

# TITLE

## MapLibre GL JS Benchmarks – Finished

Paint

v4.3.1

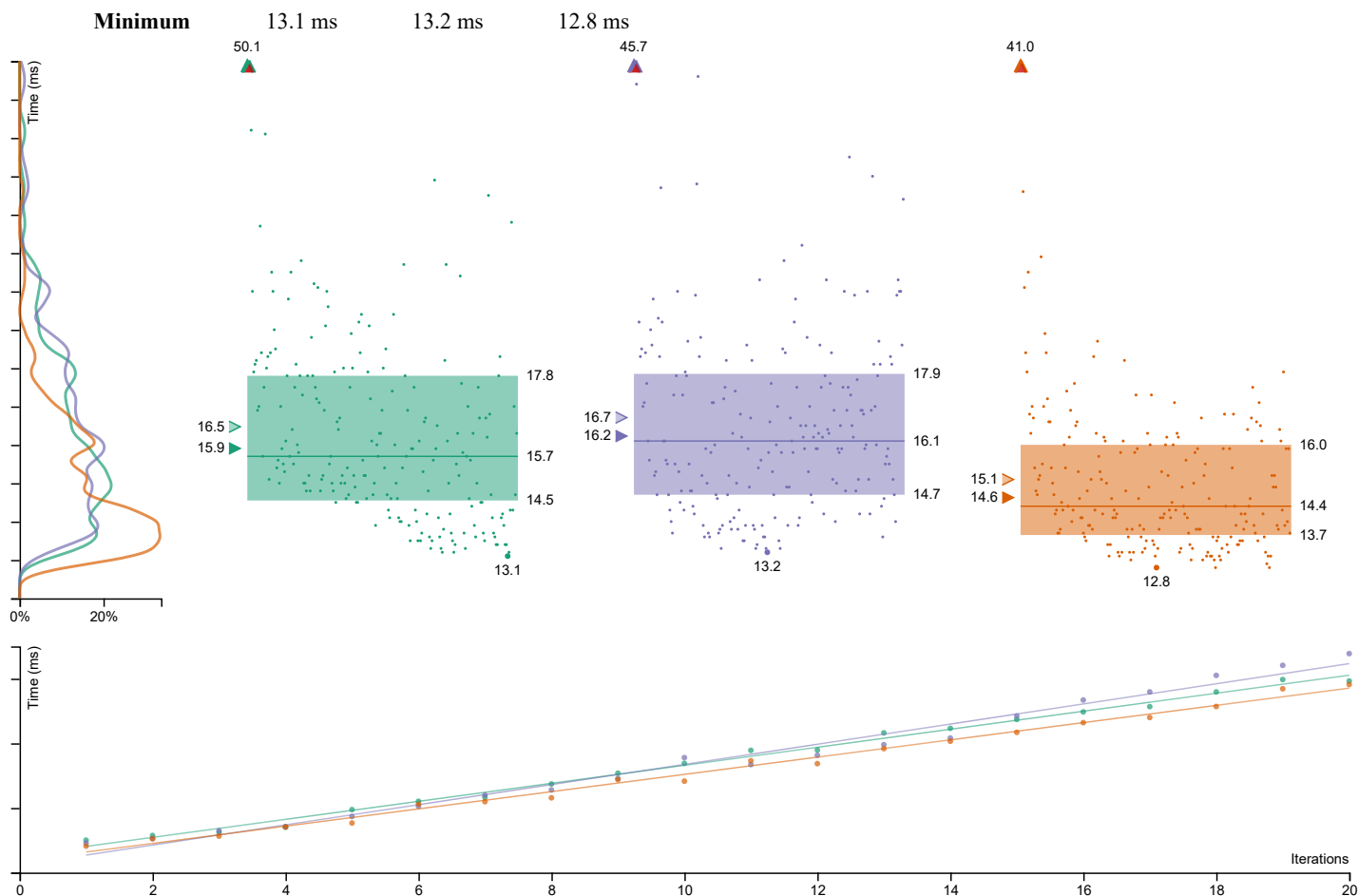
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 15.9 ms 16.2 ms 14.6 ms

(Windsorized) Deviation 1.48 ms 1.53 ms 1.10 ms

R<sup>2</sup> Slope / Correlation 13.9 ms / 0.997 15.6 ms / 0.992 13.3 ms / 0.996



# TITLE

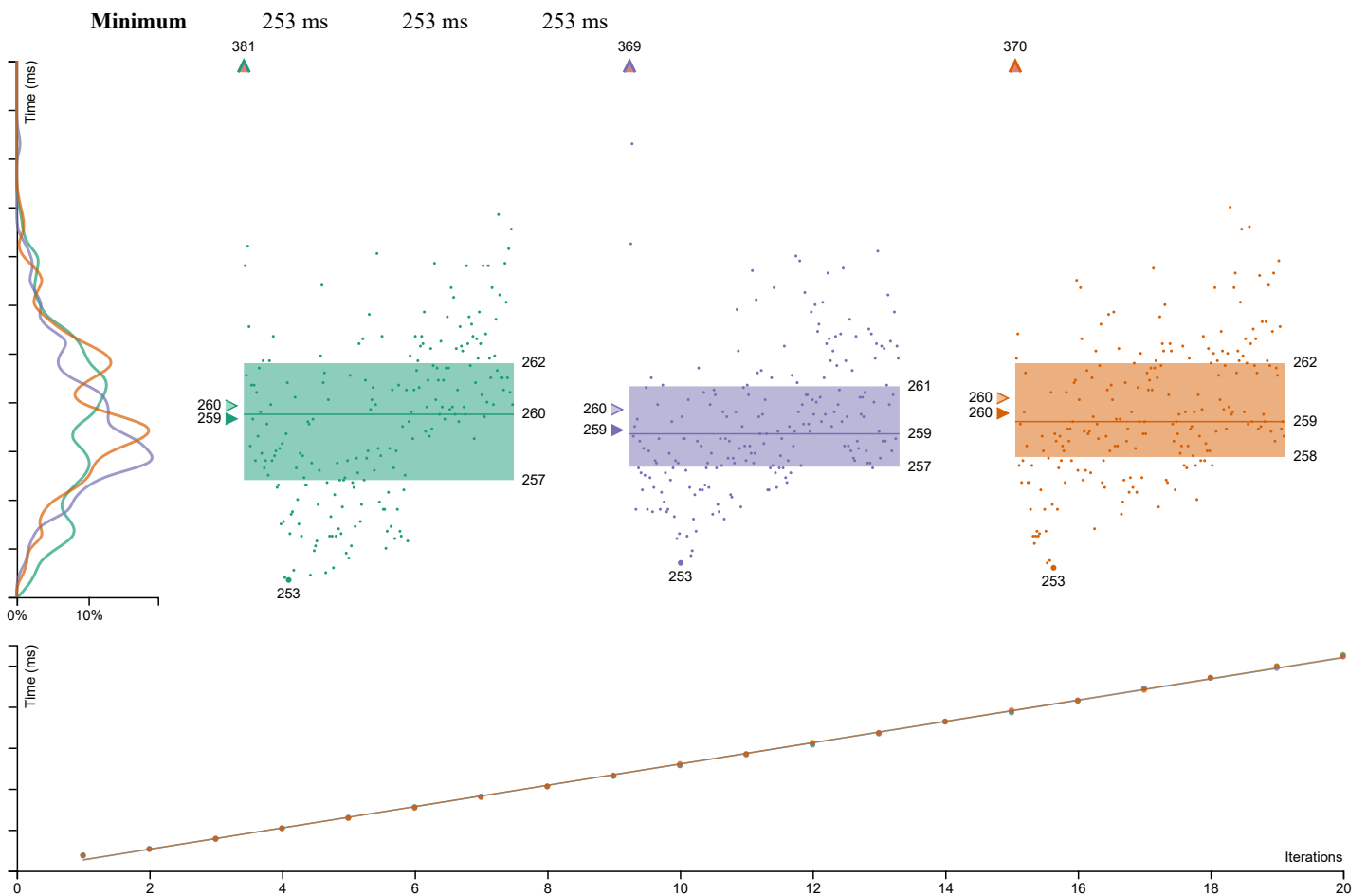
## MapLibre GL JS Benchmarks – Finished

QueryPoint    v4.3.1    main    symbol-text-line-break a8c630e

(20% trimmed) Mean    259 ms    259 ms    260 ms

(Windsorized) Deviation    2.31 ms    1.62 ms    1.80 ms

R<sup>2</sup> Slope / Correlation    259 ms / 1.000    259 ms / 1.000    260 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

