TITLE

MapLibre GL JS Benchmarks – Finished

<u>Paint</u> **HEAD 6935737** **main b287640** **fill-opacity-per-layer 7727eac**

(20% trimmed) Mean	19.0 ms	18.5 ms	18.4 ms
(Windsorized) Deviation	1.71 ms	1.42 ms	1.32 ms
R² Slope / Correlation	18.0 ms / 0.996	18.5 ms / 0.994	17.2 ms / 0.997
Minimum	16.3 ms	16.0 ms	15.8 ms
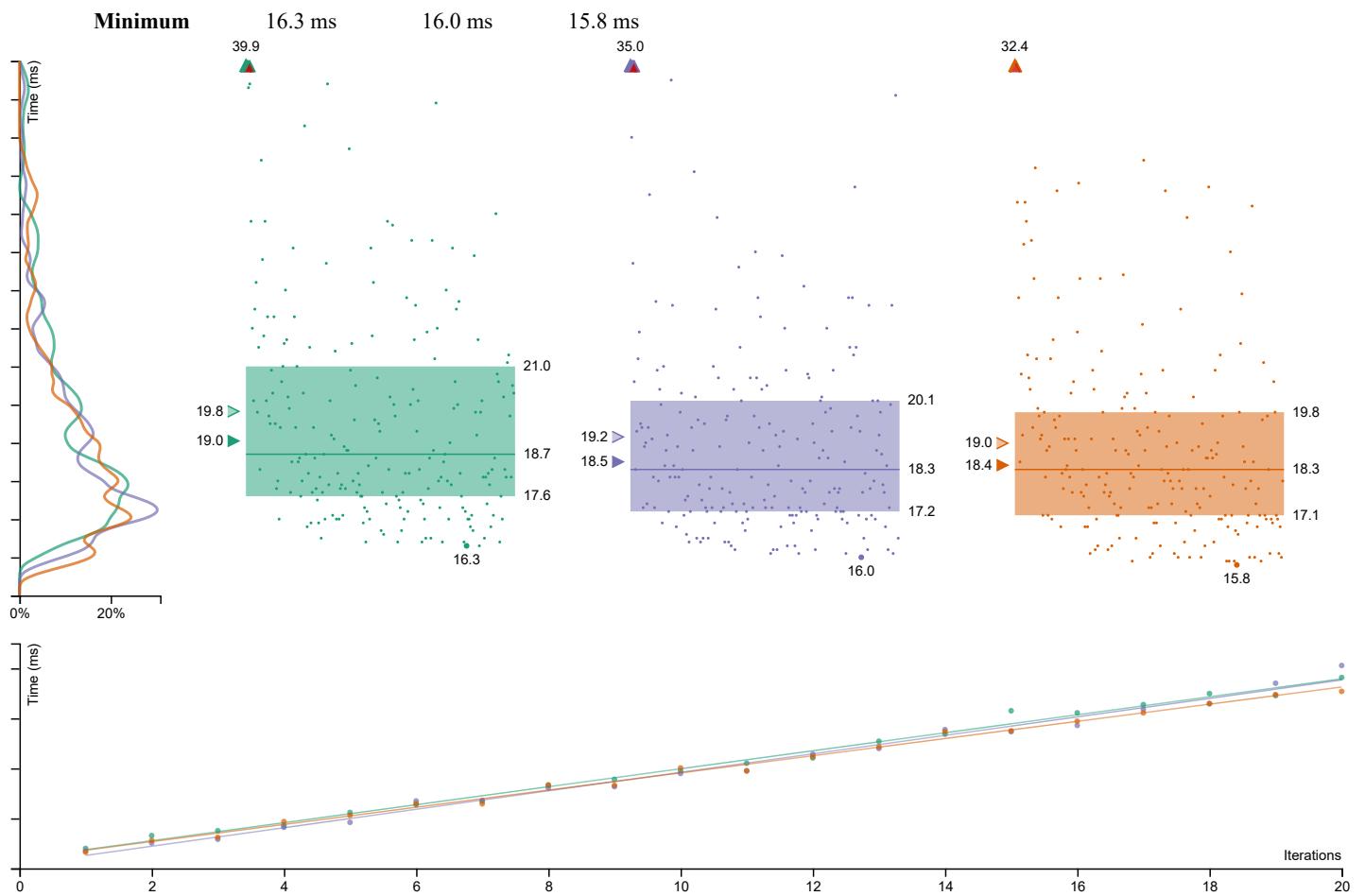
TITLE

MapLibre GL JS Benchmarks – Finished

QueryPoint **HEAD 6935737** **main b287640** **fill-opacity-per-layer 7727eac**

(20% trimmed) Mean	25.1 ms	25.3 ms	25.5 ms
(Windsorized) Deviation	0.523 ms	0.386 ms	0.414 ms
R^2 Slope / Correlation	22.0 ms / 0.976 ⚠	22.6 ms / 0.977 ⚠	22.6 ms / 0.978 ⚠
Minimum	24.1 ms	24.6 ms	24.5 ms
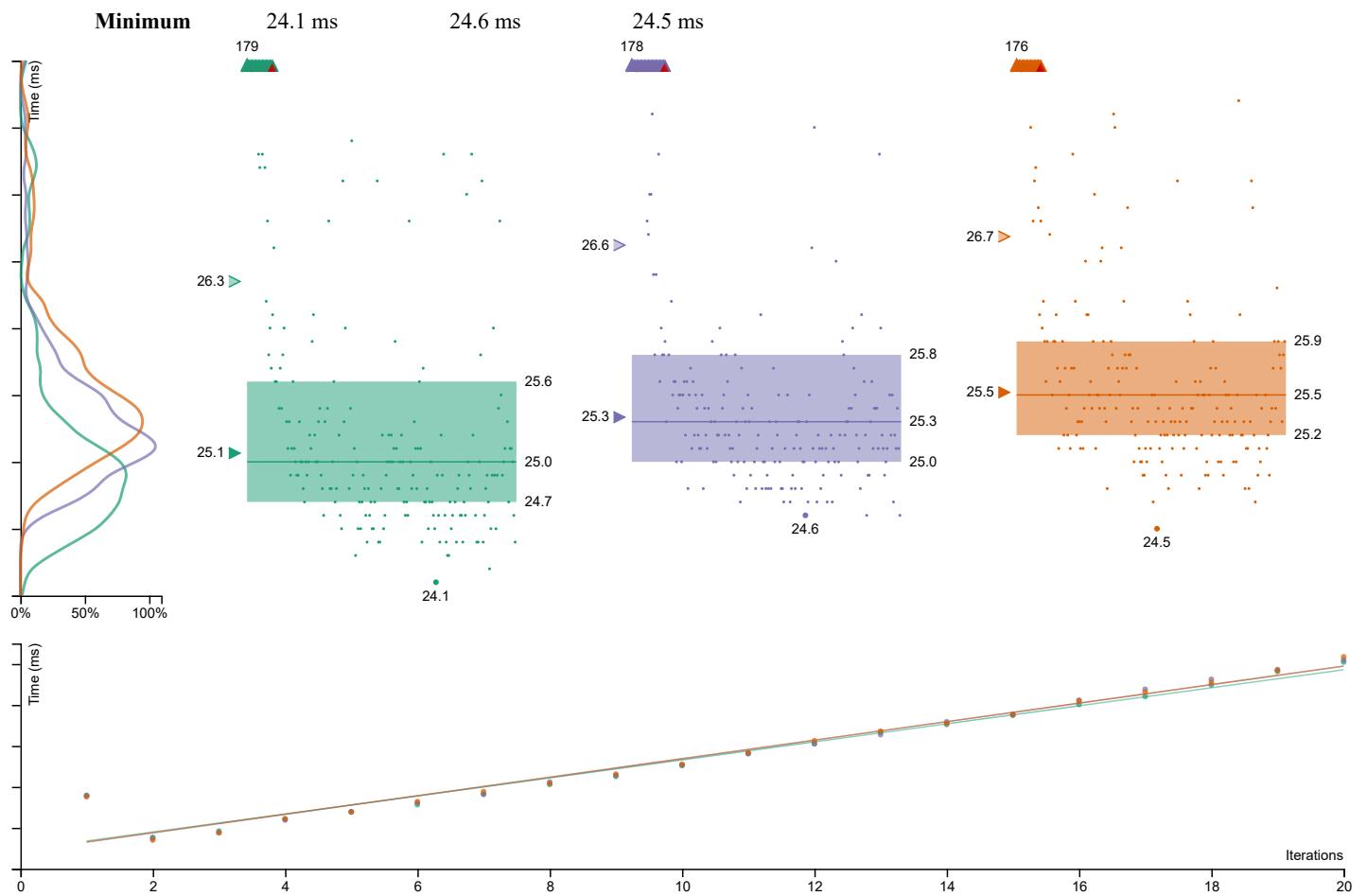
TITLE

MapLibre GL JS Benchmarks – Finished

QueryBox   HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	189 ms	189 ms	187 ms
(Windsorized) Deviation	7.26 ms	2.24 ms	1.60 ms
R² Slope / Correlation	194 ms / 0.999	189 ms / 0.999	188 ms / 0.999
Minimum	183 ms	184 ms	182 ms
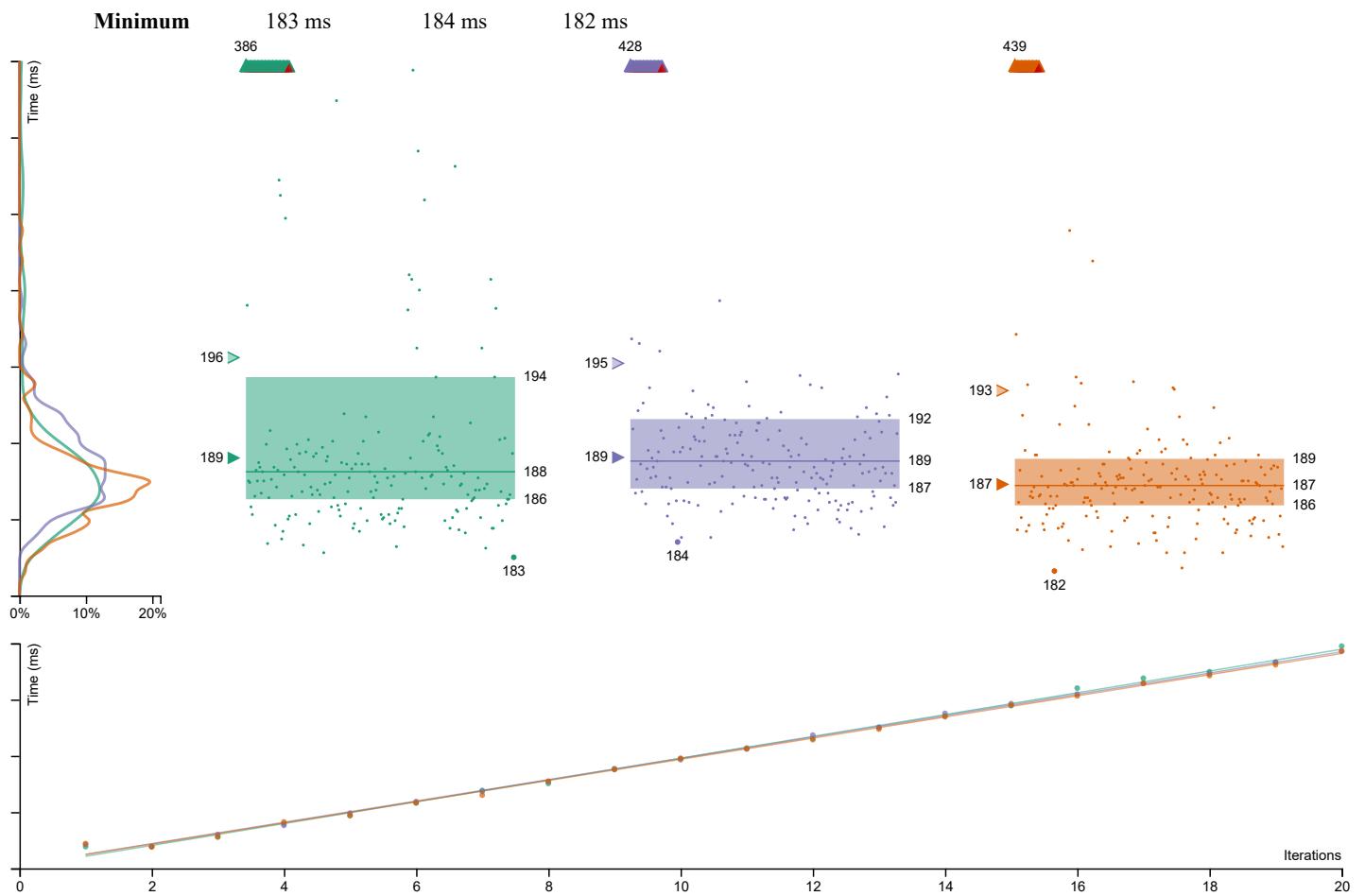
TITLE

MapLibre GL JS Benchmarks – Finished

HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	154 ms	186 ms	197 ms
(Windsorized) Deviation	10.0 ms	7.40 ms	10.6 ms
R² Slope / Correlation	153 ms / 1.000	184 ms / 1.000	194 ms / 0.997
Minimum	144 ms	178 ms	186 ms
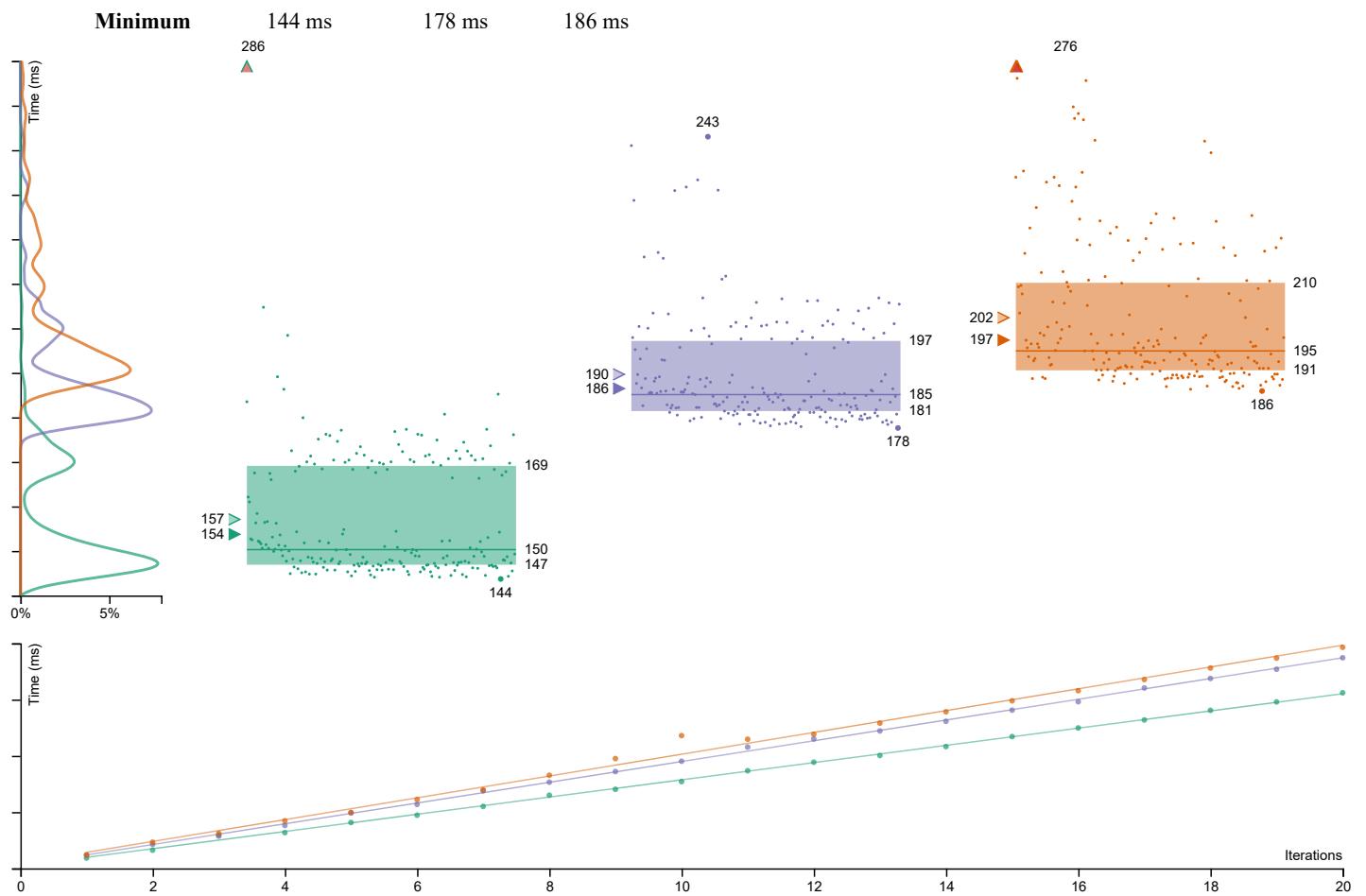
TITLE

