

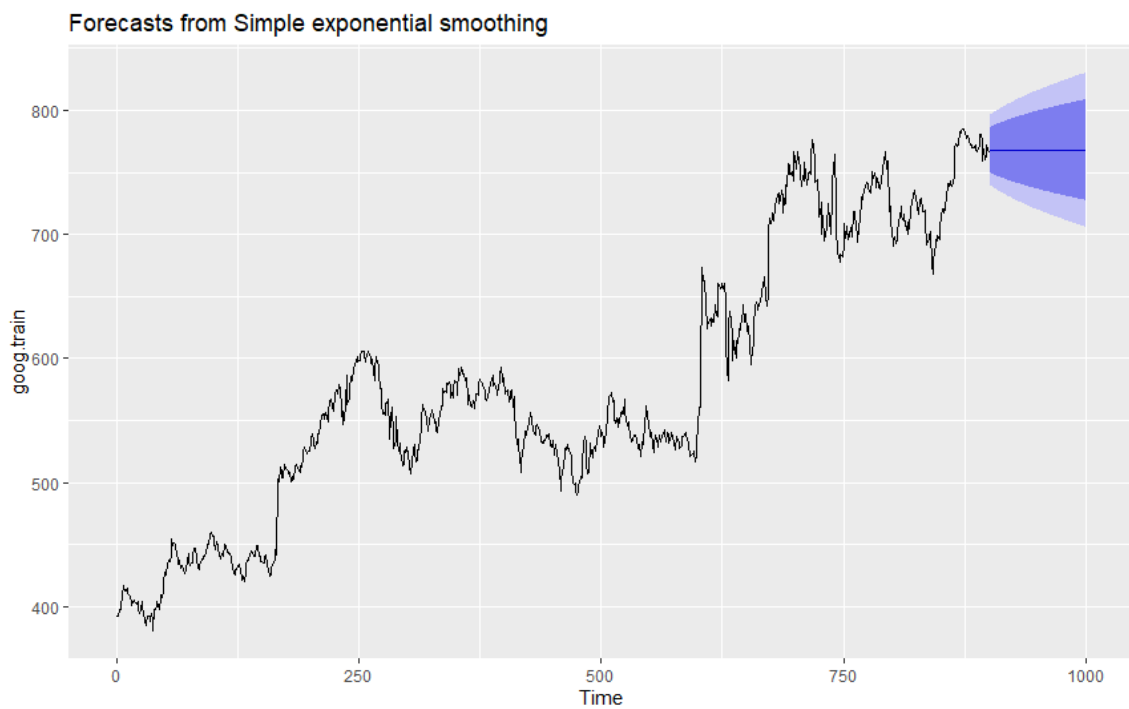
ASSIGNMENT-5

SUHAAS K.-PES1201700015

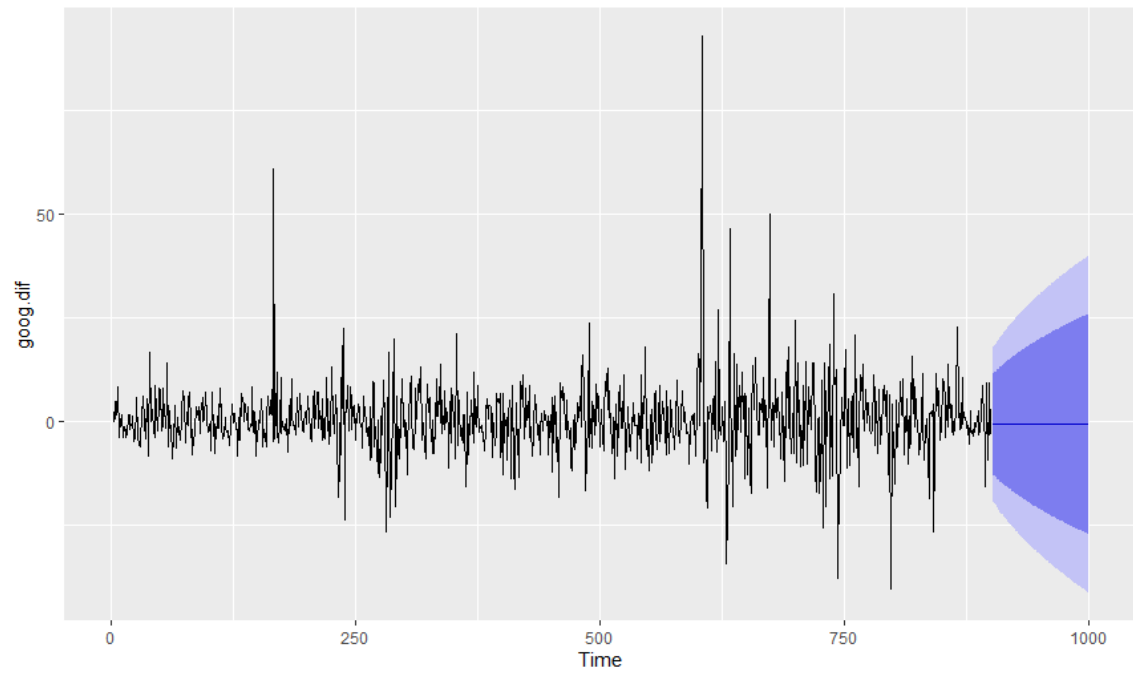
APOORVE GUPTA-PES1201700038

KAUSTUBH JHA-PES1201700040

SARANSH GUPTA -PES1201700267



Forecasts from Simple exponential smoothing



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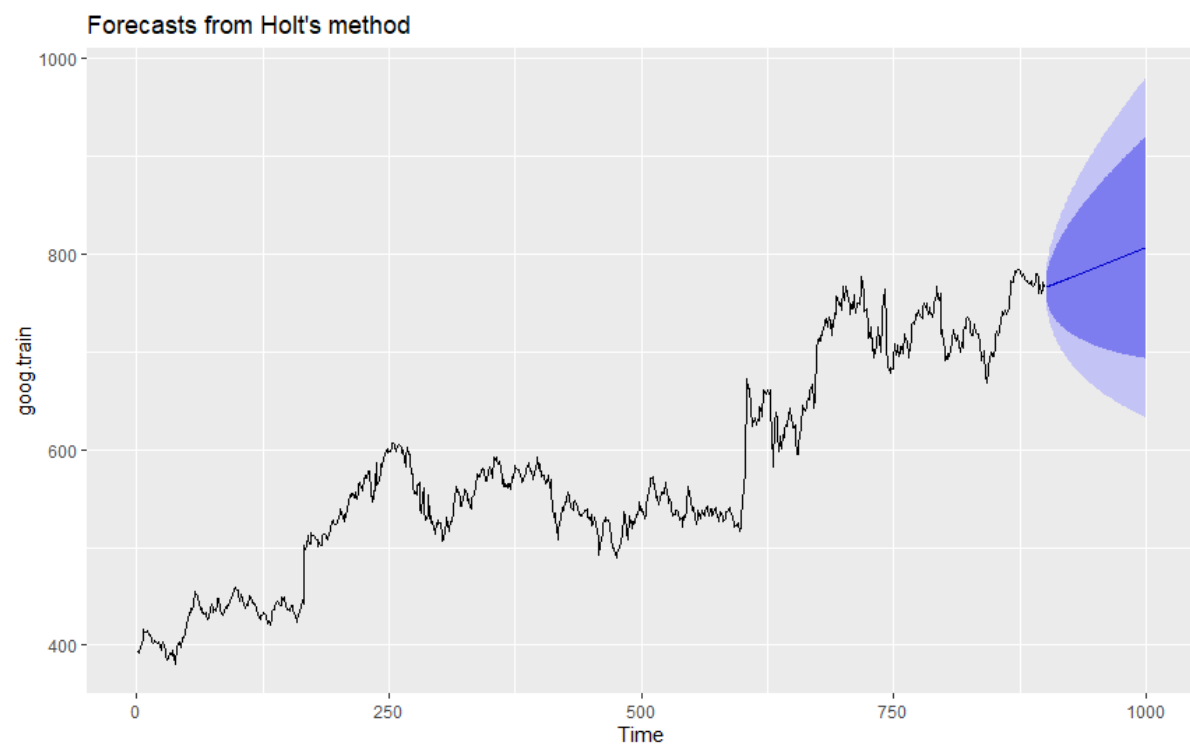
> accuracy(ses.goog.dif, goog.dif.test)
      ME      RMSE      MAE      MPE      MAPE      MASE      ACF1 Theil's U
Training set  2.041321 14.18379  9.913305  0.3098205  1.700573  1.707184  0.7795089      NA
Test set     19.009181 26.74882 22.151977  2.3598077  2.777610  3.814823  0.8949134  3.219065
> |

```