QueryBox


v4.3.1

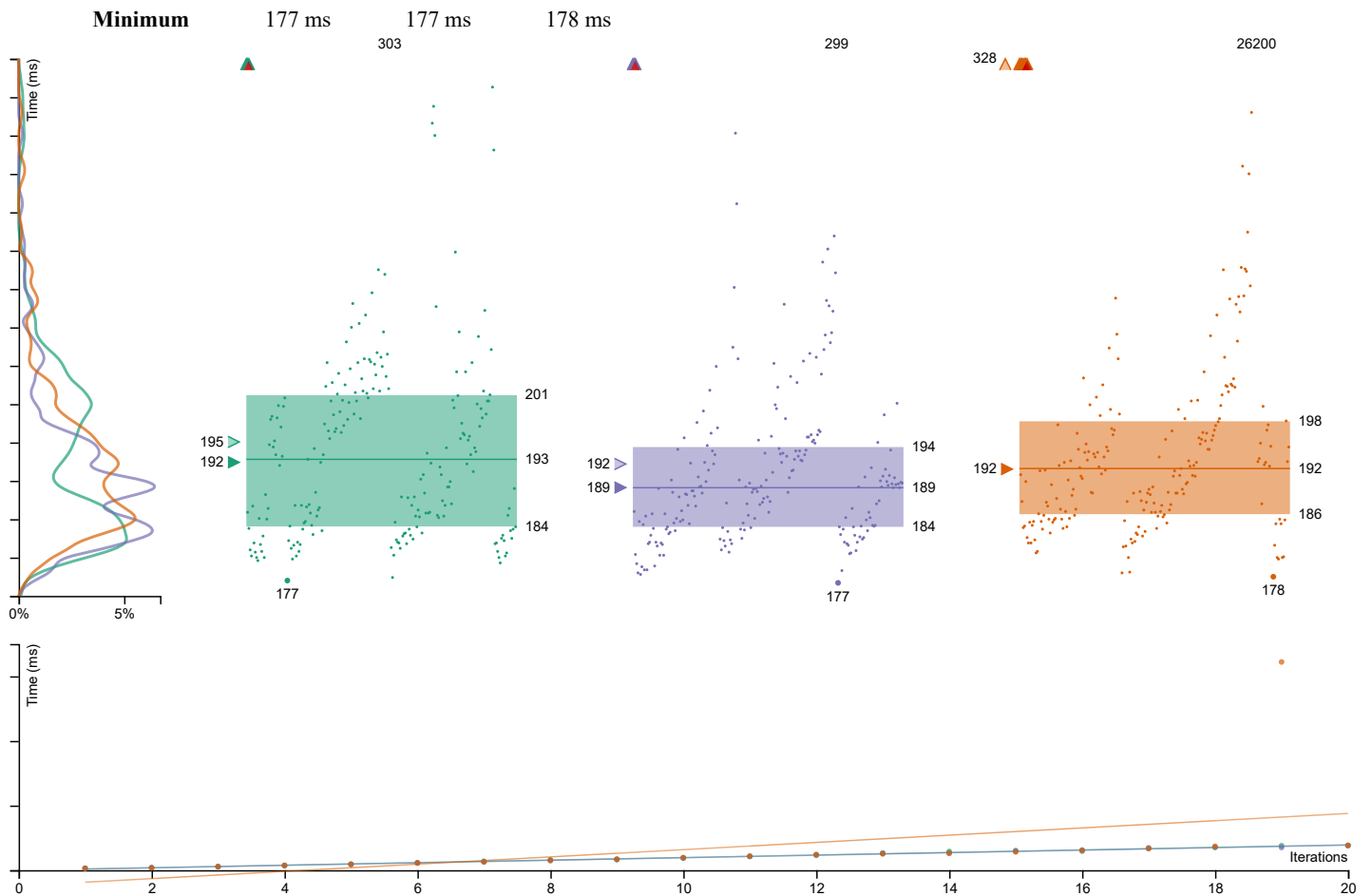
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 192 ms 189 ms 192 ms

(Windsorized) Deviation 7.84 ms 4.87 ms 5.93 ms

R<sup>2</sup> Slope / Correlation 197 ms / 0.997 195 ms / 0.998 560 ms / 0.483 



# TITLE

## MapLibre GL JS Benchmarks – Finished

Layout

v4.3.1

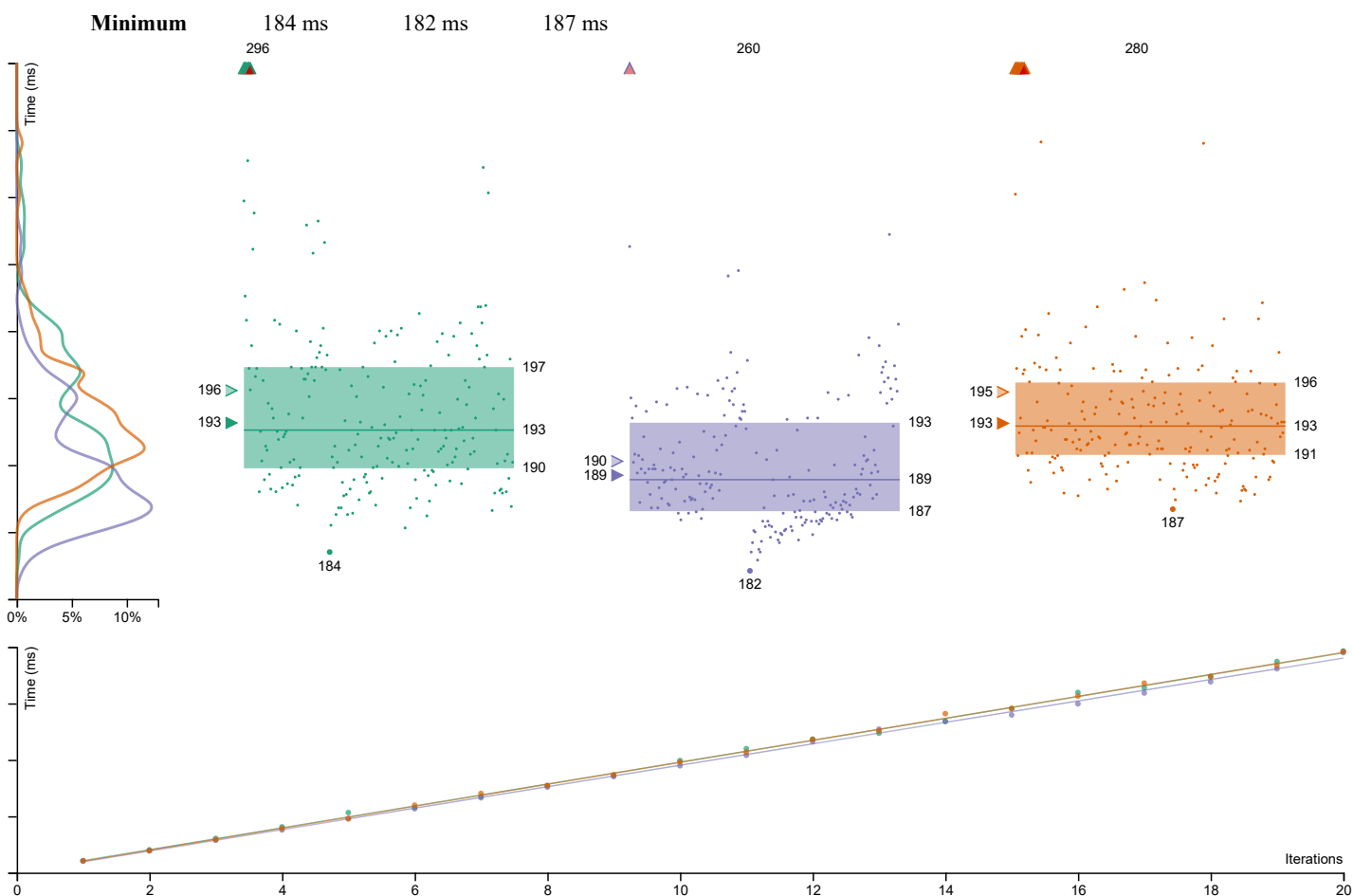
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 193 ms 189 ms 193 ms