MapLibre GL JS Benchmarks – Finished

HEAD 6935737 **main b287640** **fill-opacity-per-layer 7727eac**

(20% trimmed) Mean	17.2 ms	17.3 ms	18.0 ms
(Windsorized) Deviation	0.609 ms	0.609 ms	0.597 ms
R² Slope / Correlation	17.1 ms / 0.998	17.2 ms / 0.995	17.7 ms / 0.992
Minimum	15.6 ms	15.5 ms	16.1 ms
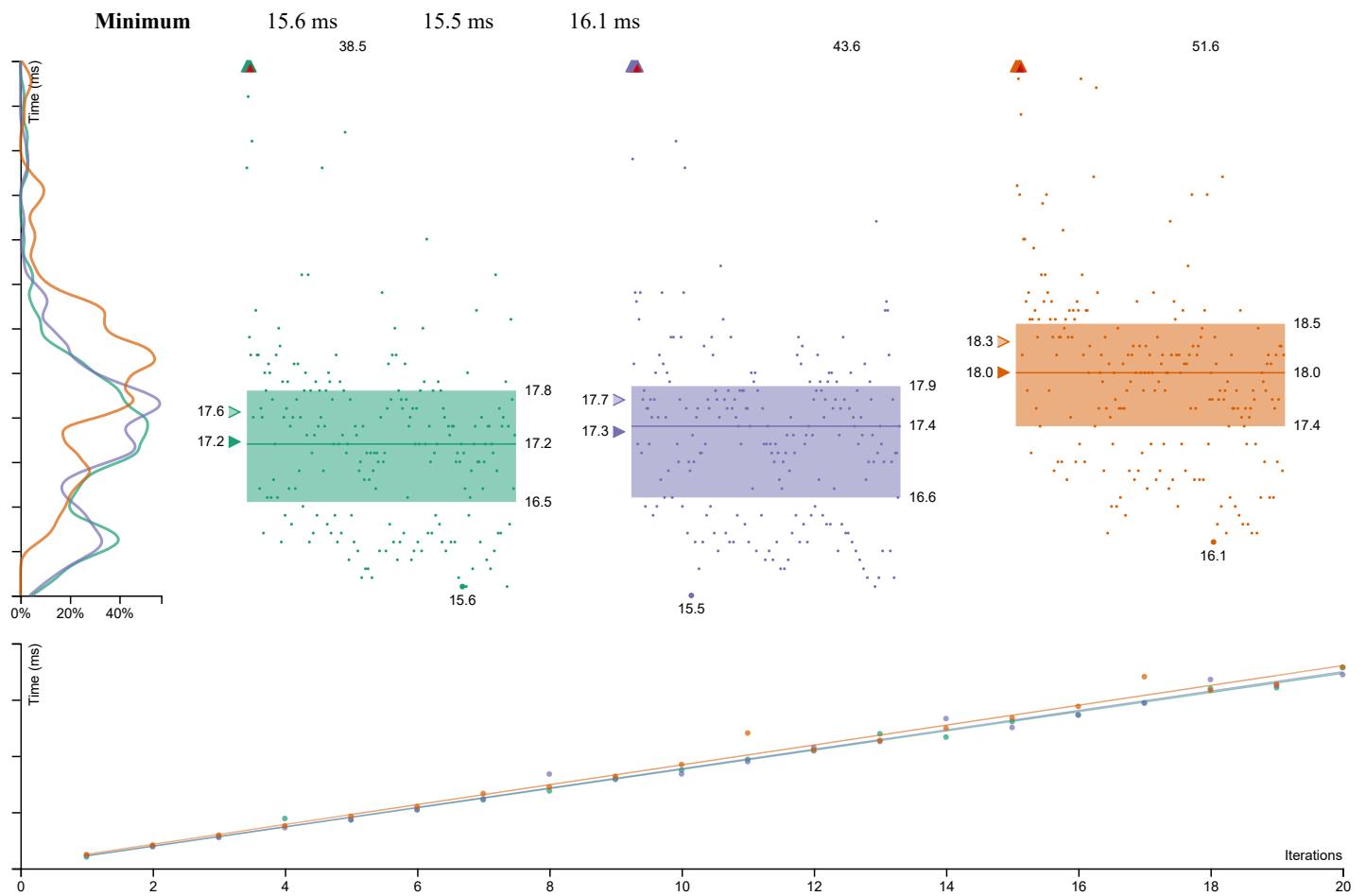
TITLE

MapLibre GL JS Benchmarks – Finished

Validate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	3.98 ms	3.93 ms	3.95 ms
(Windsorized) Deviation	0.106 ms	0.101 ms	0.0981 ms
R² Slope / Correlation	3.76 ms / 0.998	3.70 ms / 0.998	3.43 ms / 0.988 ⚠️
Minimum	3.80 ms	3.75 ms	3.80 ms
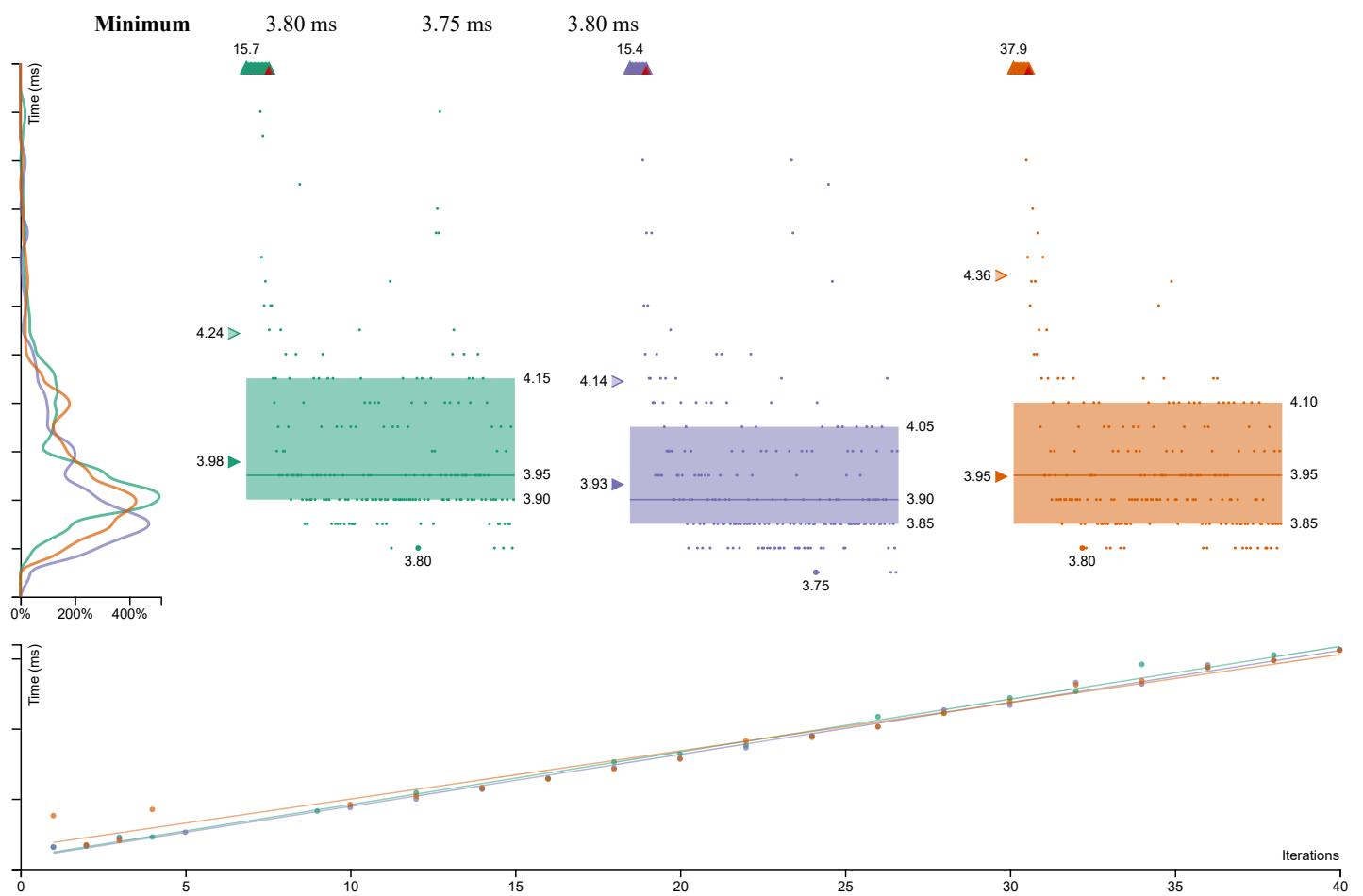
TITLE

MapLibre GL JS Benchmarks – Finished

StyleLayerCreate HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.968 ms	1.10 ms	0.967 ms
(Windsorized) Deviation	0.0219 ms	0.165 ms	0.0213 ms
R² Slope / Correlation	0.939 ms / 0.995	1.04 ms / 0.984 ⚠	0.914 ms / 0.999
Minimum	0.933 ms	0.933 ms	0.917 ms
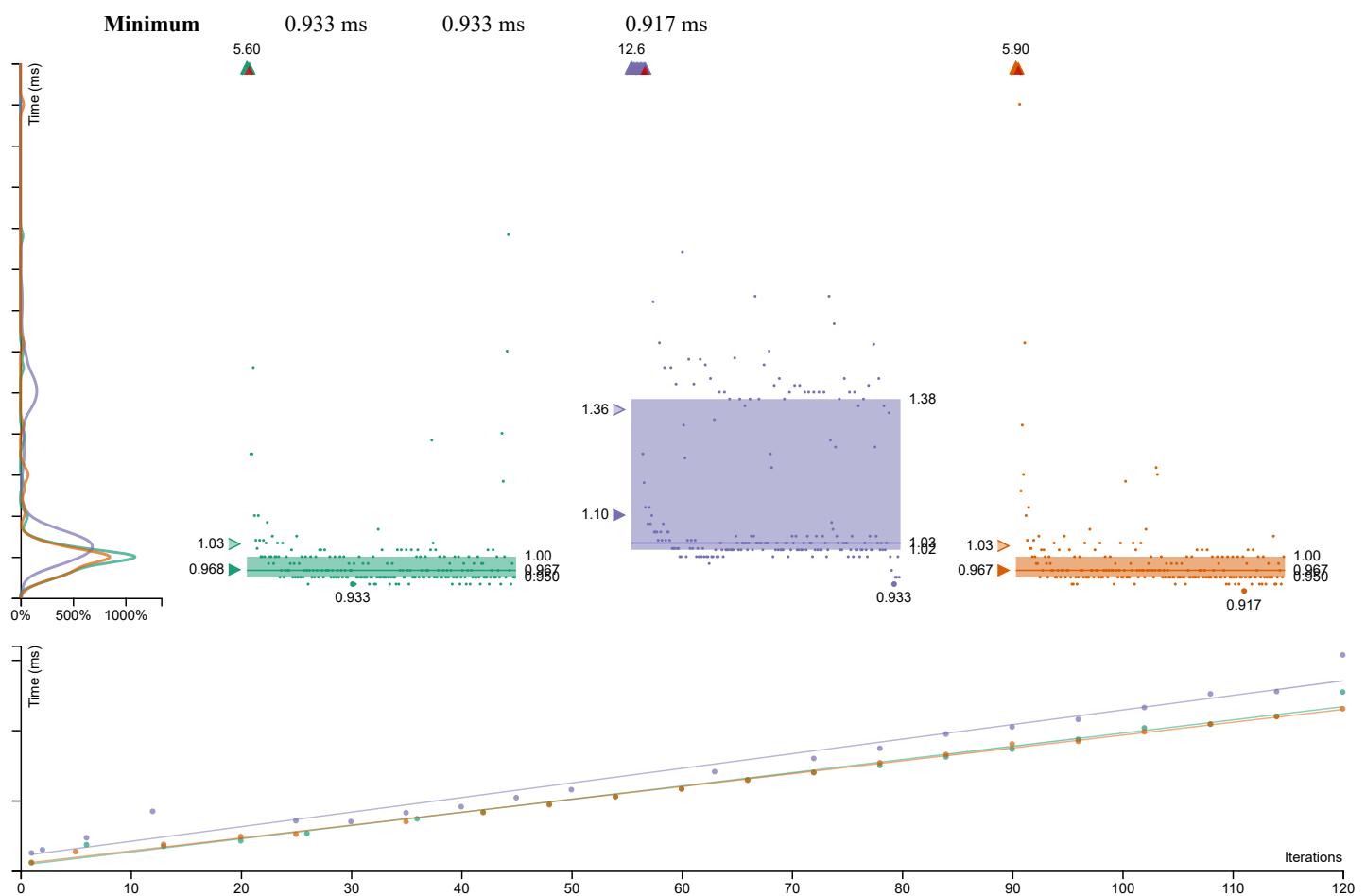
TITLE

MapLibre GL JS Benchmarks – Finished

FunctionCreate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.0595 ms	0.0916 ms	0.0580 ms
(Windsorized) Deviation	0.00180 ms	0.0307 ms	0.00118 ms
R² Slope / Correlation	0.0598 ms / 0.998	0.0840 ms / 0.992	0.0588 ms / 0.999
Minimum	0.0562 ms	0.0633 ms	0.0556 ms
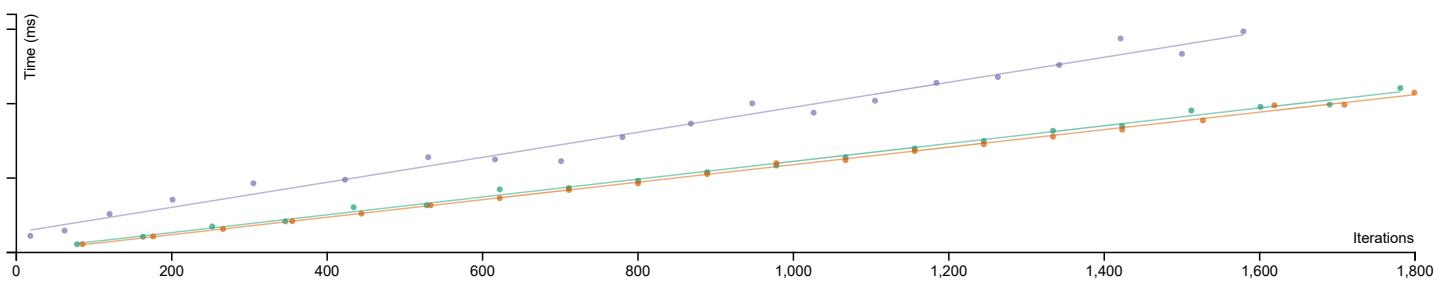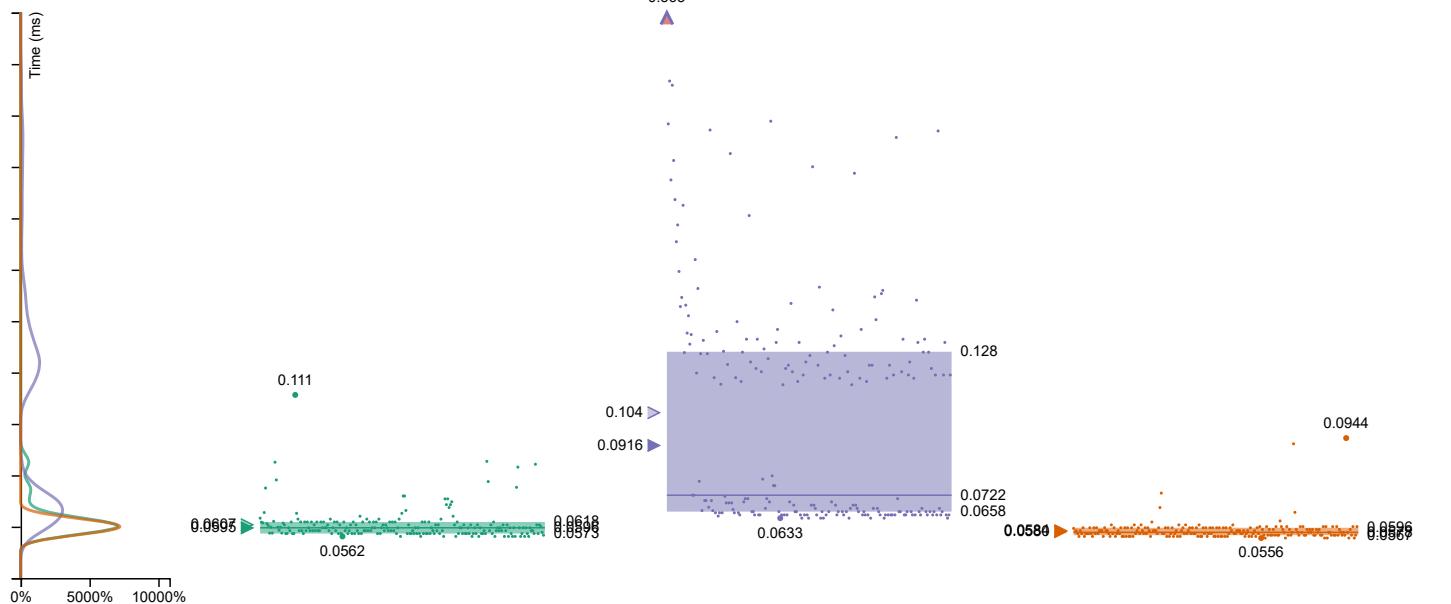
TITLE

