```r
library(fitdistrplus)
library(logspline)

x <- c(37.50,46.79,48.30,46.04,43.40,39.25,38.49,49.51,40.38,36.98,40.00,
    38.49,37.74,47.92,44.53,44.91,44.91,40.00,41.51,47.92,36.98,43.40,
    42.26,41.89,38.87,43.02,39.25,40.38,42.64,36.98,44.15,44.91,43.40,
    49.81,38.87,40.00,52.45,53.13,47.92,52.45,44.91,29.54,27.13,35.60,
    45.34,43.37,54.15,42.77,42.88,44.26,27.14,39.31,24.80,16.62,30.30,
    36.39,28.60,28.53,35.84,31.10,34.55,52.65,48.81,43.42,52.49,38.00,
    38.65,34.54,37.70,38.11,43.05,29.95,32.48,24.63,35.33,41.34)

descdist(x, discrete = FALSE)

fit.weibull <- fitdist(x, "weibull")
fit.norm <- fitdist(x, "norm")
fit.lnorm <- fitdist(x, "lnorm")
fit.gamma <- fitdist(x, "gamma")
fit.exp <- fitdist(x, "exp",method ="mme")

plot(fit.norm)
plot(fit.weibull)
plot(fit.lnorm)
plot(fit.exp)

summary(fit.norm)
summary(fit.exp)
```