(Windsorized) Deviation 3.70 ms 3.12 ms 2.61 ms

R<sup>2</sup> Slope / Correlation 194 ms / 0.999 190 ms / 0.999 195 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

### Placement

v4.3.1

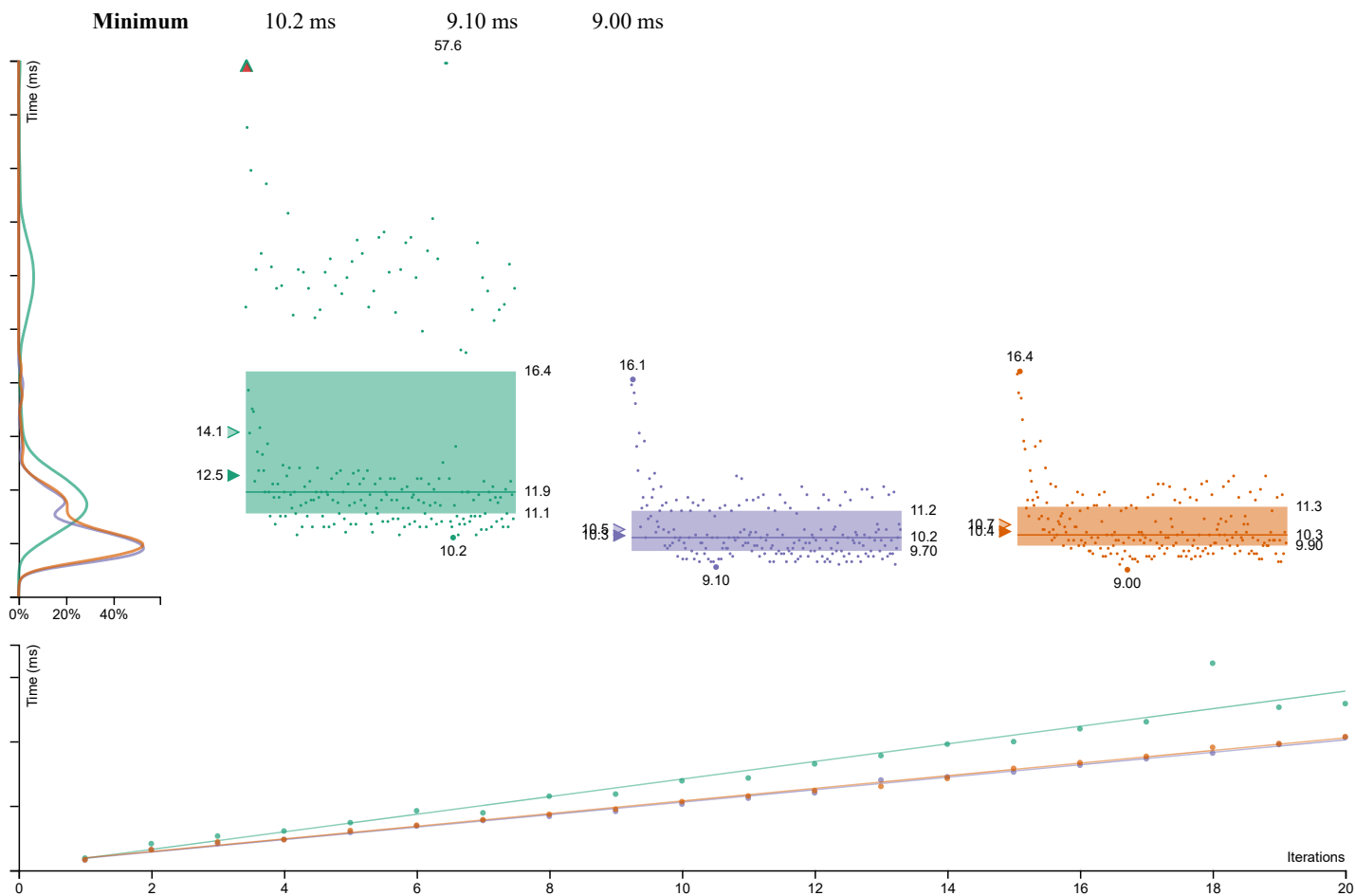
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 12.5 ms 10.3 ms 10.4 ms

(Windsorized) Deviation 3.13 ms 0.697 ms 0.727 ms

R<sup>2</sup> Slope / Correlation 13.6 ms / 0.976 ⚠ 9.67 ms / 0.999 9.79 ms / 0.999



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## MapLibre GL JS Benchmarks – Finished

Validate

v4.3.1

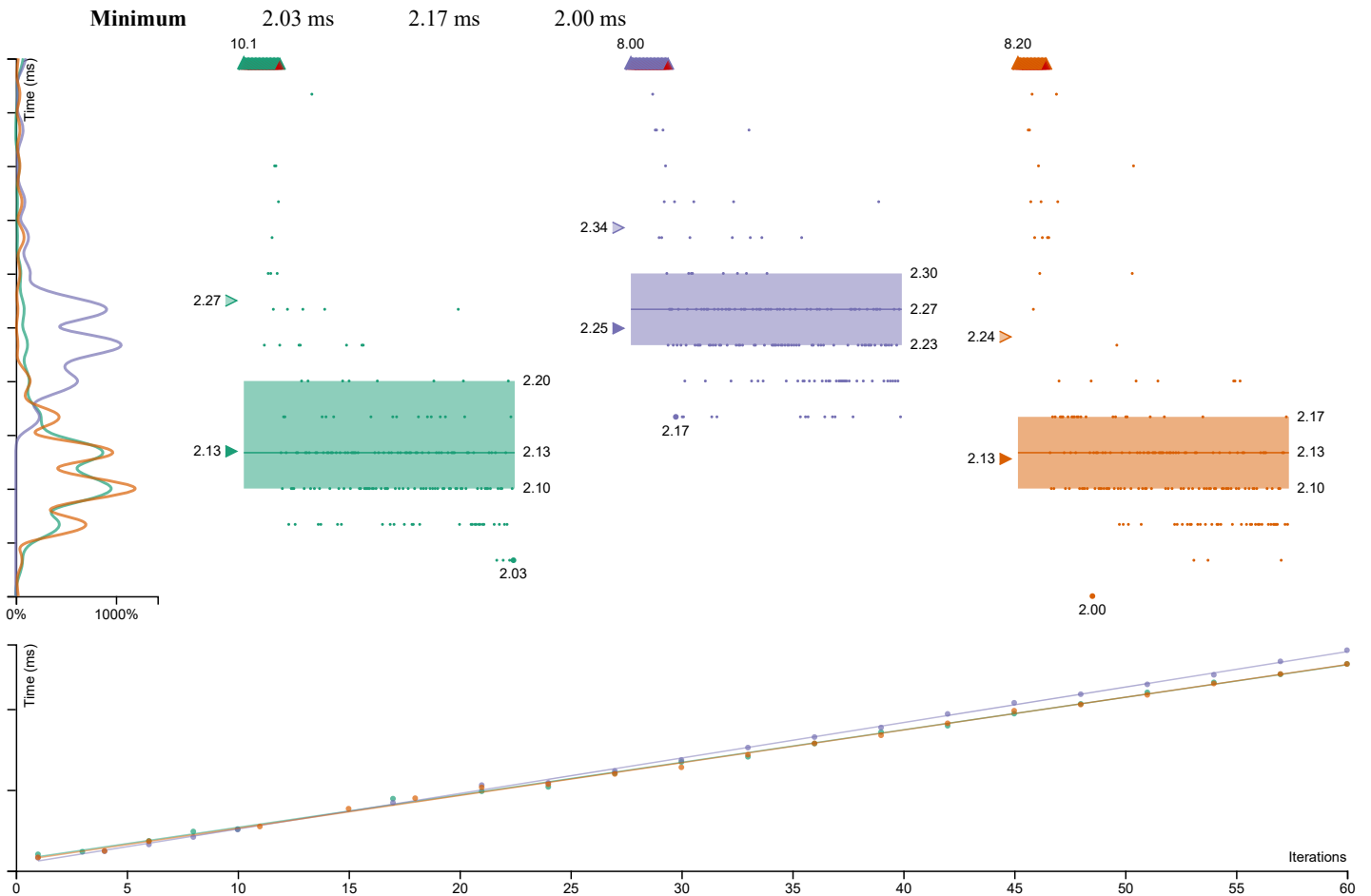
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 2.13 ms 2.25 ms 2.13 ms