MapLibre GL JS Benchmarks – Finished

FunctionEvaluate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.00478 ms	0.00527 ms	0.00504 ms
(Windsorized) Deviation	0.0000845 ms	0.0000884 ms	0.0000854 ms
R² Slope / Correlation	0.00469 ms / 0.999	0.00463 ms / 0.994	0.00491 ms / 0.998
Minimum	0.00456 ms	0.00507 ms	0.00484 ms
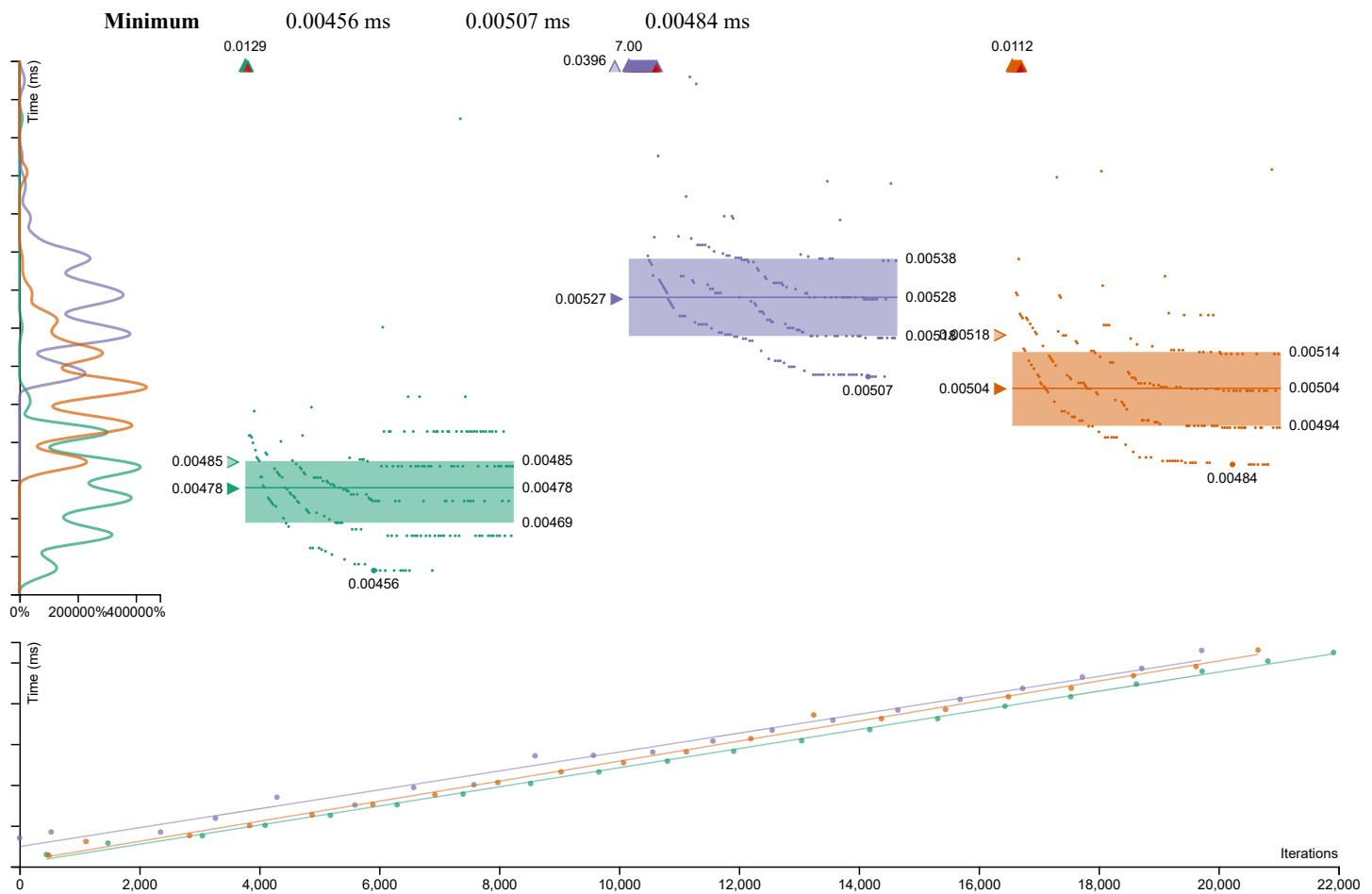
TITLE

MapLibre GL JS Benchmarks – Finished

ExpressionCreate HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	0.655 ms	0.655 ms	0.661 ms
(Windsorized) Deviation	0.0152 ms	0.0159 ms	0.0190 ms
R² Slope / Correlation	0.599 ms / 0.997	0.619 ms / 0.996	0.631 ms / 0.993
Minimum	0.625 ms	0.625 ms	0.622 ms
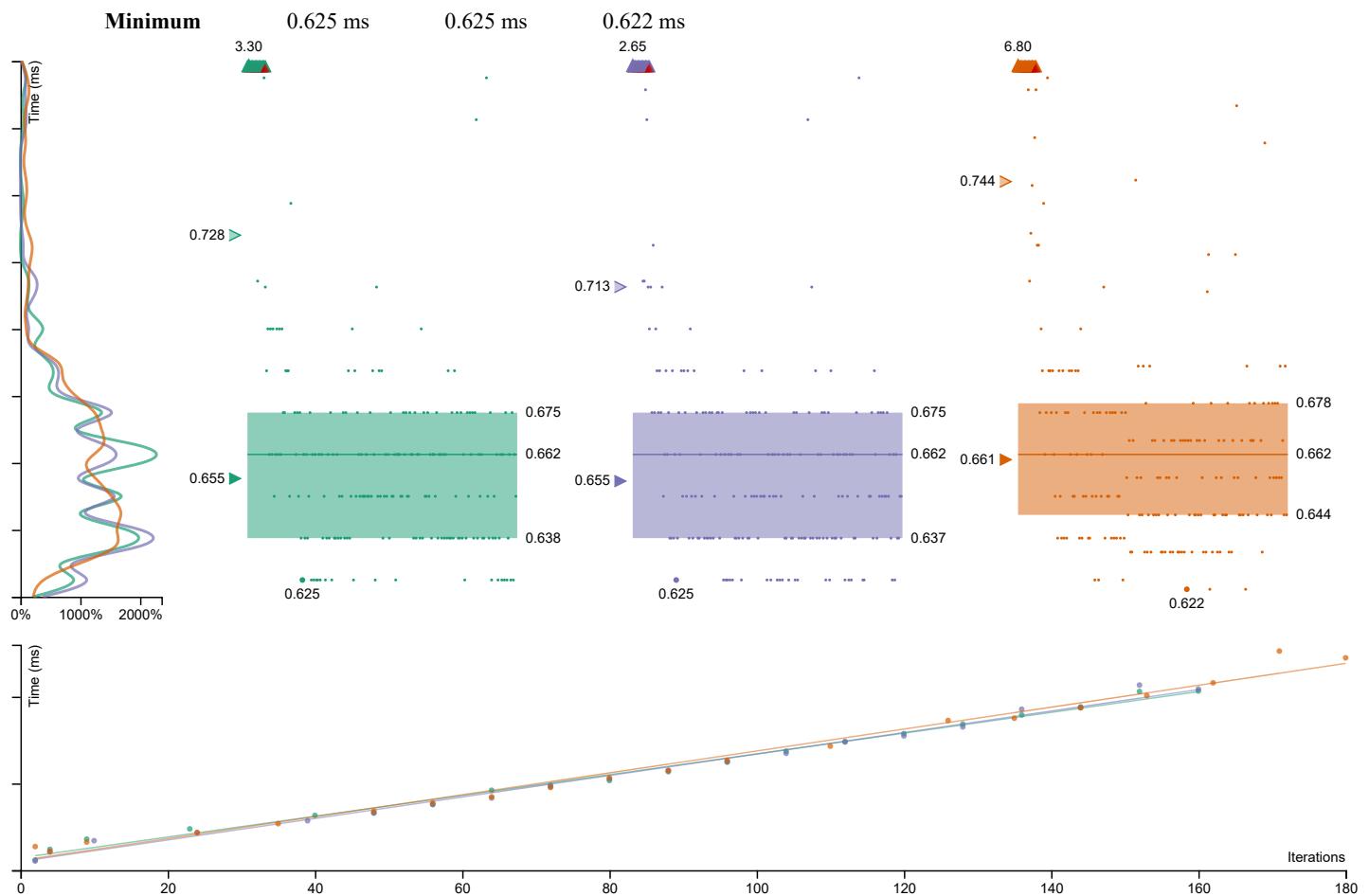
TITLE

MapLibre GL JS Benchmarks – Finished

ExpressionEvaluate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.00991 ms	0.00941 ms	0.00796 ms
(Windsorized) Deviation	0.000170 ms	0.00169 ms	0.000150 ms
R² Slope / Correlation	0.00974 ms / 0.998	0.00813 ms / 0.991	0.00785 ms / 0.999
Minimum	0.00940 ms	0.00792 ms	0.00772 ms
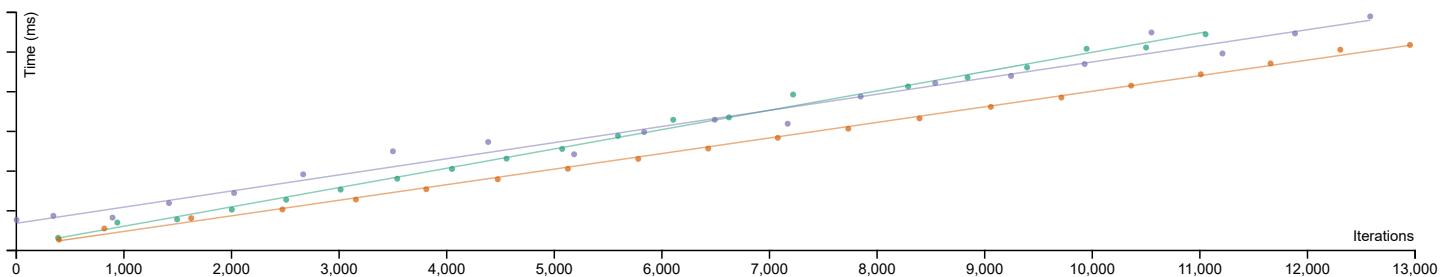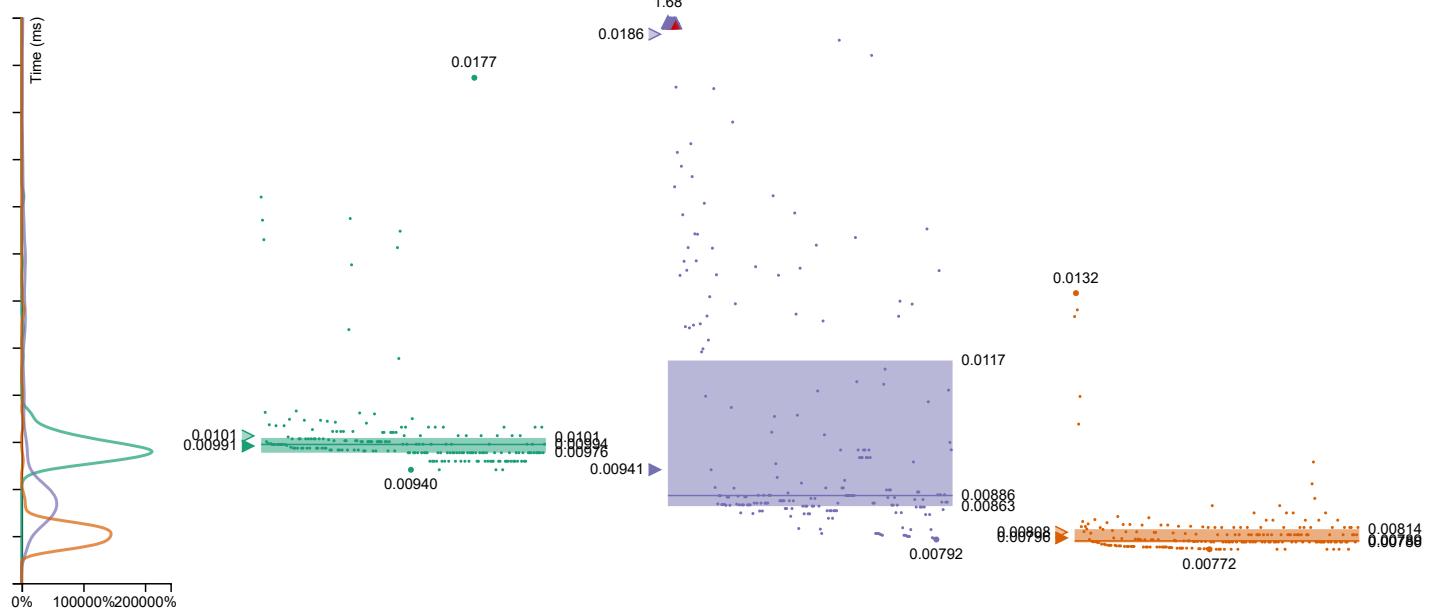
TITLE

MapLibre GL JS Benchmarks – Finished

WorkerTransfer HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	21.5 ms	95.9 ms	98.4 ms
(Windsorized) Deviation	1.56 ms	1.08 ms	1.29 ms
R² Slope / Correlation	20.8 ms / 0.996	95.6 ms / 1.000	99.5 ms / 1.000
Minimum	18.2 ms	91.6 ms	93.4 ms
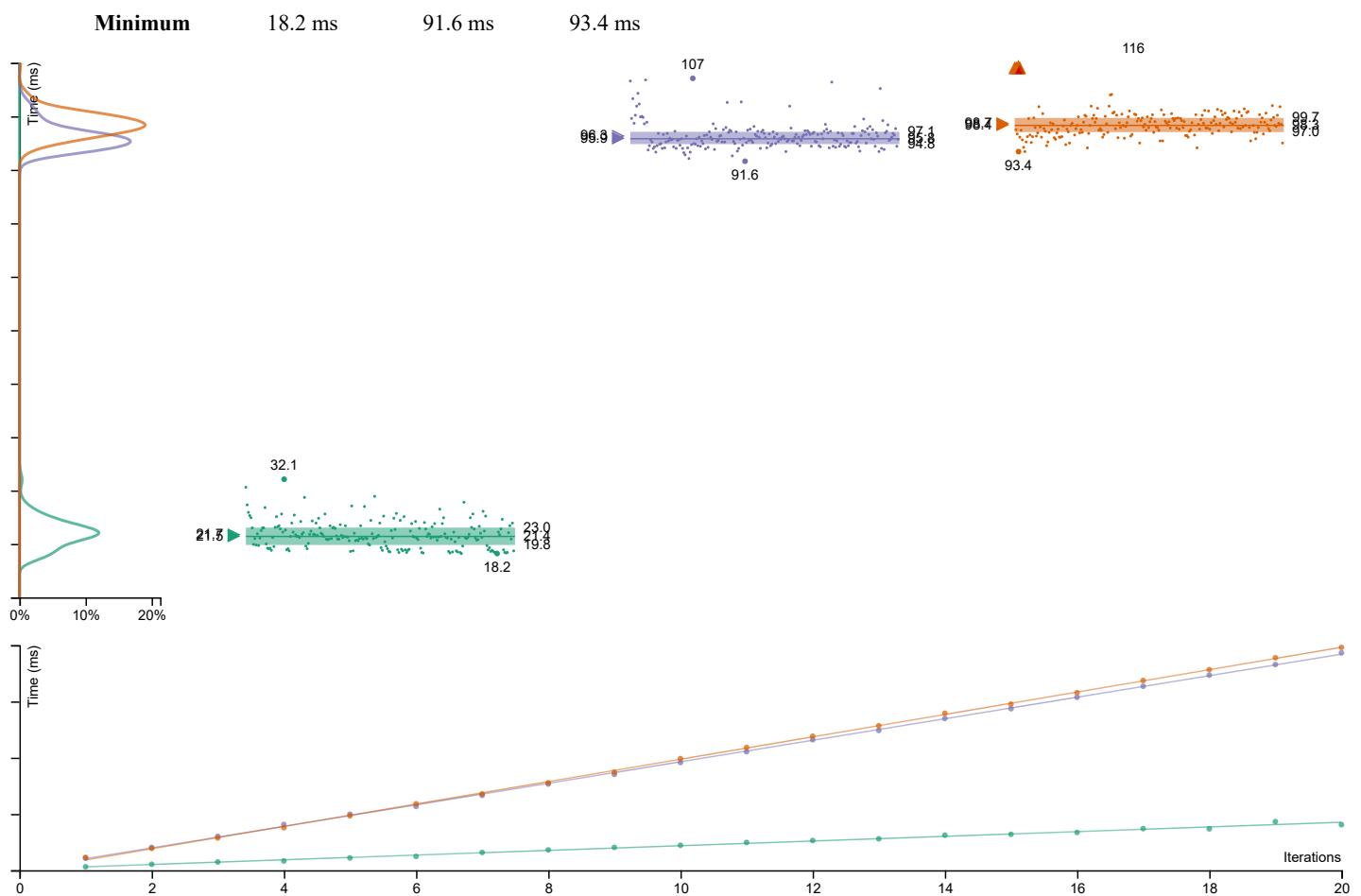
TITLE

