

```
singleSeparation =  
  {{43, 516, 459, 404, 372, 22, 22, 23, 36, 23, 23, 31, 23, 23, 23, 23, 23, 23, 35},  
   {23, 23, 44, 46, 45, 32, 24, 23, 23, 25, 23, 31, 23, 24, 23, 23, 23, 30, 23, 39},  
   {45, 31, 45, 37, 36, 31, 26, 26, 26, 29, 27, 26, 26, 26, 33, 28, 25, 25, 26, 25},  
   {30, 29, 47, 41, 36, 30, 29, 29, 29, 29, 29, 33, 29, 29, 43, 29, 30, 29, 29, 29}};
```

```

boxPlot[data_, plotLabel_] := BoxWhiskerChart[data,
  "Outliers",
  ChartLabels → {"3x3", "5x5", "7x7", "9x9", "41x41"},
  FrameLabel → {"filter size", "time [ms]"},
  PlotLabel → plotLabel
];

boxPlotData[data_] := Module[{min, max, quartiles, IQR,
  outlier, outlierLow, outlierHigh, stringData, stringOutliers},
  min = Min /@ data;
  max = Max /@ data;
  quartiles = Quartiles[singleSeparationT] / N;
  IQR = quartiles[[3]] - quartiles[[1]];
  outlierLow = Table[Select[
    singleSeparation[[i]],
    (# < quartiles[[1, i]] - IQR[[i]] * 1.5) &
  ], {i, 1, Length[min]}];
  outlierHigh = outlier = Table[Select[
    singleSeparation[[i]],
    (# > quartiles[[3, i]] + IQR[[i]] * 1.5) &
  ], {i, 1, Length[min]}];
  outlier = Table[Select[
    singleSeparation[[i]],
    (# > quartiles[[3, i]] + IQR[[i]] * 1.5 || # < quartiles[[1, i]] - IQR[[i]] * 1.5) &
  ], {i, 1, Length[min]}];

  Do[
    If[Length[outlierHigh[[i]]] ≥ 1,
      max[[i]] = quartiles[[3, i]] + 1.5 * IQR[[i]]
    ];
    If[Length[outlierLow[[i]]] ≥ 1,
      min[[i]] = quartiles[[1, i]] - 1.5 * IQR[[i]]
    ];
    , {i, 1, Length[min]}}];

  stringData = "var singleSeparation = " <> StringReplace[
    ToString@Table[
      {min[[i]], quartiles[[1, i]], quartiles[[2, i]], quartiles[[3, i]], max[[i]]},
      {i, 1, Length[min]}],
    {"{" → "[", "}" → "]"}} <> ";";
  stringOutliers = "var outliers = " <> StringReplace[
    ToString@Flatten[
      Table[Table[{i - 1, outlier[[i, j]]},
        {j, 1, Length[outlier[[i]]}], {i, 1, Length[min]}],
      1],
    {"{" → "[", "}" → "]"}} <> ";";

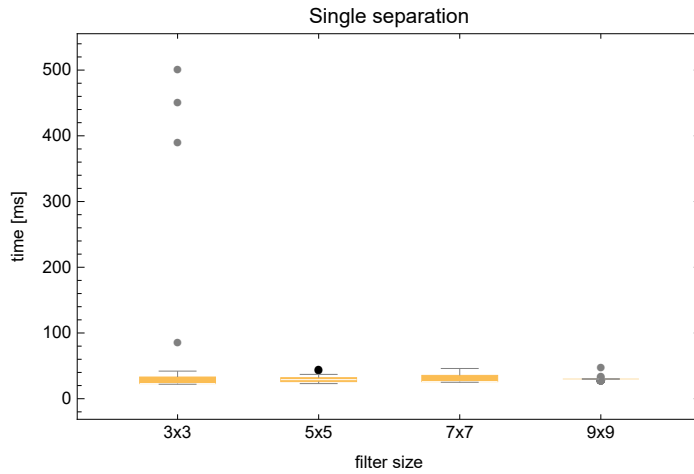
  stringData <> "\n" <> stringOutliers
];

boxPlotData[singleSeparation]

```

```
var data = [[22, 23., 23., 39.5, 64.25], [23, 23., 23.5, 31.5,
  44.25], [25, 26., 26.5, 32., 41.], [29, 29., 29., 31.5, 35.25]];
var outliers = [[0, 516], [0, 459], [0, 404], [0, 372], [1, 46],
  [1, 45], [2, 45], [2, 45], [3, 47], [3, 41], [3, 36], [3, 43]];
```

```
boxPlot[singleSeparation, "Single separation"]
```



```
Table[Round[255 * List @@ ColorData[97, "ColorList"][[i]], {i, 1, 6}]
```

```
{{94, 129, 181}, {225, 156, 36}, {143, 176, 50},
 {235, 98, 53}, {135, 120, 179}, {197, 110, 26}}
```