(Windsorized) Deviation 0.0532 ms 0.0480 ms 0.0401 ms

R<sup>2</sup> Slope / Correlation 2.01 ms / 0.999 2.19 ms / 1.000 2.03 ms / 0.999



# TITLE

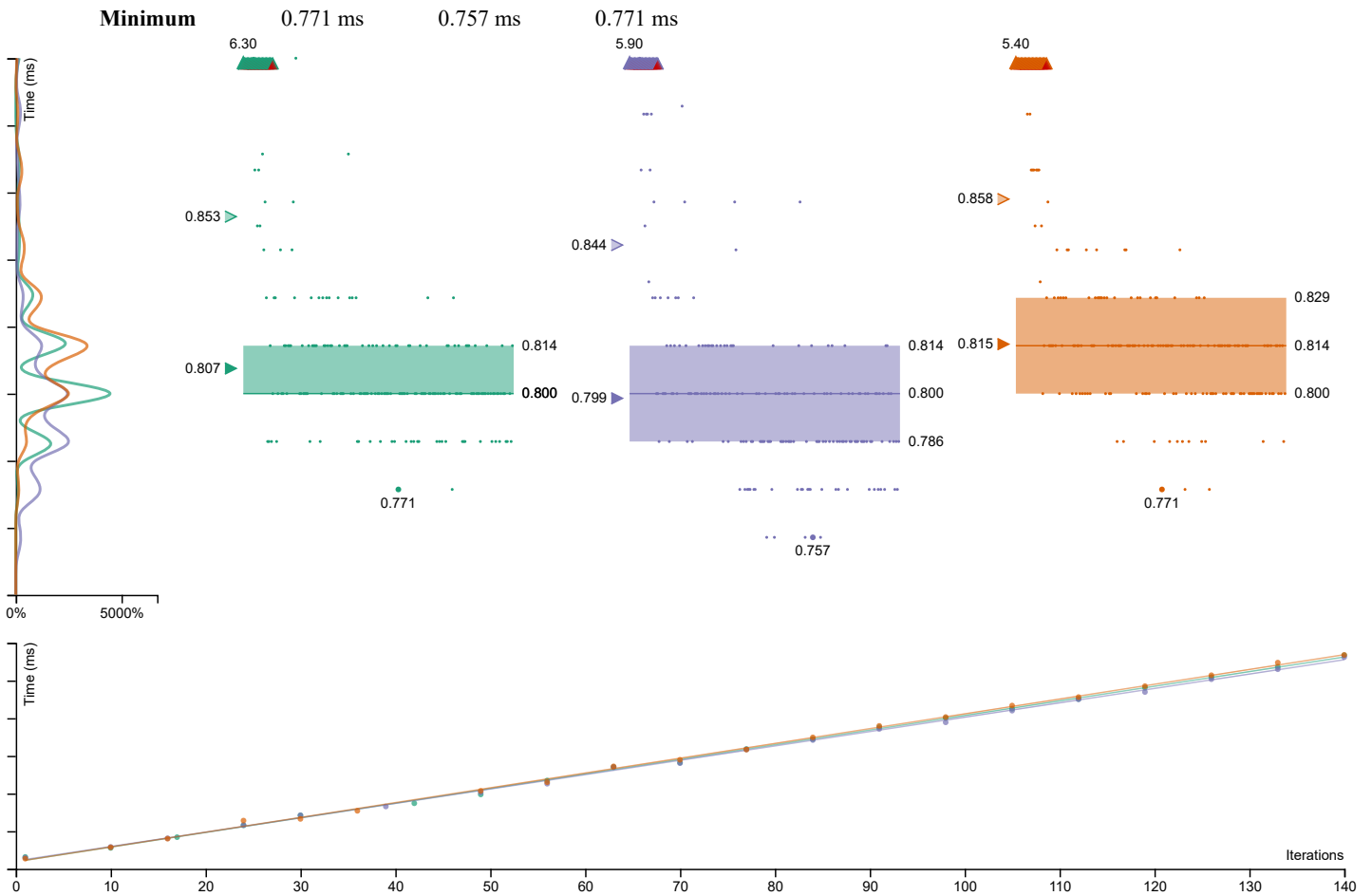
## MapLibre GL JS Benchmarks – Finished

**StyleLayerCreate**    **v4.3.1**    **main**    **symbol-text-line-break a8c630e**

**(20% trimmed) Mean**    0.807 ms    0.799 ms    0.815 ms

**(Windsorized) Deviation**    0.0120 ms    0.0167 ms    0.0159 ms

**R<sup>2</sup> Slope / Correlation**    0.776 ms / 1.000    0.763 ms / 1.000    0.786 ms / 1.000



# TITLE

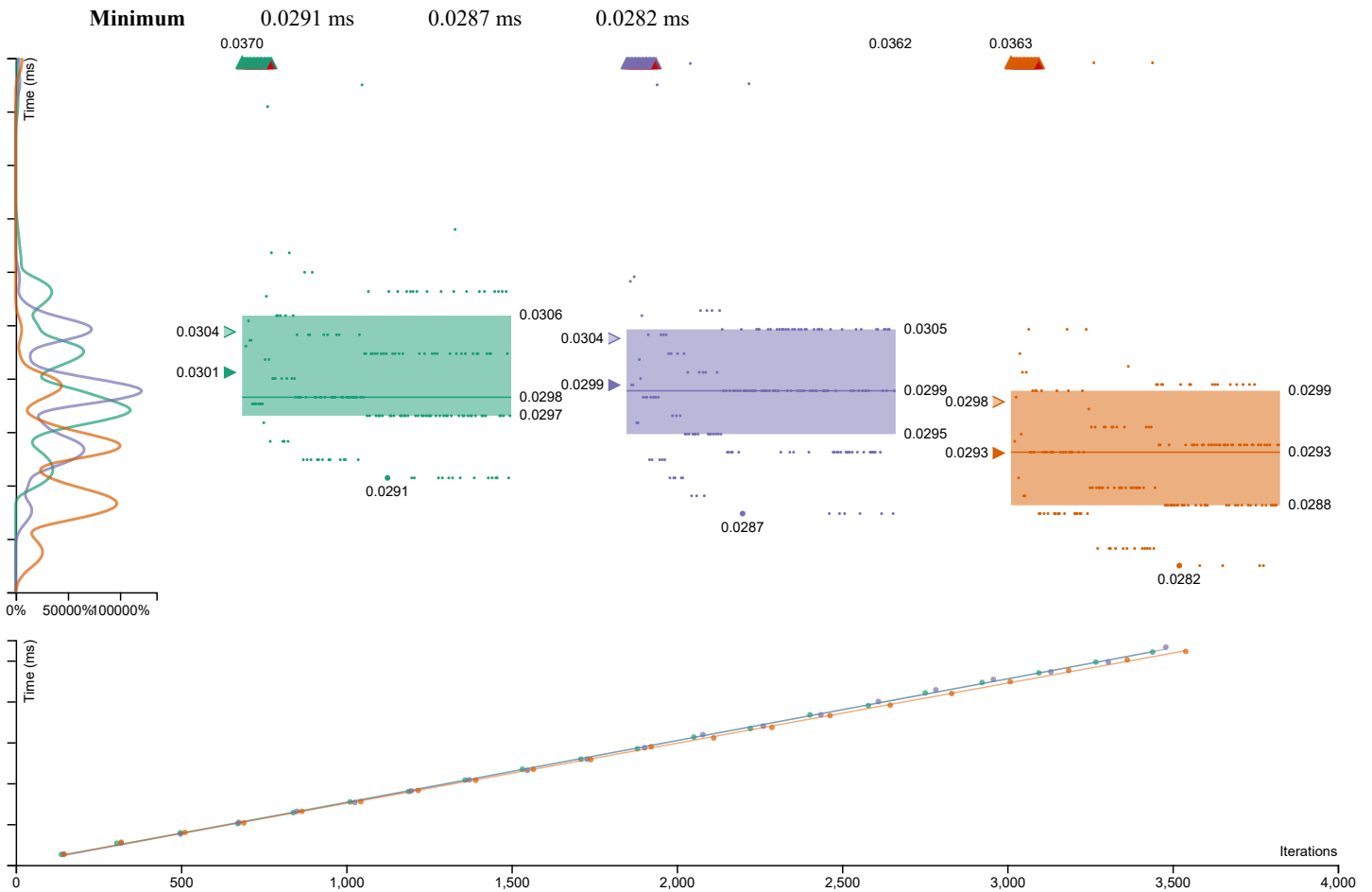