MapLibre GL JS Benchmarks – Finished

PaintStates   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	120 ms	122 ms	123 ms
(Windsorized) Deviation	1.61 ms	2.30 ms	1.65 ms
R² Slope / Correlation	120 ms / 1.000	122 ms / 1.000	122 ms / 1.000
Minimum	118 ms	118 ms	120 ms
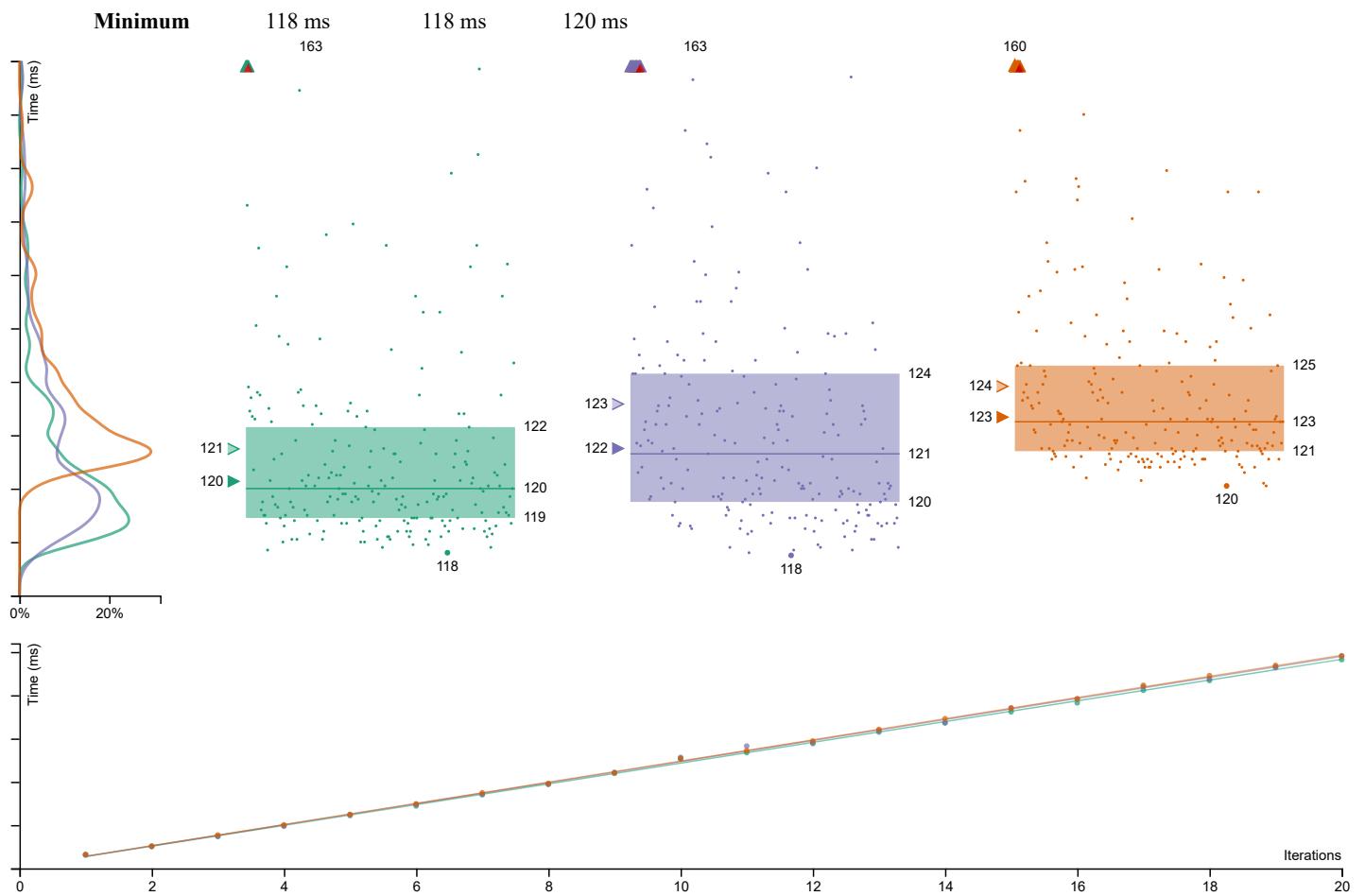
TITLE

MapLibre GL JS Benchmarks – Finished

PropertyLevelRemove HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	120 ms	119 ms	122 ms
(Windsorized) Deviation	1.55 ms	1.22 ms	1.39 ms
R² Slope / Correlation	119 ms / 1.000	118 ms / 1.000	121 ms / 1.000
Minimum	117 ms	117 ms	119 ms
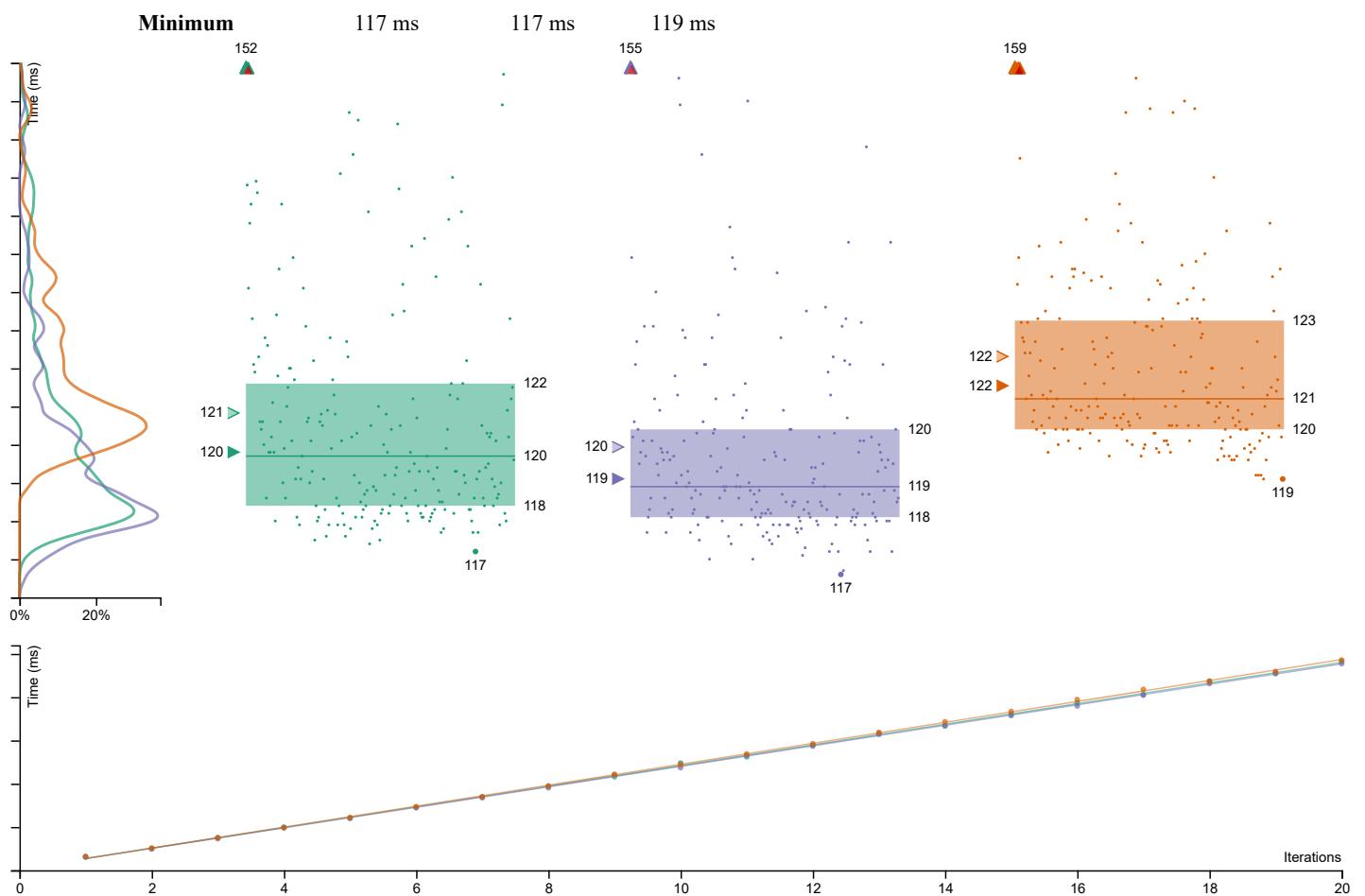
# TITLE

MapLibre GL JS Benchmarks – Finished

FeatureLevelRemove HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	119 ms	121 ms	121 ms
(Windsorized) Deviation	1.63 ms	1.21 ms	1.63 ms
R² Slope / Correlation	118 ms / 1.000	120 ms / 1.000	120 ms / 1.000
Minimum	116 ms	119 ms	119 ms
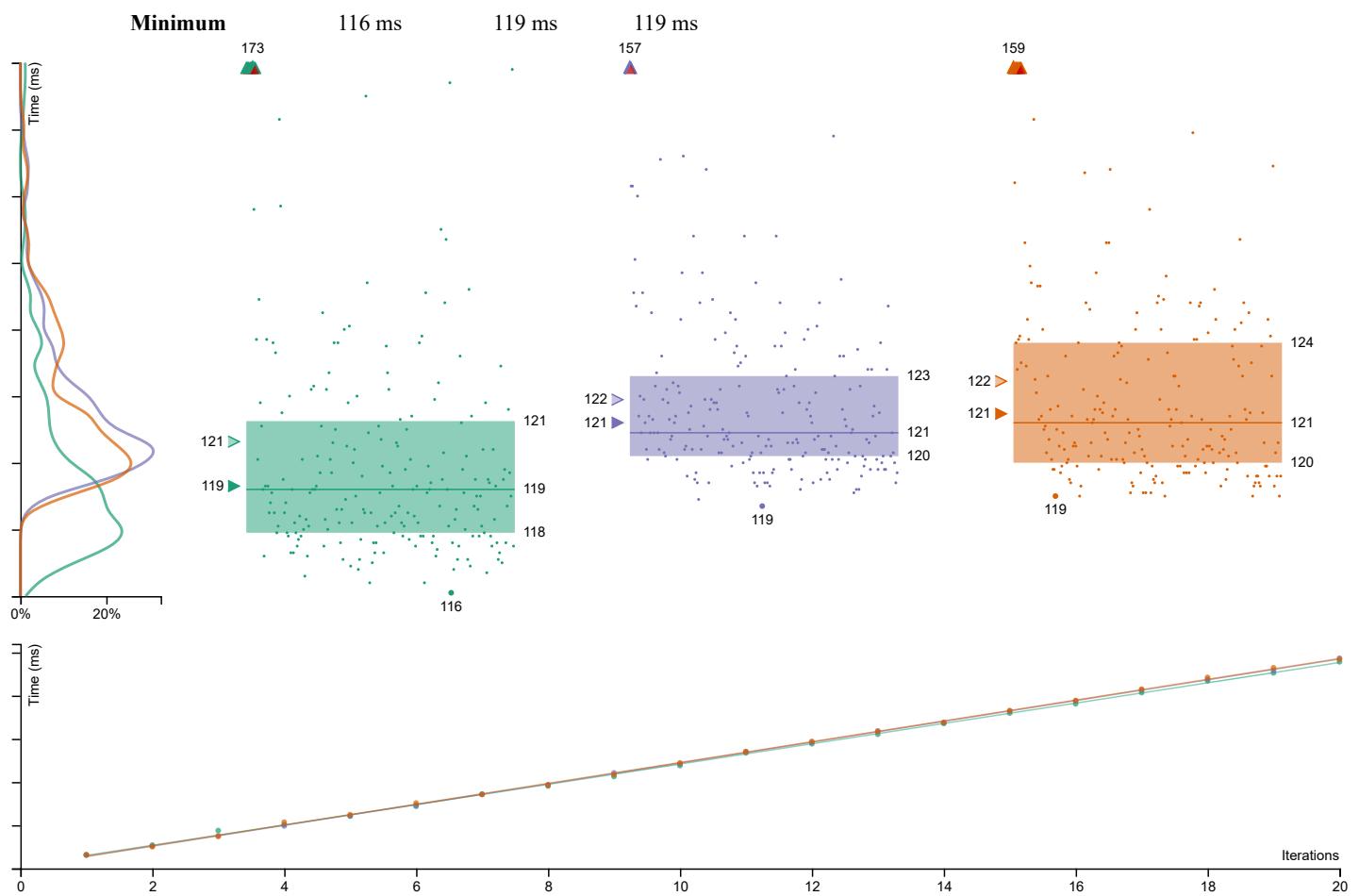
TITLE

MapLibre GL JS Benchmarks – Finished

SourceLevelRemove HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	118 ms	120 ms	120 ms
(Windsorized) Deviation	2.01 ms	1.68 ms	1.85 ms
R² Slope / Correlation	120 ms / 0.999	119 ms / 0.999	123 ms / 0.997
Minimum	115 ms	118 ms	117 ms
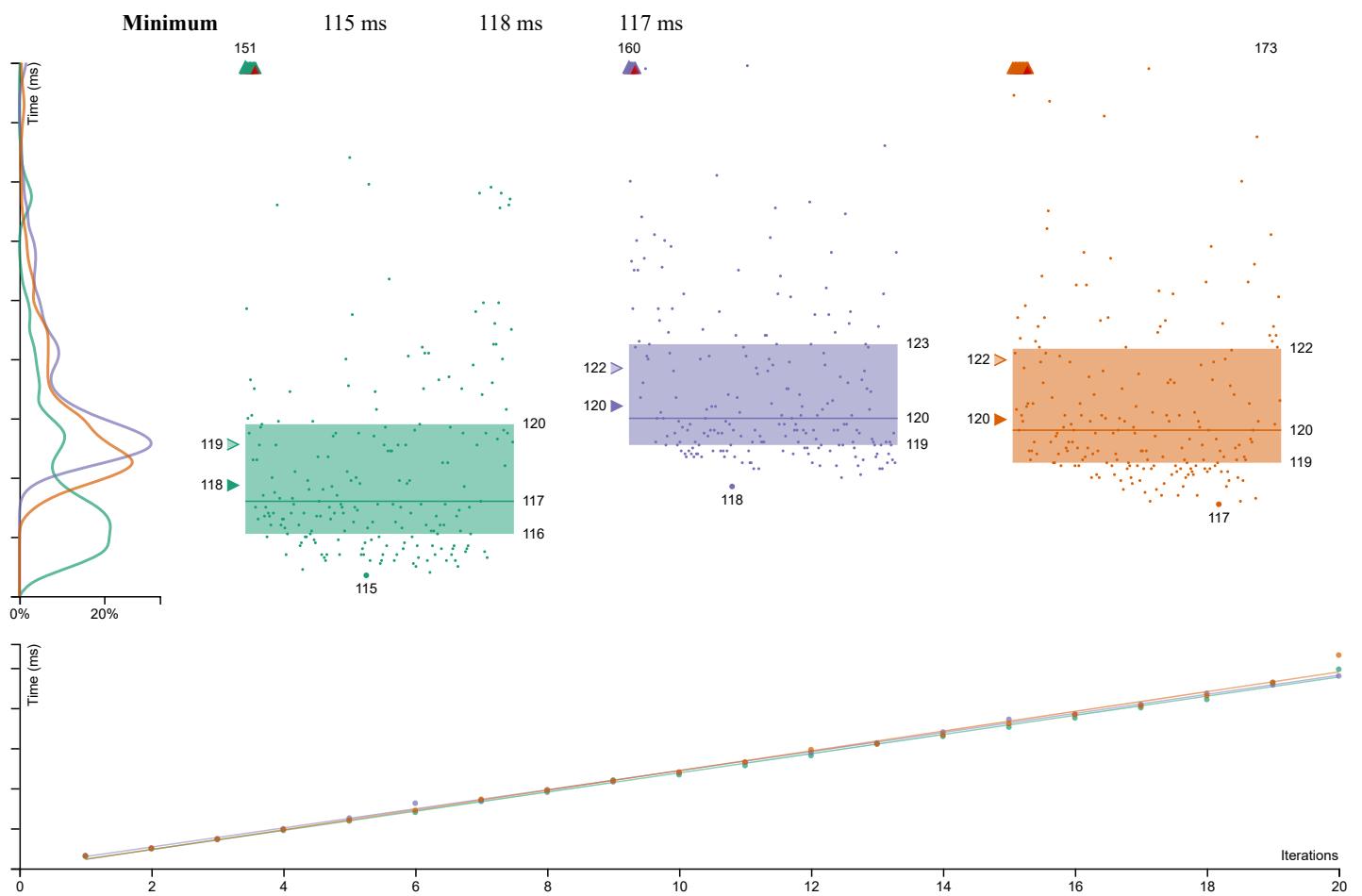
TITLE