```

> accuracy(ses.goog.dif, goog.dif.test)
      ME      RMSE      MAE      MPE      MAPE      MASE      ACF1 Theil's U
Training set -0.01368221 9.317223  6.398819  99.97907 253.7069  0.7572009 -0.05440377      NA
Test set      0.97219517 8.141450  6.117483 109.93320 177.9684  0.7239091  0.12278141  0.9900678
> |

```



```

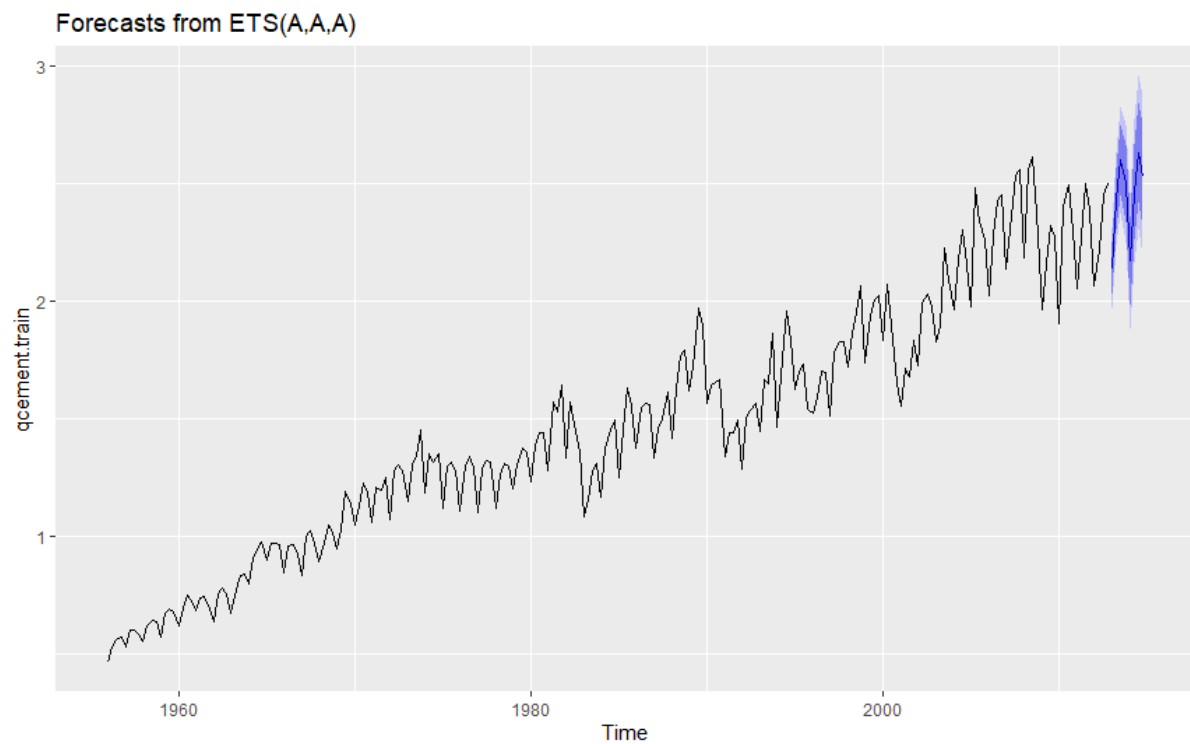
> summary(goog.train)
      