## MapLibre GL JS Benchmarks – Finished

**FunctionCreate**    **v4.3.1**    **main**    **symbol-text-line-break a8c630e**

**(20% trimmed) Mean**    0.0301 ms    0.0299 ms    0.0293 ms

**(Windsorized) Deviation**    0.000465 ms    0.000446 ms    0.000445 ms

**R<sup>2</sup> Slope / Correlation**    0.0301 ms / 1.000    0.0303 ms / 1.000    0.0294 ms / 1.000





# TITLE

## MapLibre GL JS Benchmarks – Finished

FunctionEvaluate

v4.3.1

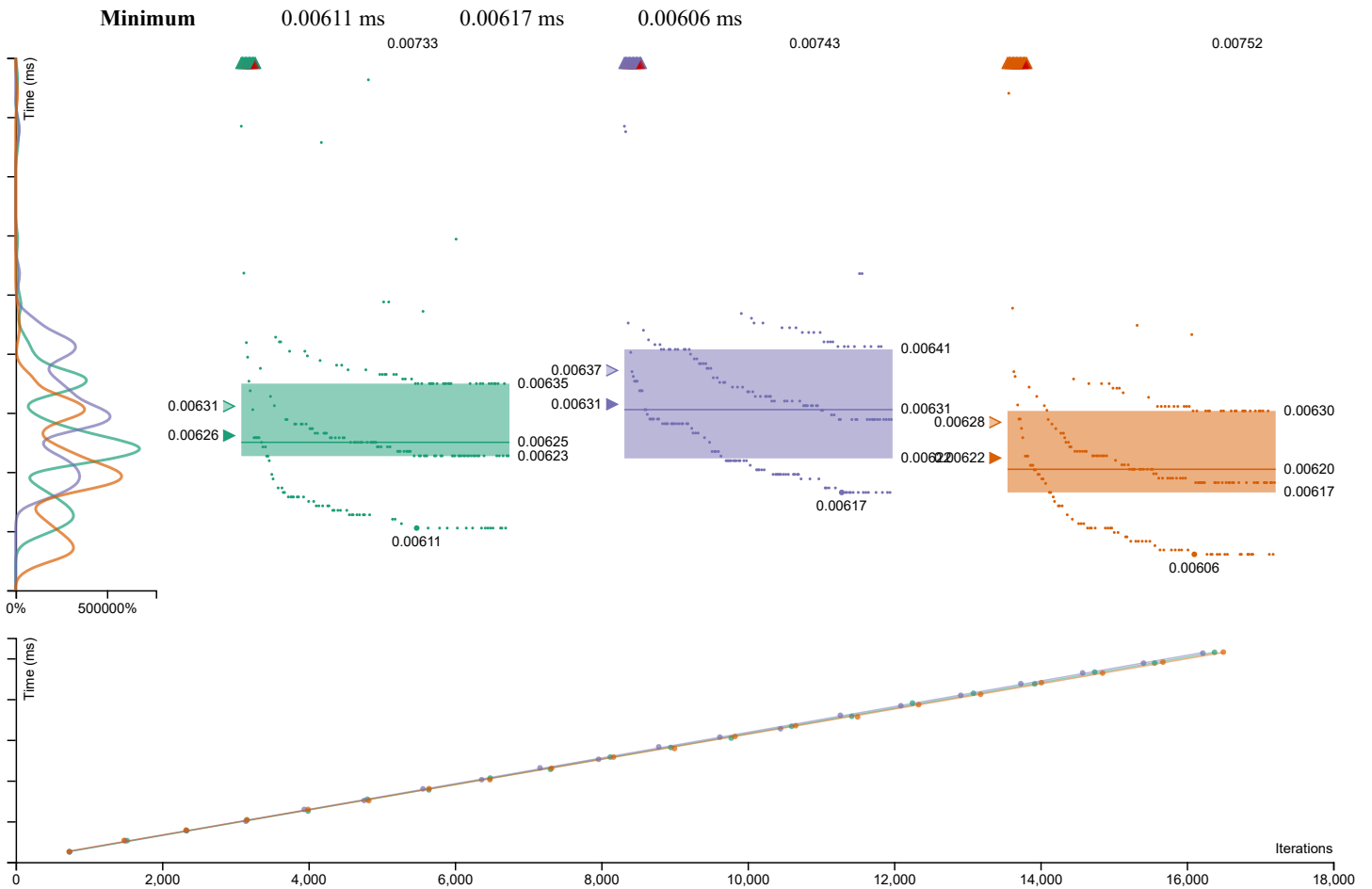
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.00626 ms 0.00631 ms 0.00622 ms

(Windsorized) Deviation 0.0000751 ms 0.0000742 ms 0.0000744 ms

R<sup>2</sup> Slope / Correlation 0.00625 ms / 1.000 0.00630 ms / 1.000 0.00618 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