MapLibre GL JS Benchmarks – Finished

LayerBackground HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	2.68 ms	2.79 ms	2.79 ms
(Windsorized) Deviation	0.116 ms	0.103 ms	0.0832 ms
R² Slope / Correlation	2.51 ms / 0.997	2.62 ms / 0.996	2.65 ms / 0.995
Minimum	2.50 ms	2.60 ms	2.60 ms
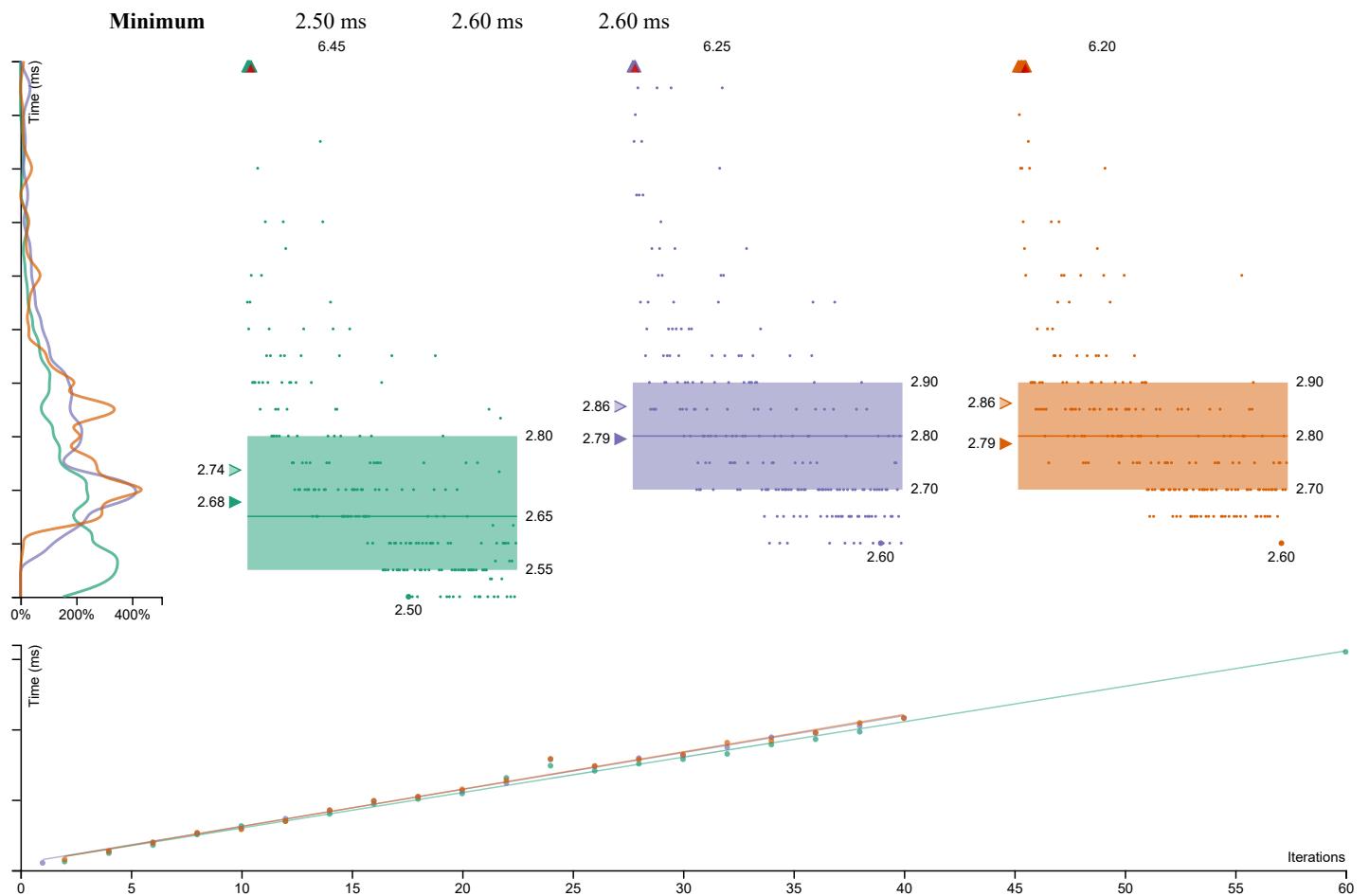
TITLE

MapLibre GL JS Benchmarks – Finished

LayerCircle   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	0.437 ms	0.396 ms	0.401 ms
(Windsorized) Deviation	0.0152 ms	0.0113 ms	0.0179 ms
R² Slope / Correlation	0.410 ms / 0.996	0.386 ms / 0.996	0.375 ms / 0.995
Minimum	0.400 ms	0.371 ms	0.364 ms
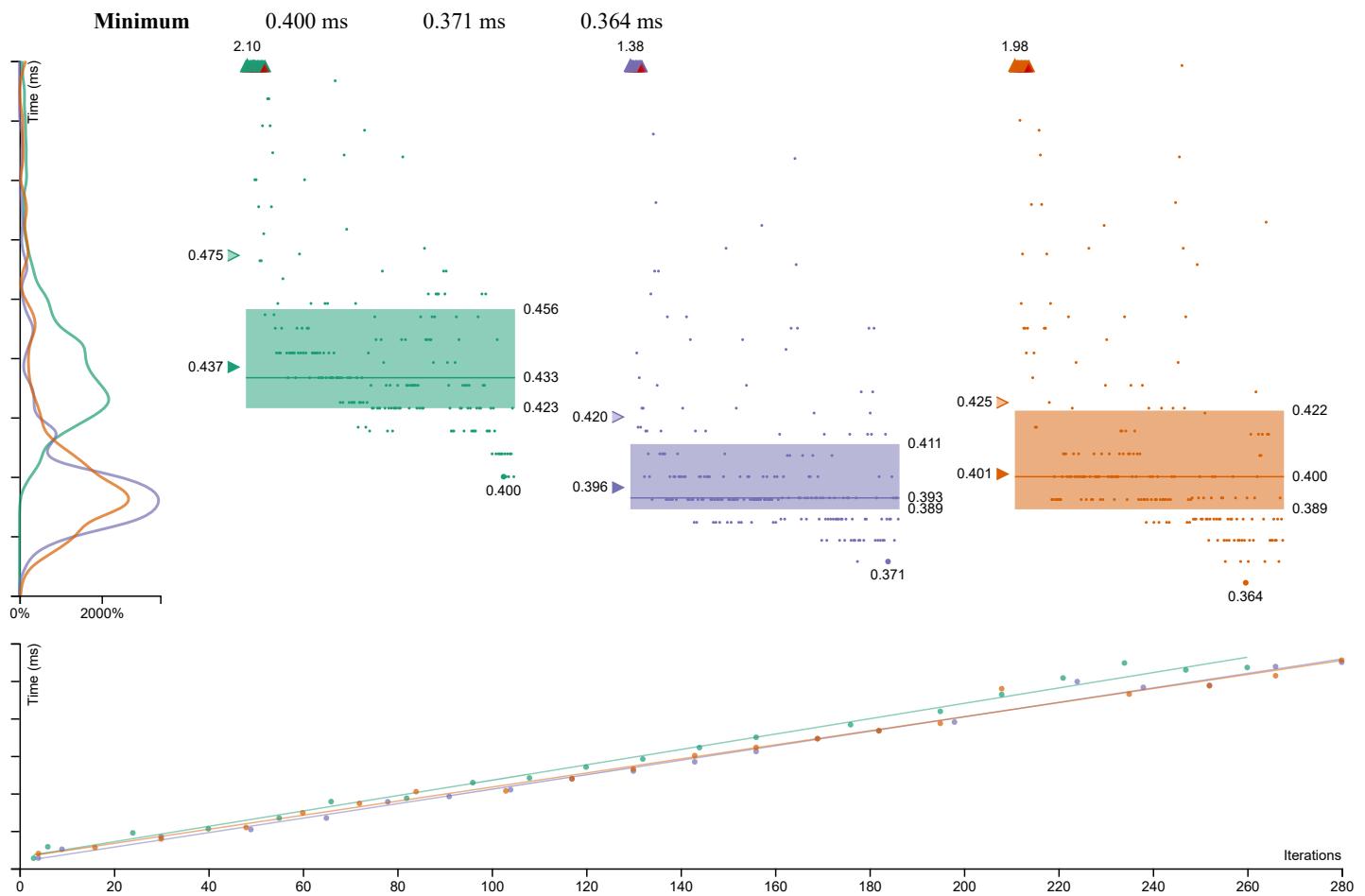
TITLE

MapLibre GL JS Benchmarks – Finished

LayerFill   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|	HEAD 6935737	main b287640	fill-opacity-per-layer 7727eac
(20% trimmed) Mean	0.866 ms	0.794 ms	0.766 ms
(Windsorized) Deviation	0.0494 ms	0.0822 ms	0.0656 ms
R² Slope / Correlation	0.841 ms / 0.982 ⚠	0.809 ms / 0.982 ⚠	0.828 ms / 0.987 ⚠
Minimum	0.567 ms	0.650 ms	0.675 ms
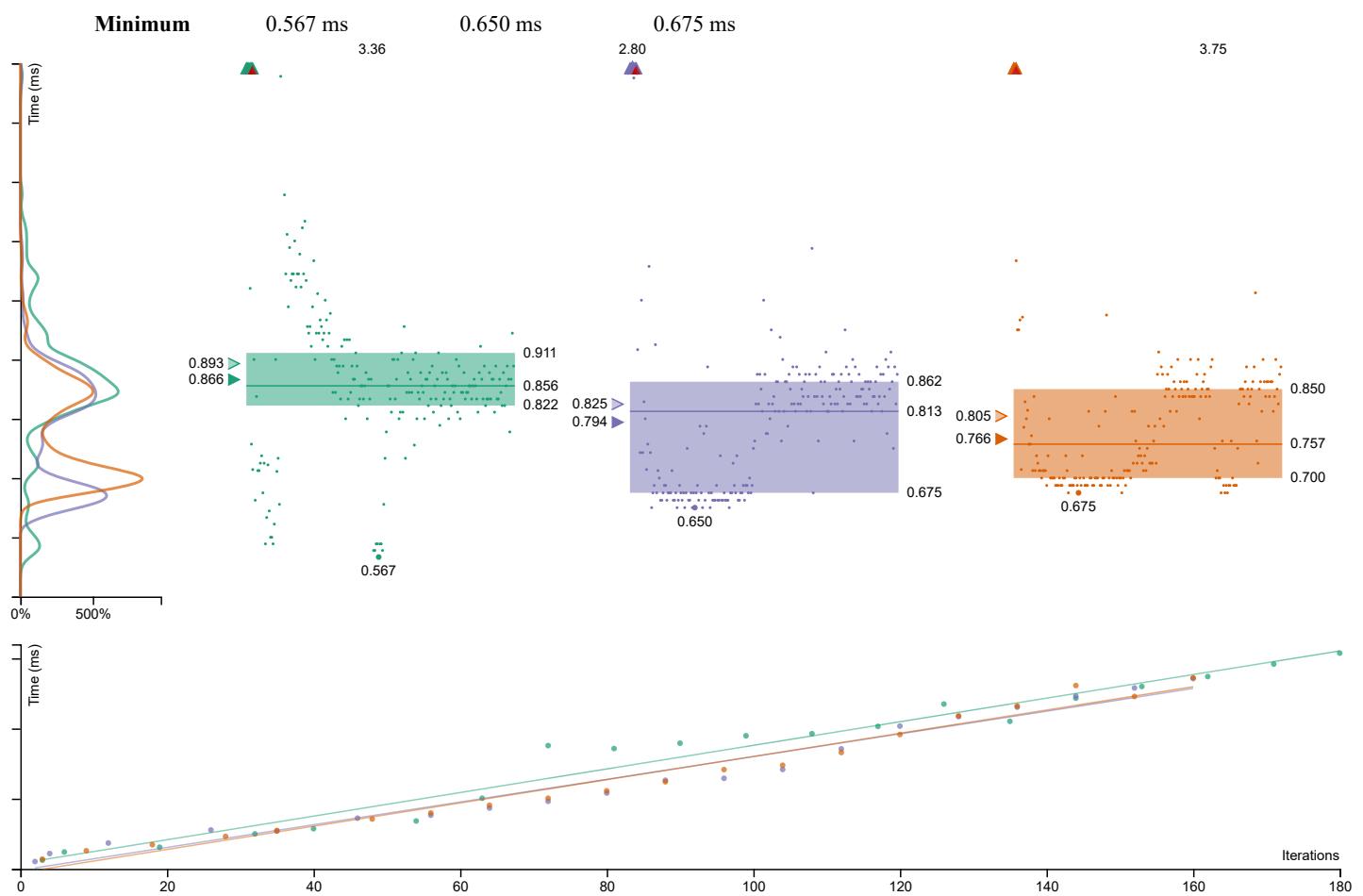
TITLE

MapLibre GL JS Benchmarks – Finished

LayerFillExtrusion   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	2.49 ms	2.50 ms	2.48 ms
(Windsorized) Deviation	0.0631 ms	0.0672 ms	0.0746 ms
R² Slope / Correlation	2.65 ms / 0.994	2.68 ms / 0.990 ⚠	2.69 ms / 0.992
Minimum	0.510 ms	0.567 ms	0.600 ms
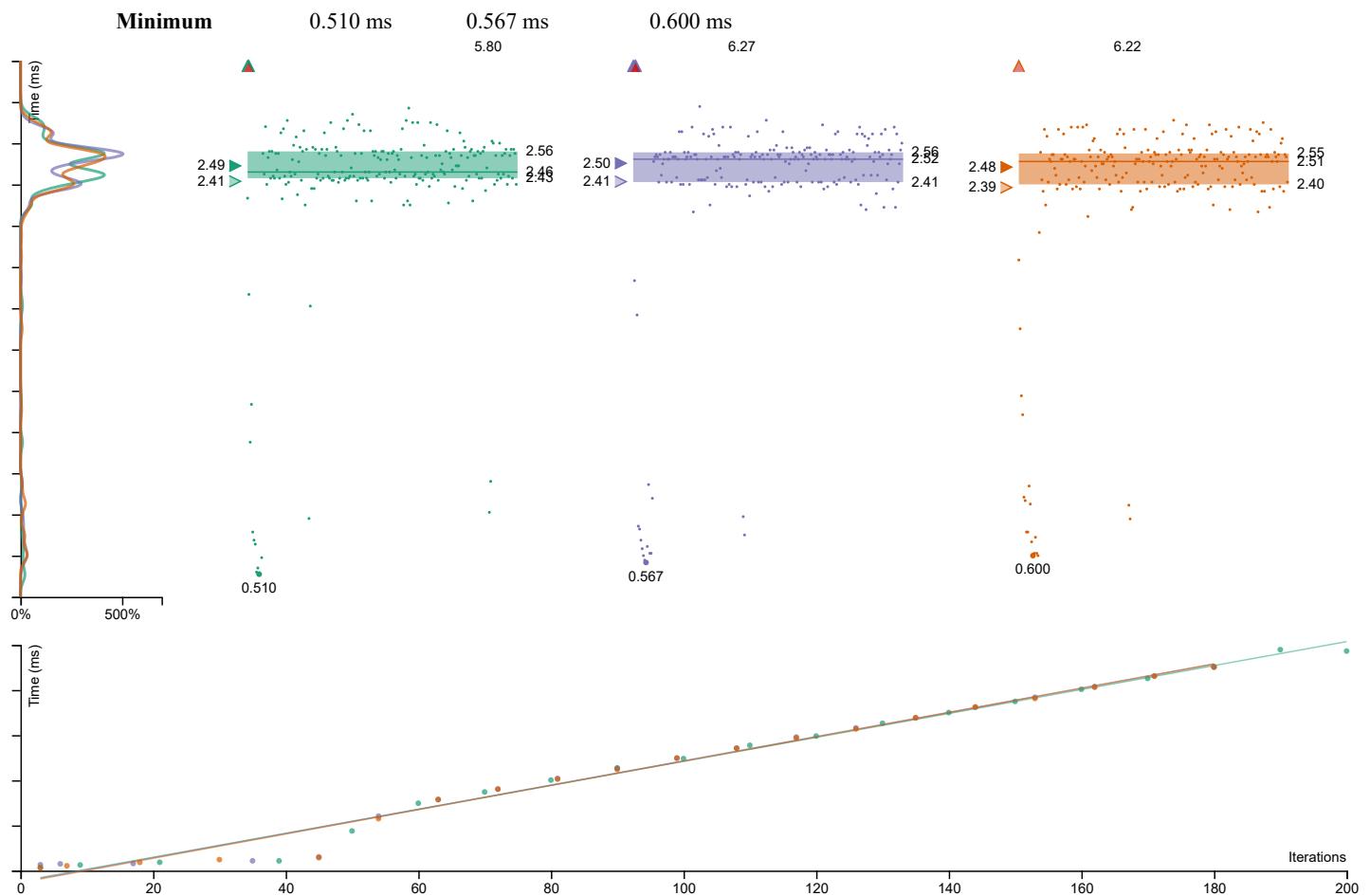
TITLE