```

	ME	RMSE	MAE	MPE	MAPE	MASE	ACF1	Theil's U
Training set	-0.003332796	8.795267	5.821057	-0.01211821	1.000720	1.002452	0.03100836	NA
Test set	0.545744415	16.328680	12.876836	0.03013427	1.646261	2.217538	0.87733298	2.024518

```

> |

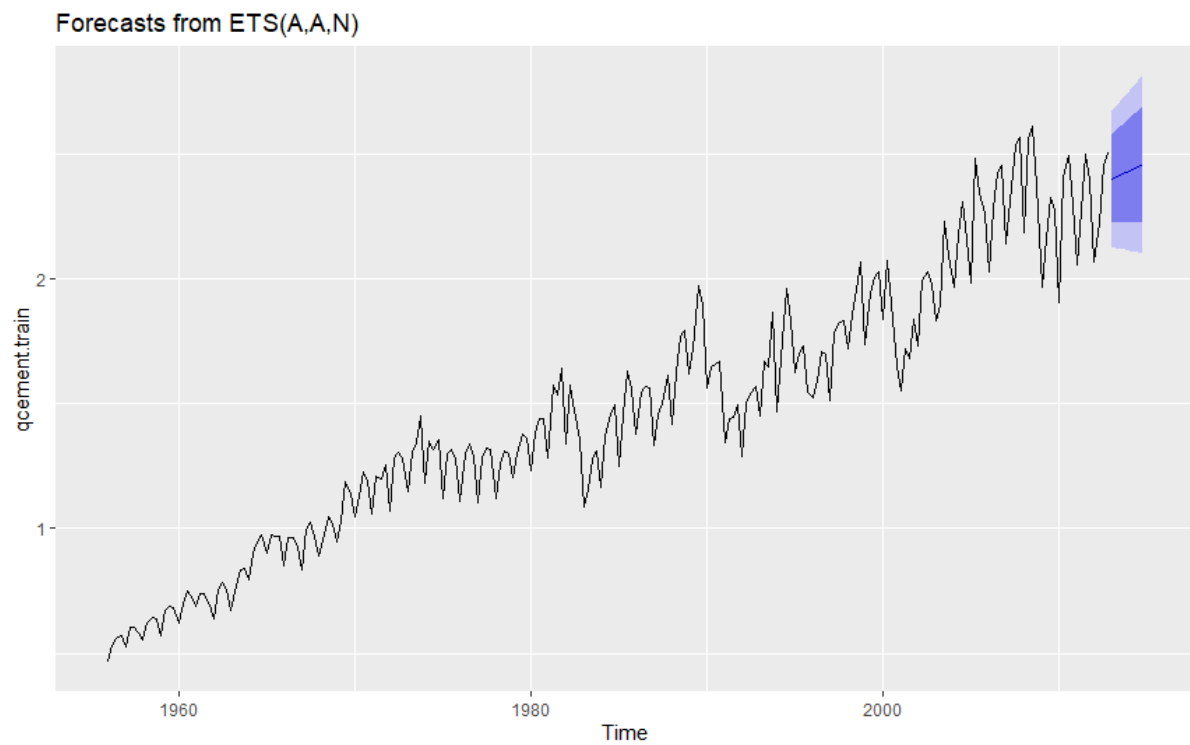
```



```
> accuracy(qcement.f1, qcement.test)
```

	ME	RMSE	MAE	MPE	MAPE	MASE	ACF1	Theil's U
Training set	0.001463693	0.08393279	0.05976830	-0.003454533	3.922727	0.5912949	0.02150539	NA
Test set	0.031362775	0.07144211	0.06791904	1.115342984	2.899446	0.6719311	-0.31290496	0.2112428

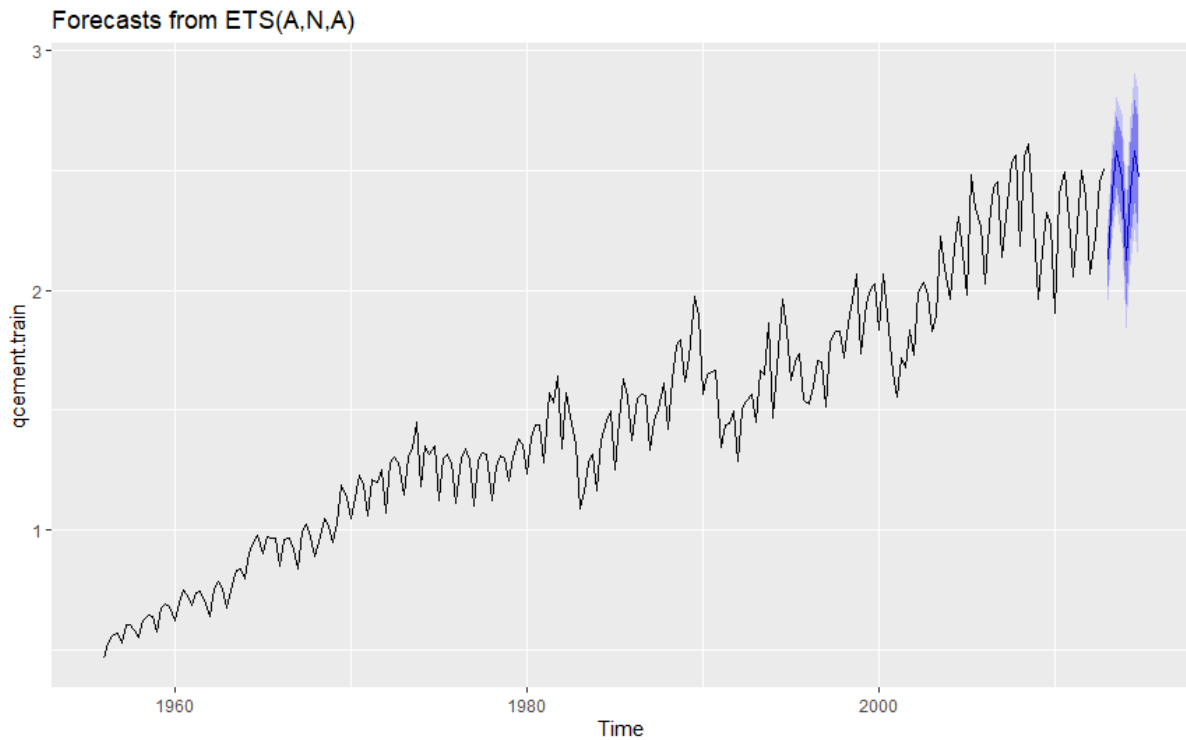
```
> |
```



```
> accuracy(qcement.fl, qcement.test)
```

	ME	RMSE	MAE	MPE	MAPE	MASE	ACF1	Theil's U
Training set	0.0001794161	0.1365402	0.1045445	-0.5490086	7.114495	1.034271	0.10690021	NA
Test set	-0.0135237513	0.2223811	0.2073752	-1.4853686	8.976100	2.051588	-0.02586266	0.5225482

```
> |
```



```
> accuracy(qcement.fl, qcement.test)
```

	ME	RMSE	MAE	MPE	MAPE	MASE	ACF1	Theil's U
Training set	0.01189679	0.08459019	0.06077136	0.7882161	3.952821	0.6012182	0.01913719	NA
Test set	0.05817018	0.09137833	0.08918584	2.2368423	3.750540	0.8823262	-0.24717956	0.2957023

```
> |
```