ExpressionCreate

v4.3.1

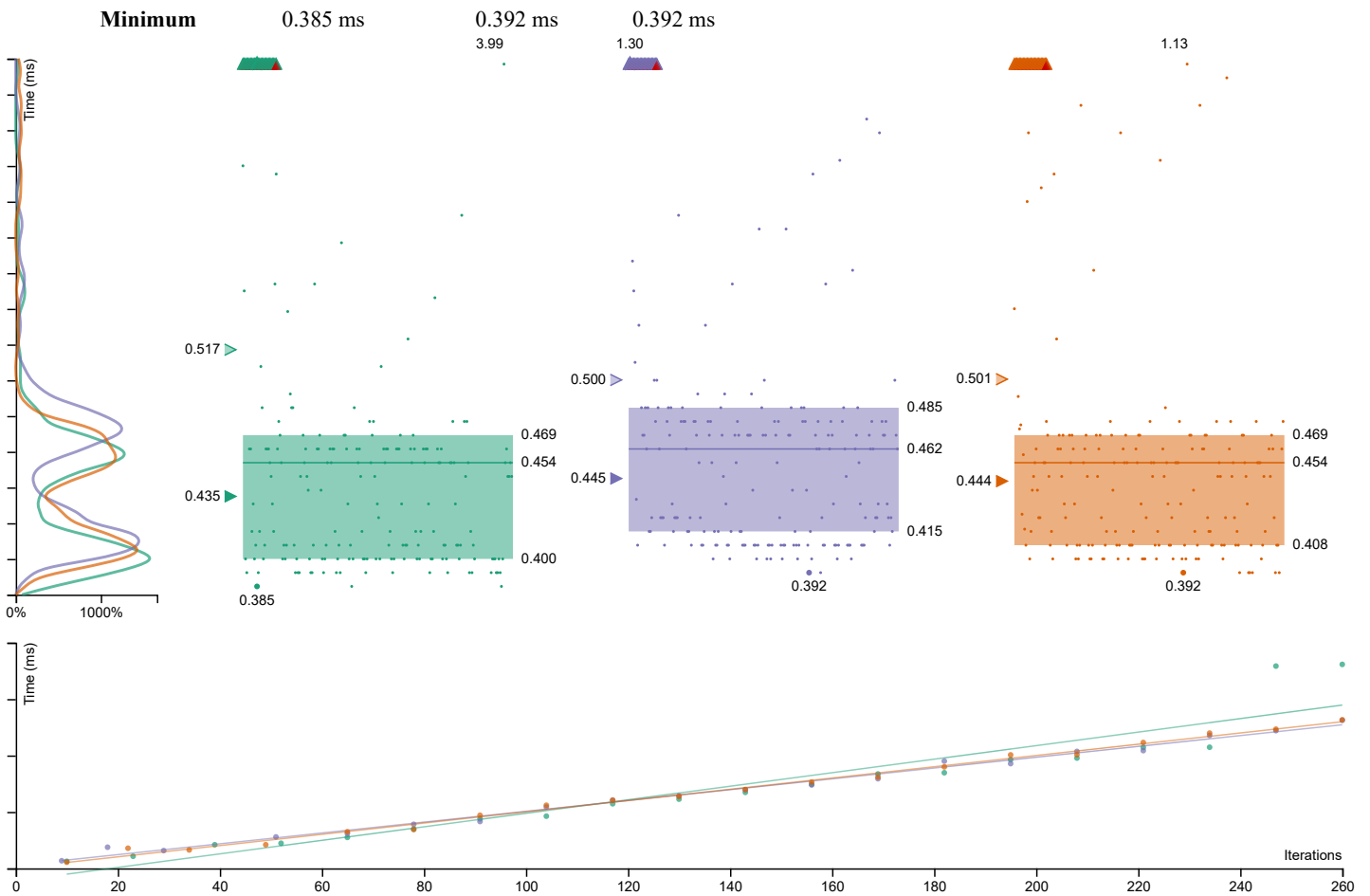
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.435 ms 0.445 ms 0.444 ms

(Windsorized) Deviation 0.0337 ms 0.0339 ms 0.0280 ms

R<sup>2</sup> Slope / Correlation 0.599 ms / 0.946 ⚠ 0.480 ms / 0.996 0.499 ms / 0.997



# TITLE

## MapLibre GL JS Benchmarks – Finished

### ExpressionEvaluate

v4.3.1

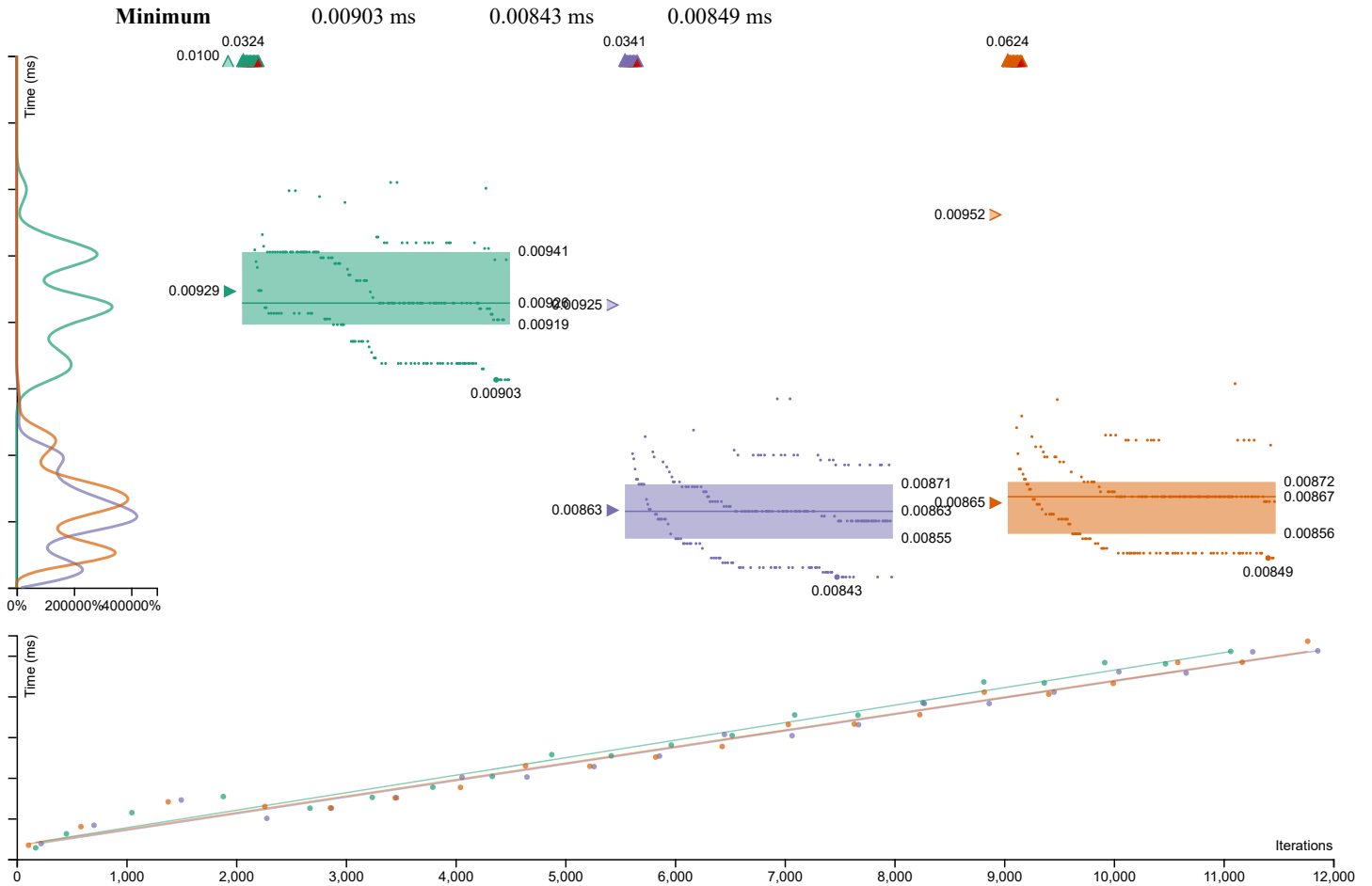
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.00929 ms 0.00863 ms 0.00865 ms

(Windsorized) Deviation 0.000107 ms 0.0000980 ms 0.0000858 ms

R<sup>2</sup> Slope / Correlation 0.00861 ms / 0.992 0.00813 ms / 0.991 0.00811 ms / 0.991