MapLibre GL JS Benchmarks – Finished

LayerHeatmap   **HEAD 6935737**   **main b287640**   **fill-opacity-per-layer 7727eac**

|			
(20% trimmed) Mean	0.814 ms	0.795 ms	0.797 ms
(Windsorized) Deviation	0.0352 ms	0.0456 ms	0.0501 ms
R² Slope / Correlation	0.927 ms / 0.969 ⚠	0.910 ms / 0.960 ⚠	0.911 ms / 0.960 ⚠
Minimum	0.232 ms	0.255 ms	0.255 ms
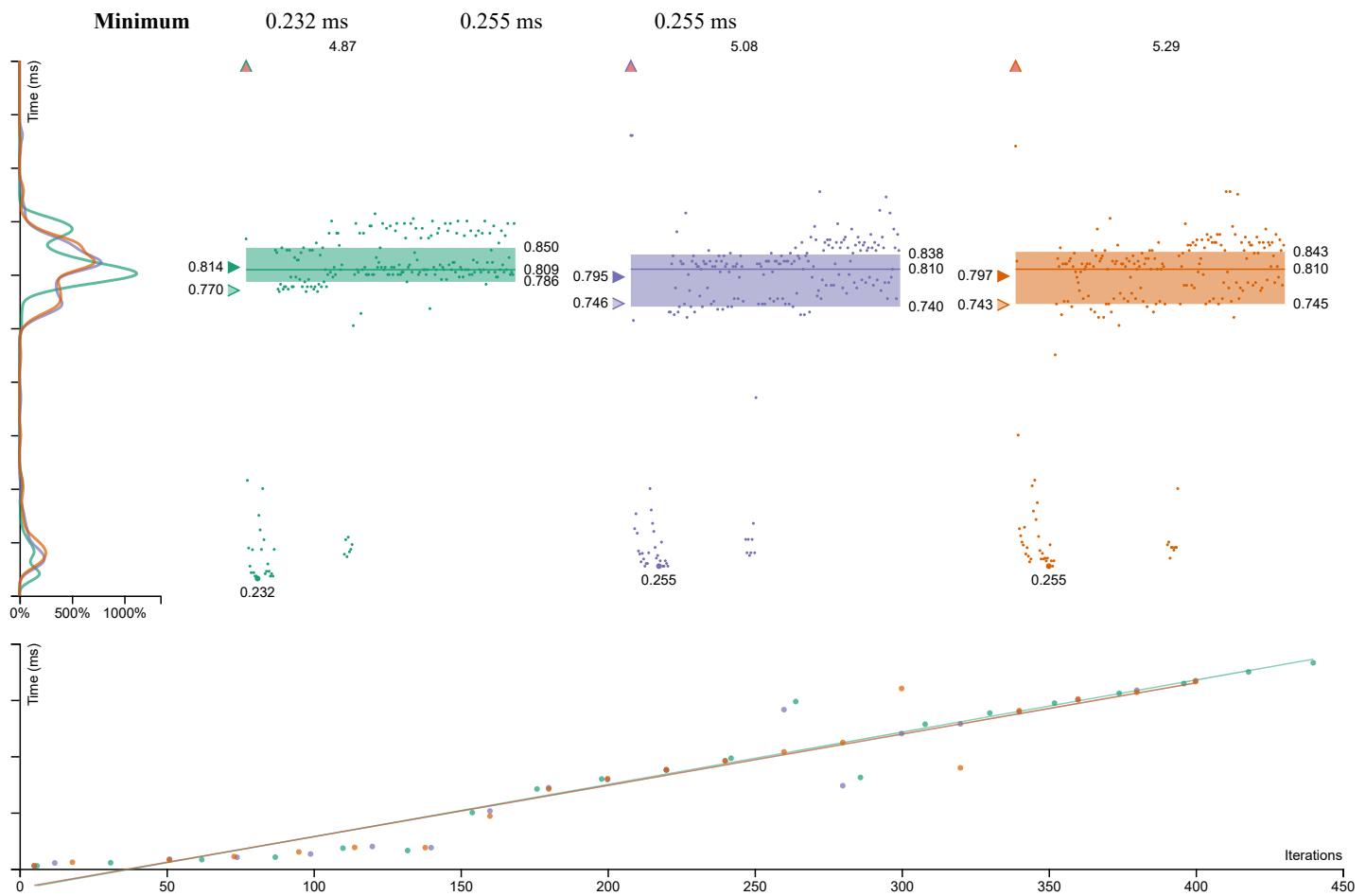
TITLE

MapLibre GL JS Benchmarks – Finished

LayerHillshade HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	1.42 ms	1.46 ms	1.45 ms
(Windsorized) Deviation	0.138 ms	0.117 ms	0.176 ms
R² Slope / Correlation	1.69 ms / 0.968 ⚠	1.75 ms / 0.969 ⚠	1.78 ms / 0.970 ⚠
Minimum	0.192 ms	0.217 ms	0.222 ms
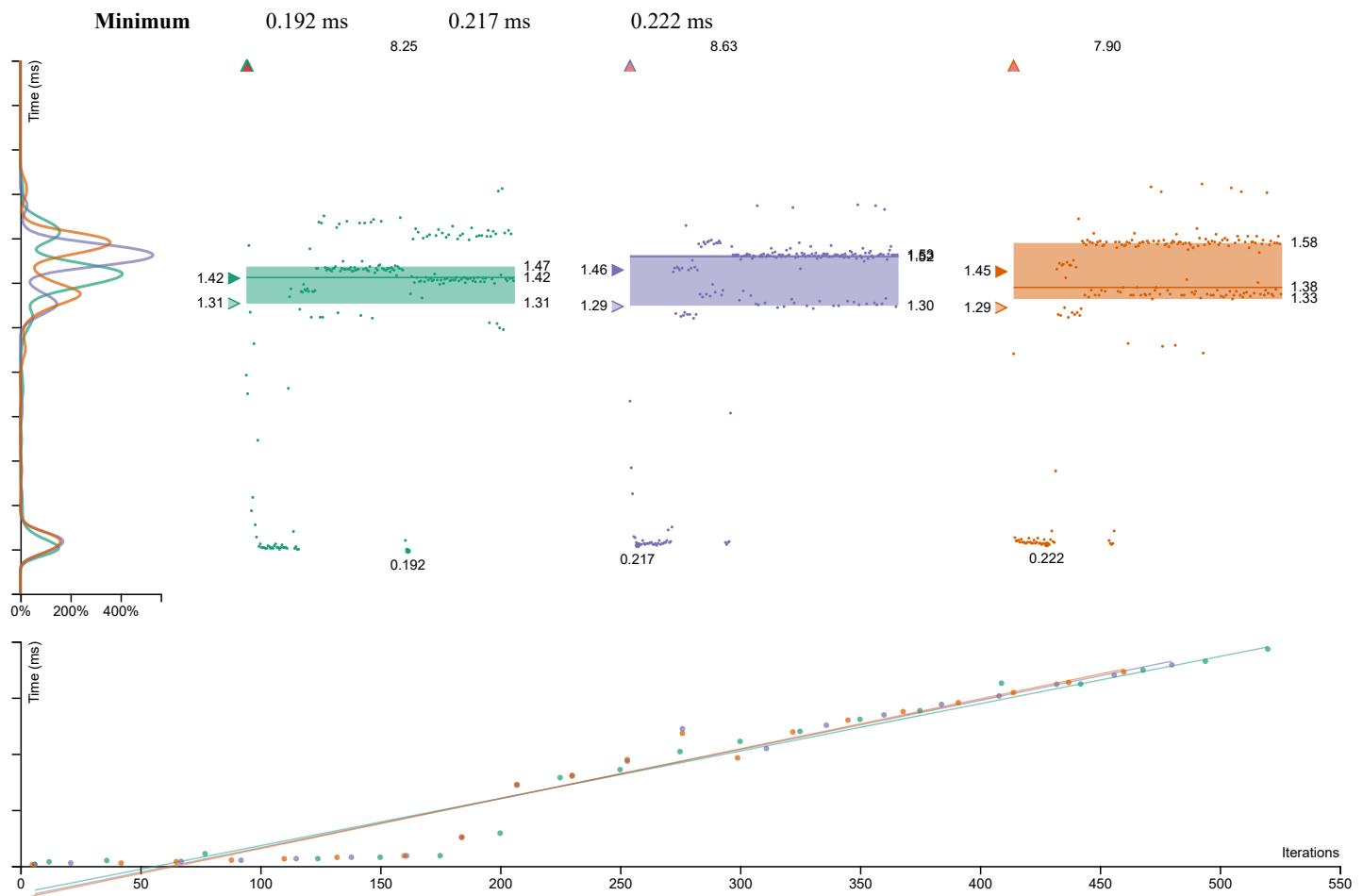
TITLE

MapLibre GL JS Benchmarks – Finished

LayerLine   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.466 ms	0.435 ms	0.444 ms
(Windsorized) Deviation	0.0193 ms	0.0162 ms	0.0186 ms
R² Slope / Correlation	0.426 ms / 0.996	0.420 ms / 0.995	0.457 ms / 0.980 ⚠️
Minimum	0.425 ms	0.400 ms	0.417 ms
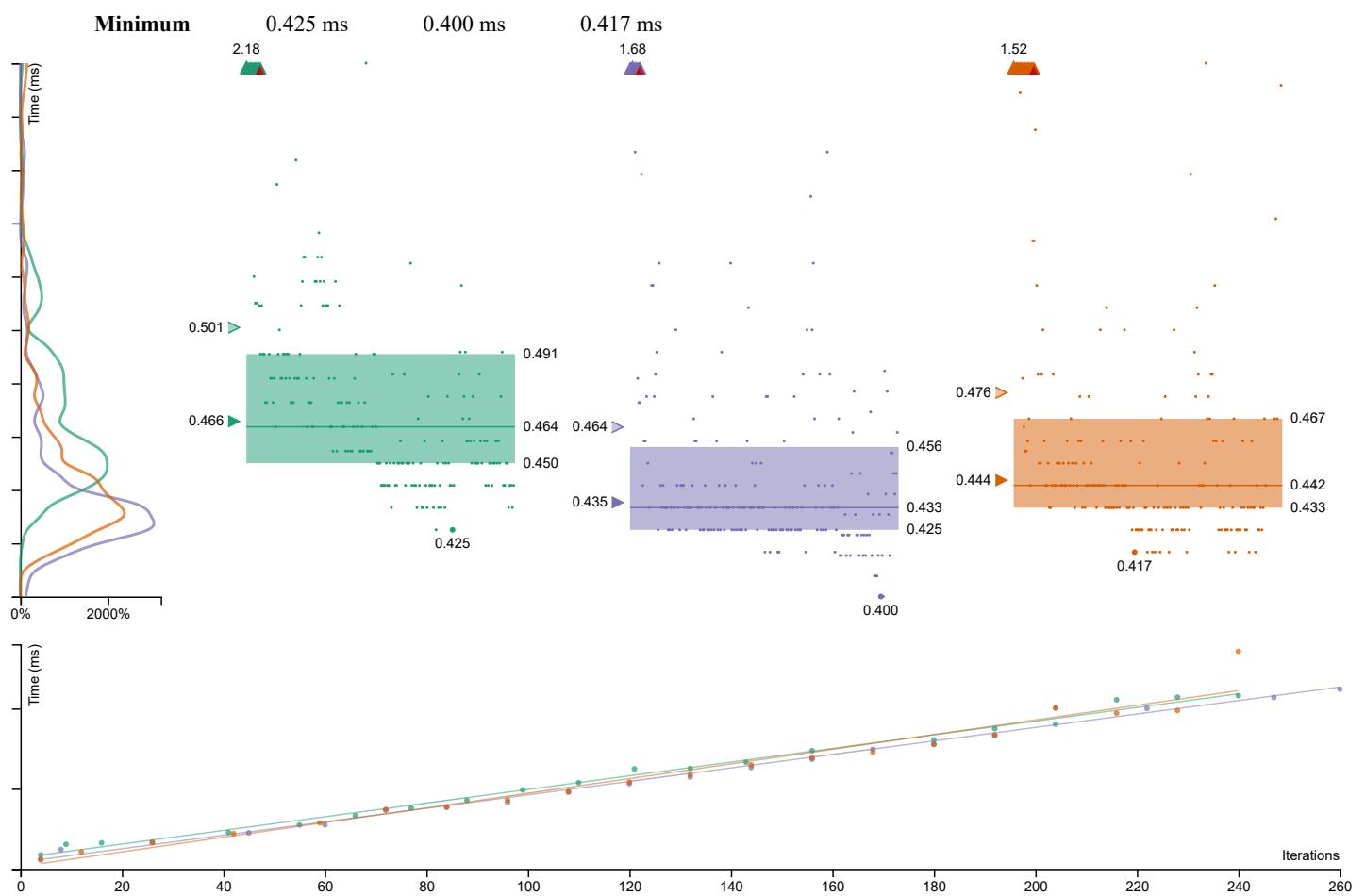
TITLE

MapLibre GL JS Benchmarks – Finished

LayerRaster   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	4.27 ms	4.67 ms	4.55 ms
(Windsorized) Deviation	0.0918 ms	0.136 ms	0.154 ms
R² Slope / Correlation	4.31 ms / 0.998	4.59 ms / 0.999	4.42 ms / 0.999
Minimum	4.00 ms	4.45 ms	4.35 ms
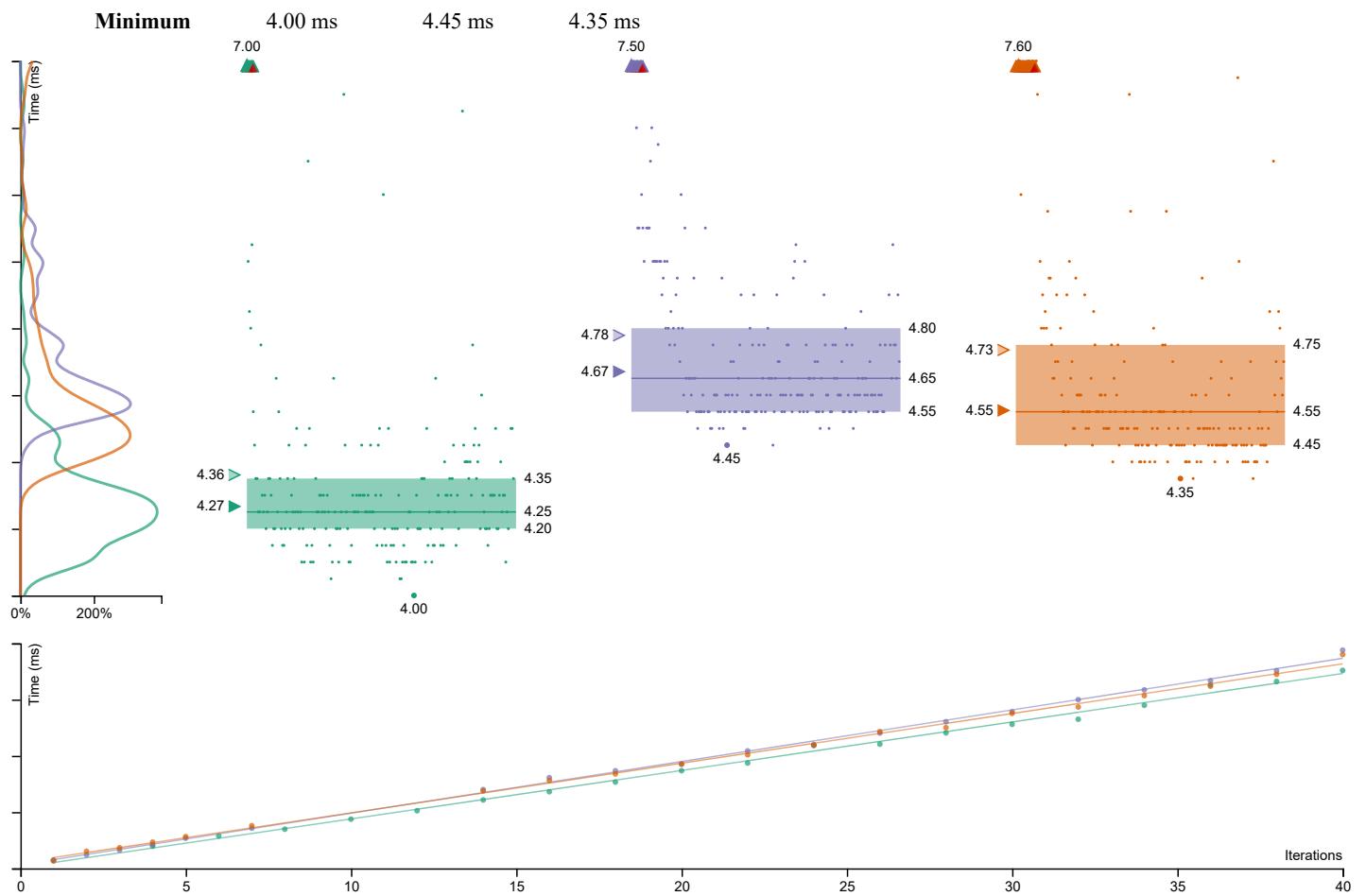
TITLE

