##	SEX	11627	1.57	0.50	2.00	1.00	2.0
##	TOTCHOL	11218	241.16	45.37	238.00	107.00	696.0
##	AGE	11627	54.79	9.56	54.00	32.00	81.0
##	SYSBP	11627	136.32	22.80	132.00	83.50	295.0
##	DIABP	11627	83.04	11.66	82.00	30.00	150.0
##	CURSMOKE	11627	0.43	0.50	0.00	0.00	1.0
##	CIGPDAY	11548	8.25	12.19	0.00	0.00	90.0
##	BMI	11575	25.88	4.10	25.48	14.43	56.8
##	DIABETES	11627	0.05	0.21	0.00	0.00	1.0
##	BPMEDS	11034	0.09	0.28	0.00	0.00	1.0
##	HEARTRTE	11621	76.78	12.46	75.00	37.00	220.0
##	GLUCOSE	10187	84.12	24.99	80.00	39.00	478.0
##	educ	11332	1.99	1.03	2.00	1.00	4.0
##	PREVCHD	11627	0.07	0.26	0.00	0.00	1.0
##	PREVAP	11627	0.05	0.23	0.00	0.00	1.0
##	PREVMI	11627	0.03	0.18	0.00	0.00	1.0
##	PREVSTRK	11627	0.01	0.11	0.00	0.00	1.0
##	PREVHYP	11627	0.46	0.50	0.00	0.00	1.0
##	TIME	11627	1957.02	1758.78	2156.00	0.00	4854.0
##	PERIOD	11627	1.90	0.81	2.00	1.00	3.0
##	HDL	3027	49.36	15.63	48.00	10.00	189.0
##	LDL	3026	176.47	46.86	173.00	20.00	565.0
##	DEATH	11627	0.30	0.46	0.00	0.00	1.0
##	ANGINA	11627	0.16	0.37	0.00	0.00	1.0
##	HOSPMI	11627	0.10	0.30	0.00	0.00	1.0
##	MI_FCHD	11627	0.15	0.36	0.00	0.00	1.0
##	ANYCHD	11627	0.27	0.44	0.00	0.00	1.0
##	STROKE	11627	0.09	0.29	0.00	0.00	1.0
##	CVD	11627	0.25	0.43	0.00	0.00	1.0
##	HYPERTEN	11627	0.74	0.44	1.00	0.00	1.0
##	TIMEAP	11627	7241.56	2477.78	8766.00	0.00	8766.0
##	TIMEMI	11627	7593.85	2136.73	8766.00	0.00	8766.0
##	TIMEMIFC	11627	7543.04	2192.12	8766.00	0.00	8766.0
##	TIMECHD	11627	7008.15	2641.34	8766.00	0.00	8766.0
##	TIMESTRK	11627	7660.88	2011.08	8766.00	0.00	8766.0
##	TIMECVD	11627	7166.08	2541.67	8766.00	0.00	8766.0
##	TIMEDTH	11627	7854.10	1788.37	8766.00	26.00	8766.0
##	TIMEHYP	11627	3598.96	3464.16	2429.00	0.00	8766.0
##			range	se			
##	RANDID	9996864.00	26902.68				
##	SEX	1.00	0.00				

## TOTCHOL	589.00	0.43
## AGE	49.00	0.09
## SYSBP	211.50	0.21
## DIABP	120.00	0.11
## CURSMOKE	1.00	0.00
## CIGPDAY	90.00	0.11
## BMI	42.37	0.04
## DIABETES	1.00	0.00
## BPMEDS	1.00	0.00
## HEARTRTE	183.00	0.12
## GLUCOSE	439.00	0.25
## educ	3.00	0.01
## PREVCHD	1.00	0.00
## PREVAP	1.00	0.00
## PREVMI	1.00	0.00
## PREVSTRK	1.00	0.00
## PREVHYP	1.00	0.00
## TIME	4854.00	16.31
## PERIOD	2.00	0.01
## HDLC	179.00	0.28
## LDLC	545.00	0.85
## DEATH	1.00	0.00
## ANGINA	1.00	0.00
## HOSPMI	1.00	0.00
## MI_FCHD	1.00	0.00
## ANYCHD	1.00	0.00
## STROKE	1.00	0.00
## CVD	1.00	0.00
## HYPERTEN	1.00	0.00
## TIMEAP	8766.00	22.98
## TIMEMI	8766.00	19.82
## TIMEMIFC	8766.00	20.33
## TIMECHD	8766.00	24.50
## TIMESTRK	8766.00	18.65
## TIMECVD	8766.00	23.57
## TIMEDTH	8740.00	16.59
## TIMEHYP	8766.00	32.13