# TITLE

## MapLibre GL JS Benchmarks – Finished

WorkerTransfer

v4.3.1

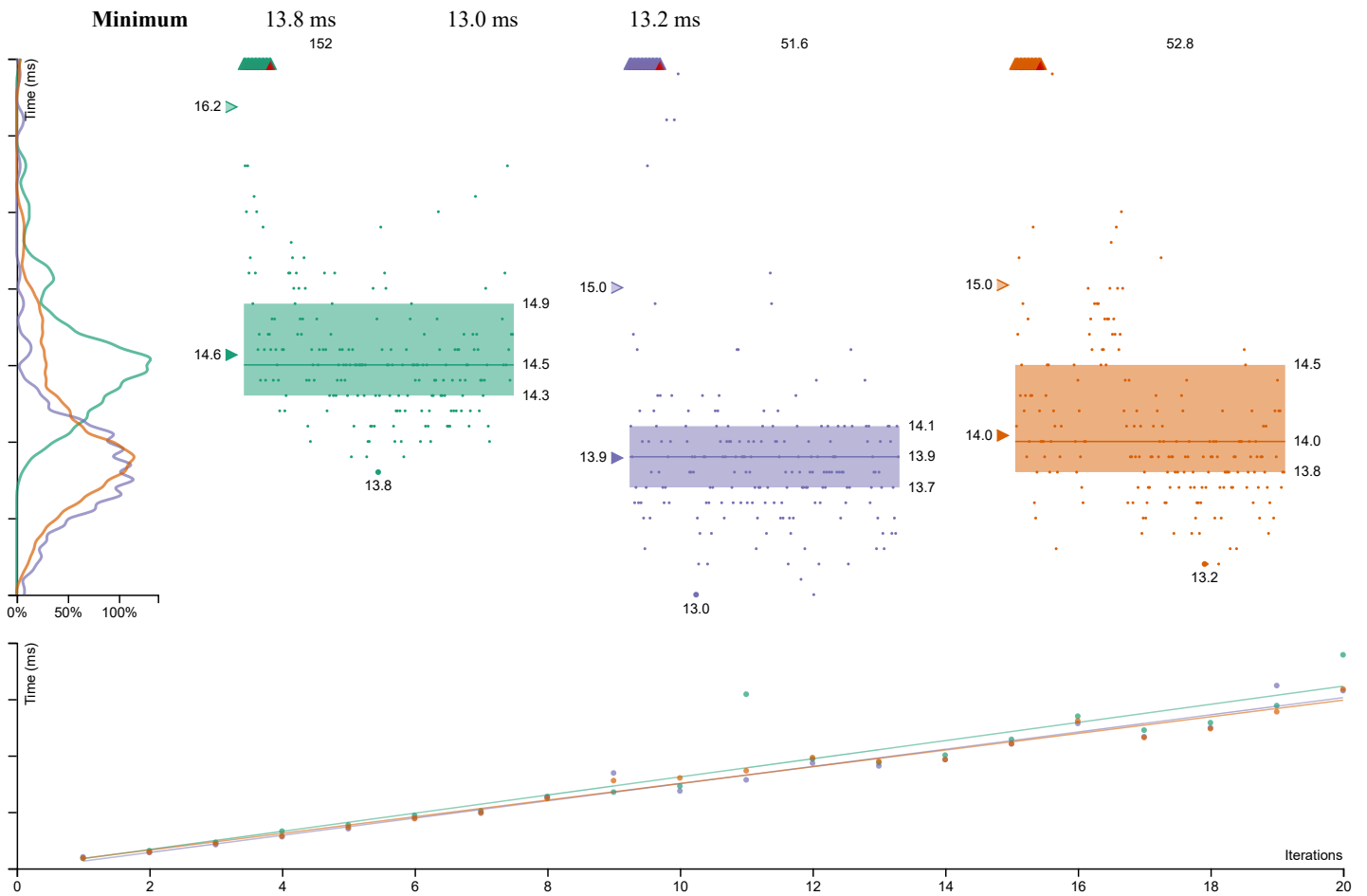
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 14.6 ms 13.9 ms 14.0 ms

(Windsorized) Deviation 0.304 ms 0.262 ms 0.385 ms

R<sup>2</sup> Slope / Correlation 16.1 ms / 0.936 ⚠ 15.3 ms / 0.984 ⚠ 14.8 ms / 0.989 ⚠



# TITLE

## MapLibre GL JS Benchmarks – Finished

PaintStates

v4.3.1

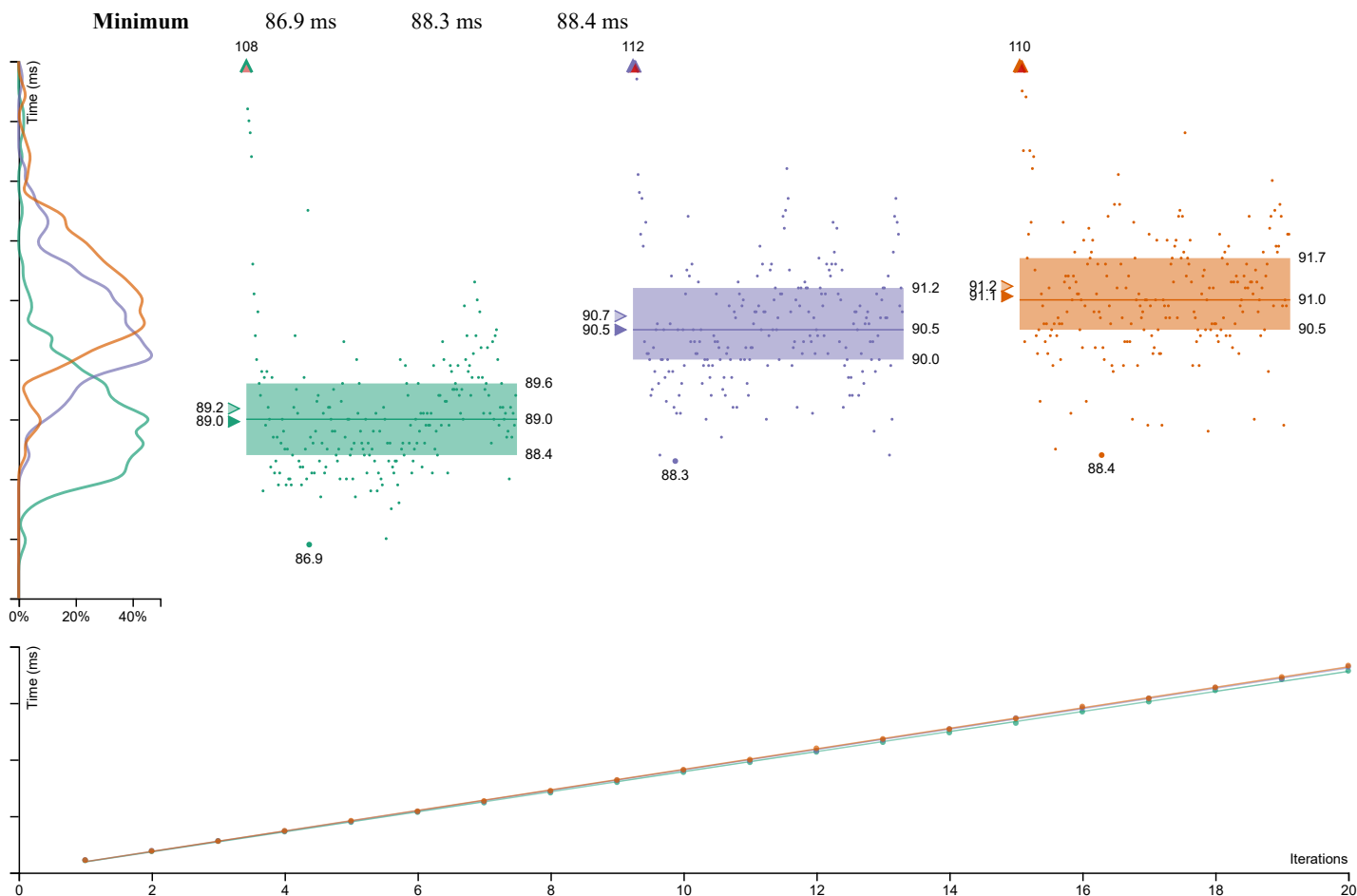
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 89.0 ms 90.5 ms 91.1 ms

(Windsorized) Deviation 0.542 ms 0.579 ms 0.576 ms

R<sup>2</sup> Slope / Correlation 88.7 ms / 1.000 90.2 ms / 1.000 90.7 ms / 1.000



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## MapLibre GL JS Benchmarks – Finished