MapLibre GL JS Benchmarks – Finished

LayerSymbol   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|	HEAD 6935737	main b287640	fill-opacity-per-layer 7727eac
(20% trimmed) Mean	1.50 ms	1.44 ms	1.46 ms
(Windsorized) Deviation	0.109 ms	0.0589 ms	0.0965 ms
R² Slope / Correlation	1.44 ms / 0.974 ⚠	1.55 ms / 0.972 ⚠	1.56 ms / 0.973 ⚠
Minimum	1.40 ms	1.35 ms	1.35 ms
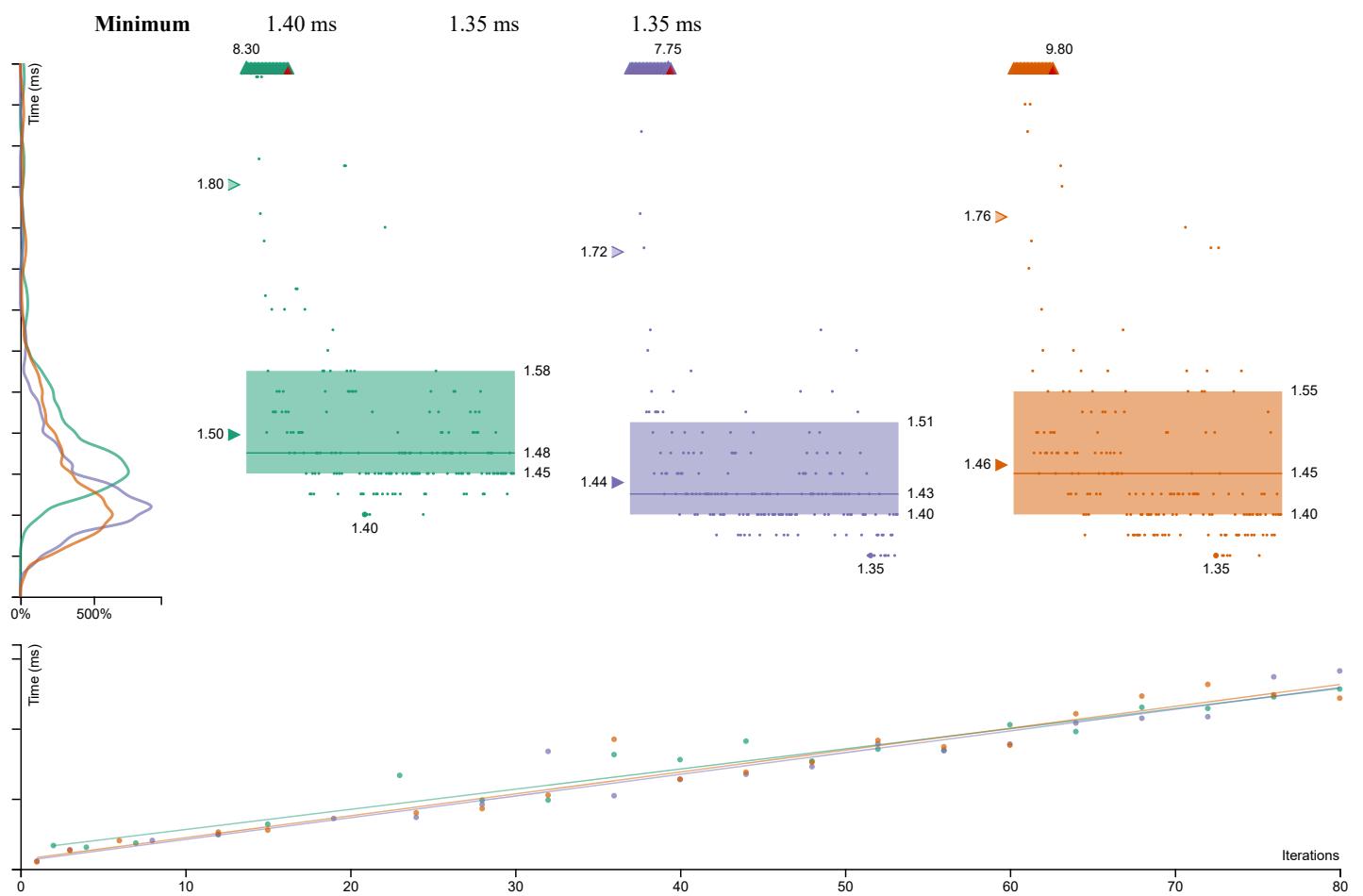
TITLE

MapLibre GL JS Benchmarks – Finished

LayerSymbolWithIcons HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	1.57 ms	1.59 ms	1.52 ms
(Windsorized) Deviation	0.150 ms	0.130 ms	0.132 ms
R² Slope / Correlation	1.66 ms / 0.956 ⚠️	1.71 ms / 0.976 ⚠️	1.57 ms / 0.971 ⚠️
Minimum	1.45 ms	1.38 ms	1.40 ms
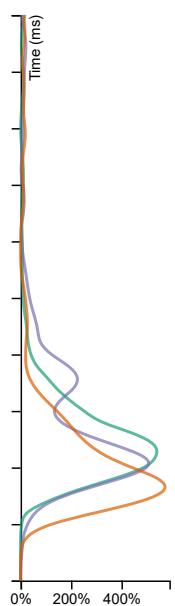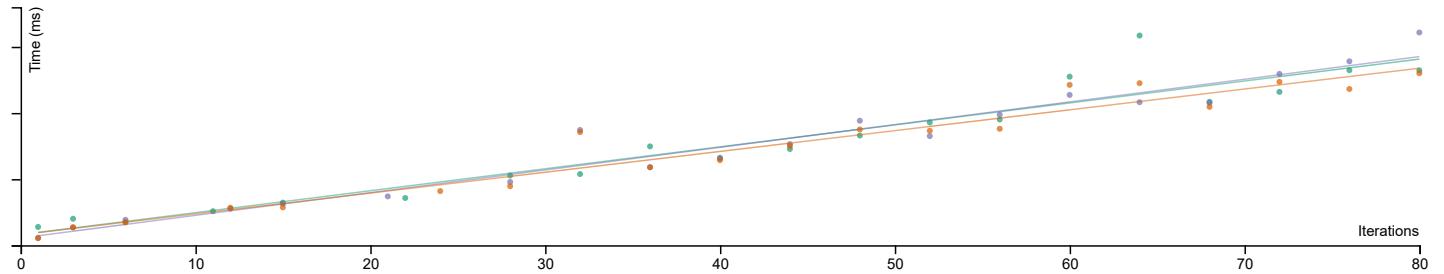
TITLE

MapLibre GL JS Benchmarks – Finished

LayerTextWithVariableAnchor HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	56.5 ms	58.3 ms	64.0 ms
(Windsorized) Deviation	2.05 ms	2.60 ms	8.09 ms
R² Slope / Correlation	54.0 ms / 0.998	57.0 ms / 0.999	75.3 ms / 0.985 ⚠
Minimum	51.0 ms	52.8 ms	54.4 ms
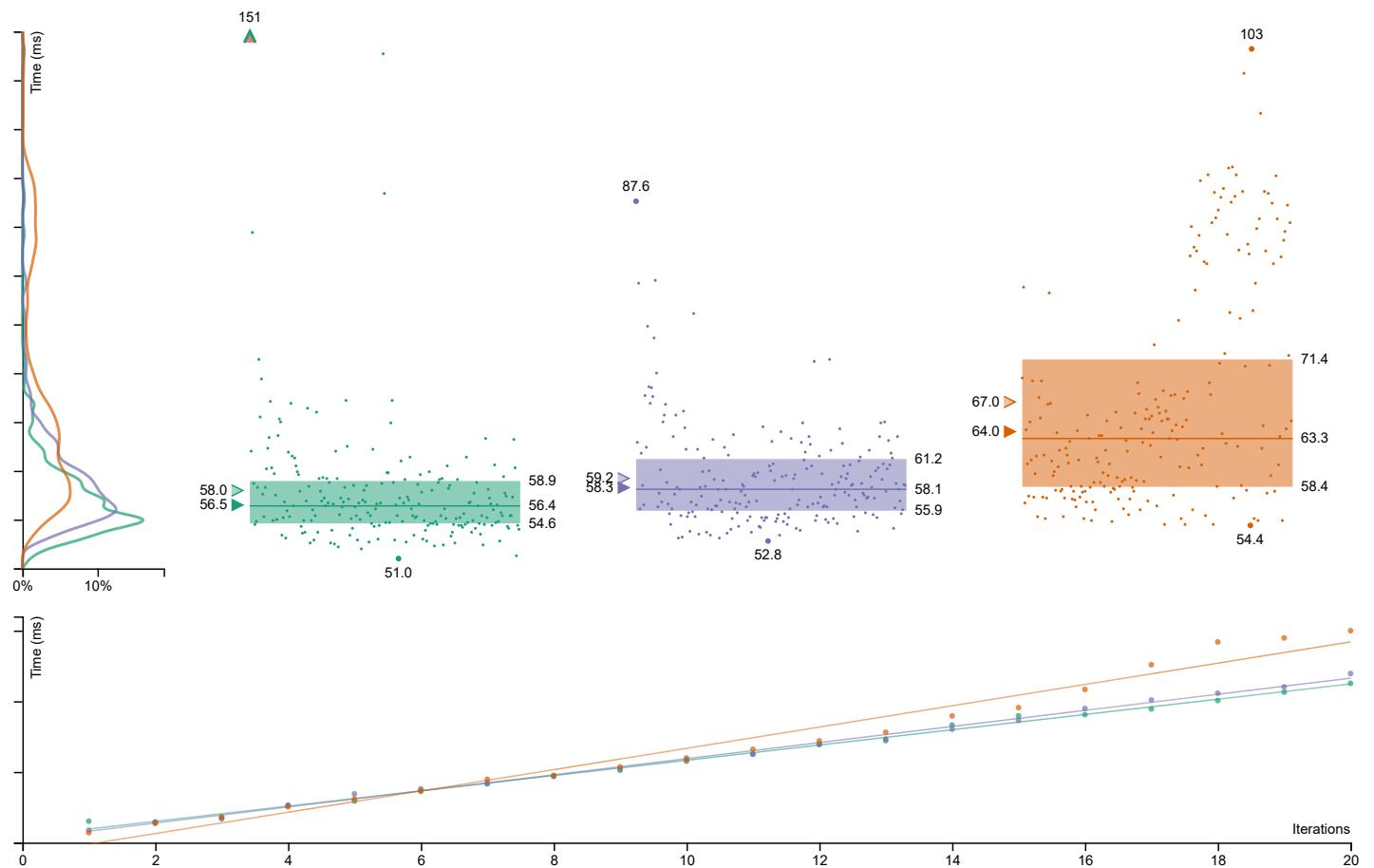
TITLE

MapLibre GL JS Benchmarks – Finished

LayerSymbolWithSortKey   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

	HEAD 6935737	main b287640	fill-opacity-per-layer 7727eac
(20% trimmed) Mean	0.971 ms	0.939 ms	0.946 ms
(Windsorized) Deviation	0.217 ms	0.209 ms	0.205 ms
R² Slope / Correlation	1.50 ms / 0.693 ☠	1.30 ms / 0.724 ☠	1.37 ms / 0.718 ☠
Minimum	0.850 ms	0.800 ms	0.829 ms
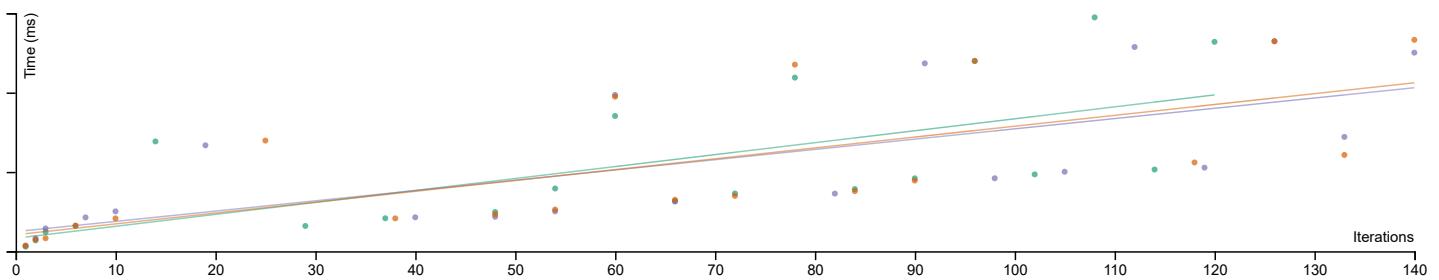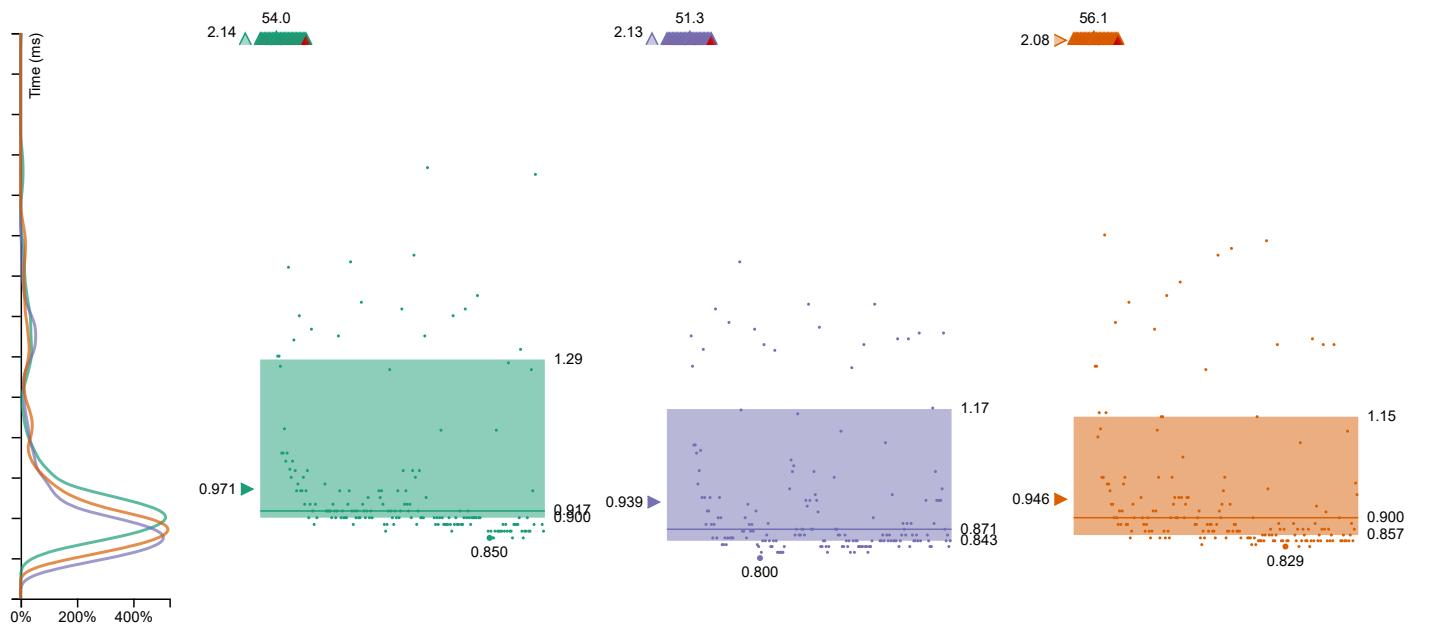
TITLE

