Decision Tree

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REPTree
=========
x_{std} < 0.68
| x_{std} < 0.43
| | x_{std} < 0.15 : not-hand-wash (39/0) [24/0]
| \ | \ | \ | \ x_{avg} < 2.39 : not-hand-wash (16/1) [8/1]
| | | | x_avg >= 2.39 : hand-wash (3/1) [2/0]
| y_std >= 0.37 : not-hand-wash (91/0) [33/1]
| x_std >= 0.43
y_{std} < 0.28 : hand-wash (2/0) [0/0]
| y_std >= 0.28
| | | x_avg < -7.89 : not-hand-wash (11/0) [15/0]
| | | | x_avg >= -7.89
| | | | | y_std >= 0.96
| | | | x_avg < -6.23 : hand-wash (2/0) [1/0]
| \ | \ | \ | \ | \ x_{avg} >= -6.23 : not-hand-wash (2/0) [1/0]
| | | x_avg >= -1.46 : not-hand-wash (30/0) [12/1]
x_{std} >= 0.68
| x_avg < -7.6 : not-hand-wash (50/0) [23/2]
| x_avg >= -7.6
| | x_avg < 6.98
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| | | | y_{avg} < -9.33 : not-hand-wash (9/0) [9/0]
| | | | z_avg < 0.79 : hand-wash (20/1) [17/2]
| | | | | z_avg >= 0.79
| | | | | x_std < 1.44 : not-hand-wash (19/3) [9/2]
| \ | \ | \ | \ | \ | \ | \ x_{std} >= 1.44 : hand-wash (15/6) [6/1]
| \ | \ | \ | \ | \ | \ x_{avg} >= 4.5 : hand-wash (6/0) [3/1]
| | x_avg >= 6.98 : not-hand-wash (17/0) [8/0]
| | y_std >= 2.03
| \ | \ | \ | \ | \ z_{avg} < 0.21: hand-wash (18/0) [4/0]
| | | | | | y_std < 2.99 : not-hand-wash (12/4) [5/1]
| | | | z_avg < 9.15 : hand-wash (269/2) [134/6]
| | | | | z_{avg} >= 9.15 : not-hand-wash (2/0) [2/0]
| | x_std >= 2.64
| |  | y_std < 10.13 : hand-wash (27/11) [20/4]
| | | | y_std >= 10.13 : not-hand-wash (6/0) [3/0]
```

Size of the tree: 51

Accuracy of Classification

Correctly Classified Instances	927	88.7081 %
Incorrectly Classified Instances	118	11.2919 %
Kappa statistic	0.7724	
Mean absolute error	0.1447	
Root mean squared error	0.2989	
Relative absolute error	29.0936 %	
Root relative squared error	59.9477 %	
Total Number of Instances	1045	

Confusion Matrix

```
a b <-- classified as
510 51 | a = hand-wash
67 417 | b = not-hand-wash
```