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```

Sensitivity      0.9994  0.9939  0.9903  0.9938  0.9991
Specificity      0.9991  0.9981  0.9981  0.9996  0.9998
Pos Pred Value   0.9976  0.9921  0.9912  0.9979  0.9991
Neg Pred Value   0.9998  0.9985  0.9979  0.9988  0.9998
Prevalence       0.2845  0.1935  0.1743  0.1638  0.1839
Detection Rate   0.2843  0.1924  0.1726  0.1628  0.1837
Detection Prevalence 0.2850  0.1939  0.1742  0.1631  0.1839
Balanced Accuracy 0.9992  0.9960  0.9942  0.9967  0.9994

```

```

>
> mod_gbm <- train(classe~., data=train, method="gbm", trControl = control, tuneLength = 5, ver
bose = F)

```

```

>
> pred_gbm <- predict(mod_gbm, valid)
> cmgbm <- confusionMatrix(pred_gbm, factor(valid$classe))
> cmgbm

```

Confusion Matrix and Statistics

	Reference				
Prediction	A	B	C	D	E
A	1671	6	0	0	0
B	1	1126	10	0	0
C	2	7	1013	9	2
D	0	0	3	953	2
E	0	0	0	2	1078

Overall Statistics

```

Accuracy : 0.9925
95% CI : (0.99, 0.9946)
No Information Rate : 0.2845
P-Value [Acc > NIR] : < 2.2e-16

```

Kappa : 0.9905

Mcnemar's Test P-Value : NA

Statistics by Class:

	Class: A	Class: B	Class: C	Class: D	Class: E
Sensitivity	0.9982	0.9886	0.9873	0.9886	0.9963
Specificity	0.9986	0.9977	0.9959	0.9990	0.9996
Pos Pred Value	0.9964	0.9903	0.9806	0.9948	0.9981
Neg Pred Value	0.9993	0.9973	0.9973	0.9978	0.9992
Prevalence	0.2845	0.1935	0.1743	0.1638	0.1839
Detection Rate	0.2839	0.1913	0.1721	0.1619	0.1832
Detection Prevalence	0.2850	0.1932	0.1755	0.1628	0.1835
Balanced Accuracy	0.9984	0.9931	0.9916	0.9938	0.9979

```

>
> mod_gbm <- train(classe~., data=train, method="gbm", trControl = control, tuneLength = 5, ver
bose = F)

```