MapLibre GL JS Benchmarks – Finished

(20% trimmed) Mean	33.3 ms	33.4 ms	33.2 ms
(Windsorized) Deviation	0.461 ms	2.01 ms	2.00 ms
R² Slope / Correlation	33.3 ms / 1.000	33.1 ms / 1.000	33.3 ms / 1.000
Minimum	16.9 ms	25.7 ms	24.6 ms
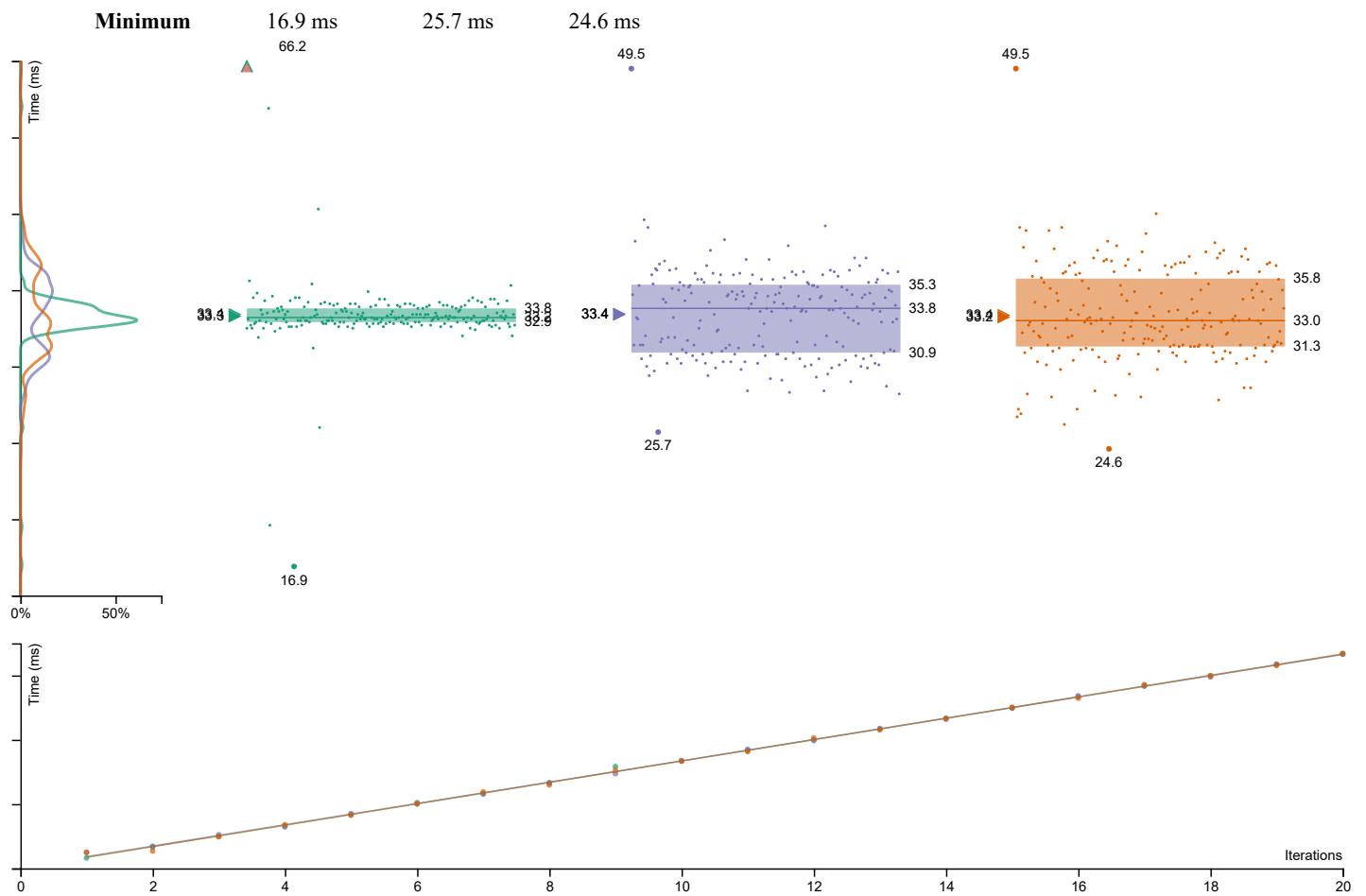
TITLE

MapLibre GL JS Benchmarks – Finished

SymbolLayout HEAD 6935737 main b287640 fill-opacity-per-layer 7727eac

(20% trimmed) Mean	11.4 ms	11.6 ms	11.4 ms
(Windsorized) Deviation	0.193 ms	0.225 ms	0.195 ms
R² Slope / Correlation	10.7 ms / 0.999	10.9 ms / 0.997	10.7 ms / 0.998
Minimum	10.4 ms	10.5 ms	10.5 ms
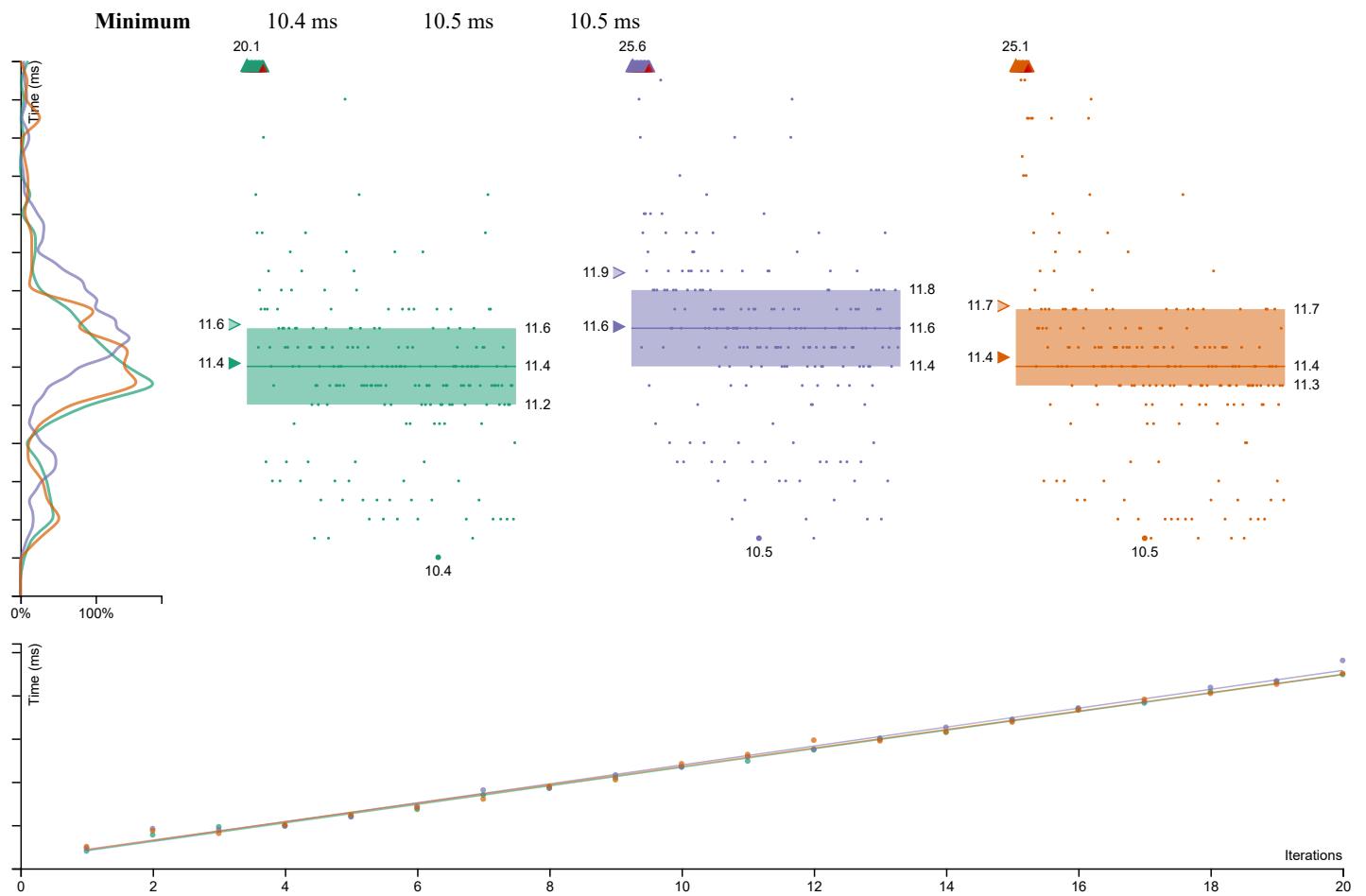
TITLE

MapLibre GL JS Benchmarks – Finished

FilterCreate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

|			
(20% trimmed) Mean	0.770 ms	0.804 ms	0.795 ms
(Windsorized) Deviation	0.0334 ms	0.0223 ms	0.0215 ms
R² Slope / Correlation	0.724 ms / 0.996	0.762 ms / 0.998	0.769 ms / 0.999
Minimum	0.729 ms	0.771 ms	0.757 ms
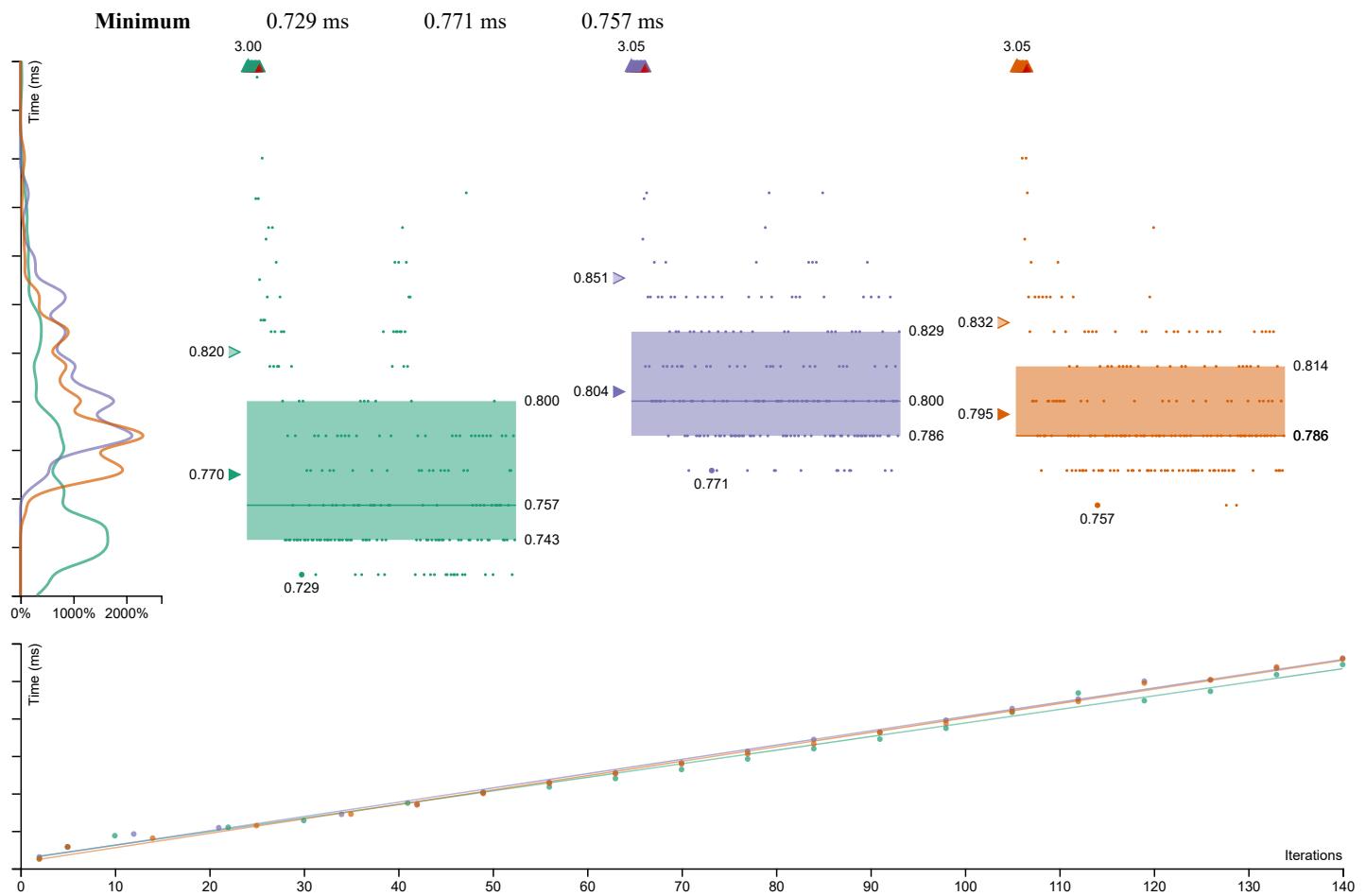
TITLE

MapLibre GL JS Benchmarks – Finished

FilterEvaluate   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean   0.756 ms   0.732 ms   0.726 ms

(Windsorized) Deviation 0.0211 ms   0.0179 ms   0.0183 ms

R² Slope / Correlation 0.740 ms / 0.995 0.711 ms / 0.998 0.705 ms / 0.997

Minimum   0.714 ms   0.700 ms   0.688 ms
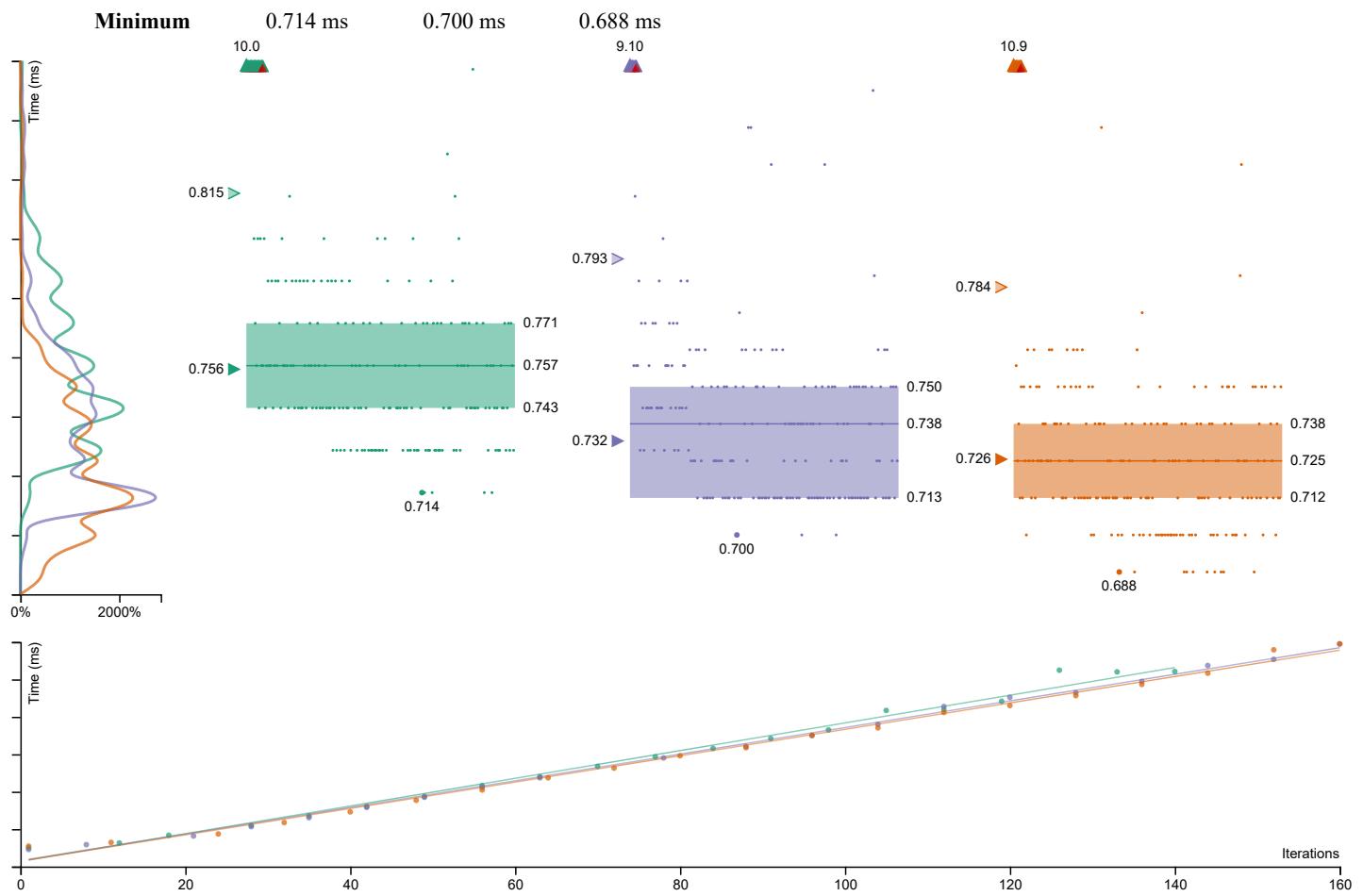
TITLE

MapLibre GL JS Benchmarks – Finished

HillshadeLoad   HEAD 6935737   main b287640   fill-opacity-per-layer 7727eac

(20% trimmed) Mean	350 ms	351 ms	367 ms
(Windsorized) Deviation	0.677 ms	2.17 ms	2.56 ms
R² Slope / Correlation	322 ms / 0.978 ⚠️	356 ms / 1.000	375 ms / 0.999
Minimum	342 ms	344 ms	349 ms