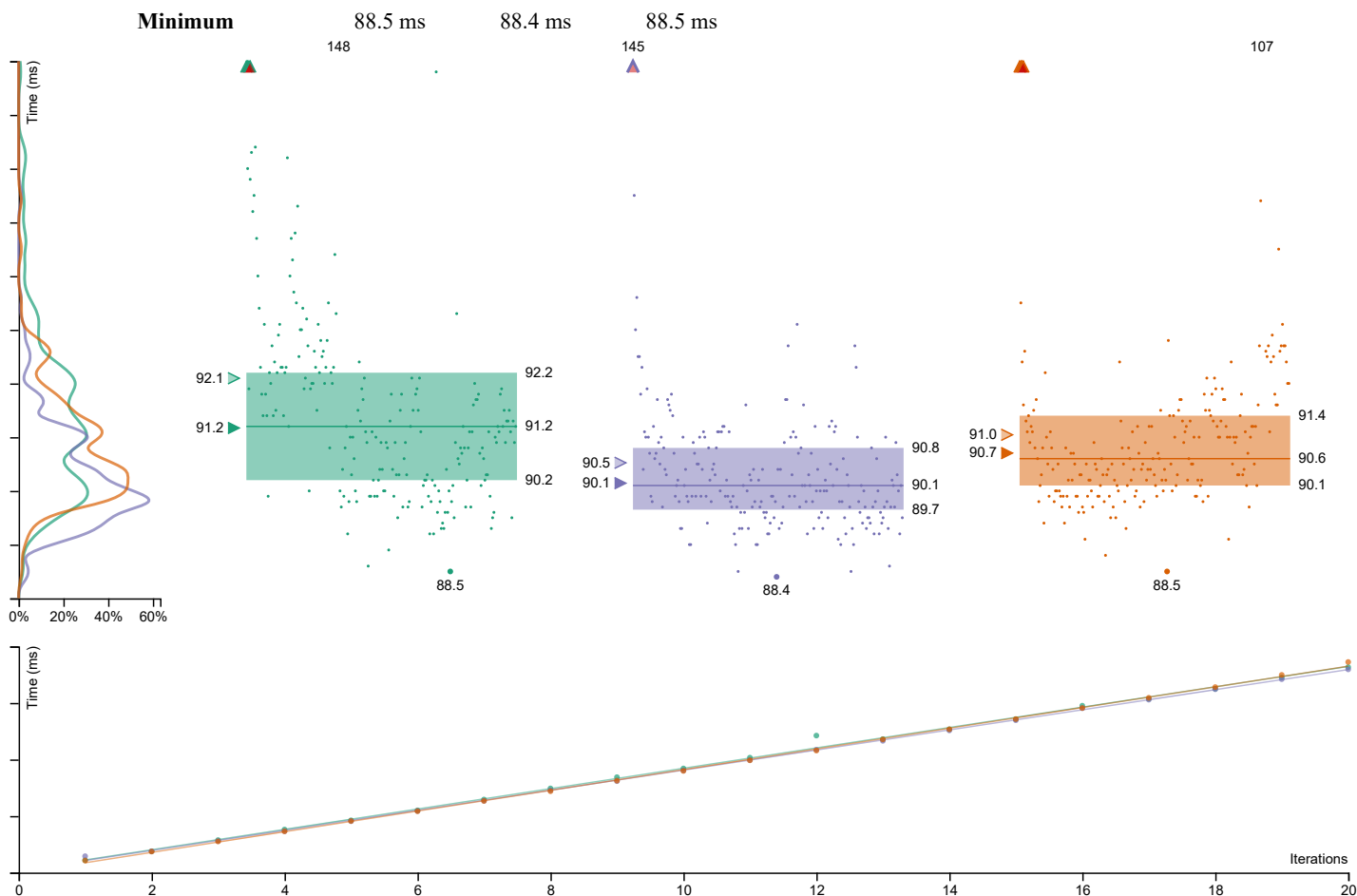
PropertyLevelRemove

v4.3.1

main

symbol-text-line-break a8c630e

(20% trimmed) Mean	91.2 ms	90.1 ms	90.7 ms
(Windsorized) Deviation	0.933 ms	0.577 ms	0.621 ms
R <sup>2</sup> Slope / Correlation	90.1 ms / 0.999	88.9 ms / 1.000	91.5 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

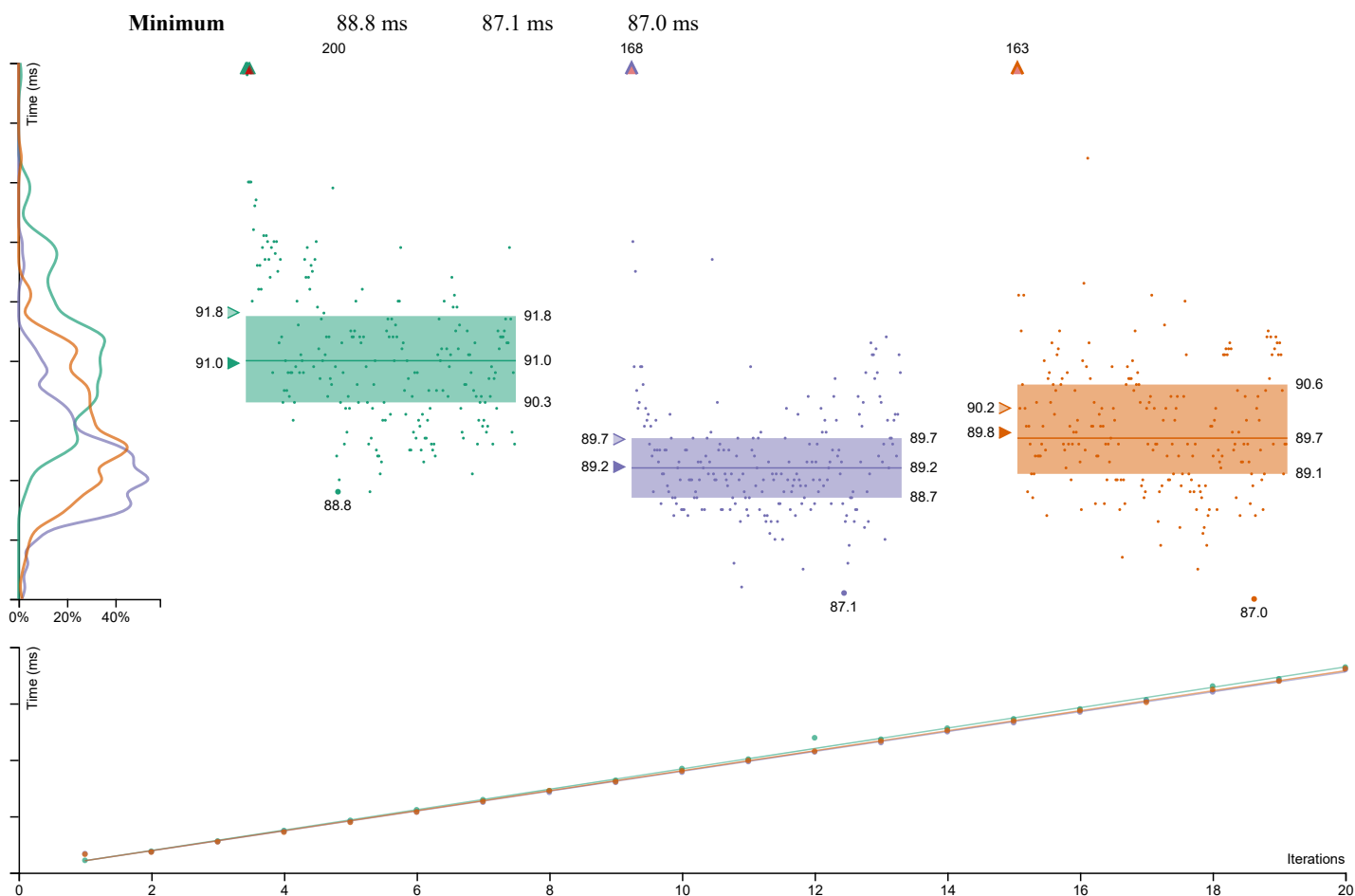
### FeatureLevelRemove

v4.3.1

main

symbol-text-line-break a8c630e

(20% trimmed) Mean	91.0 ms	89.2 ms	89.8 ms
(Windsorized) Deviation	0.785 ms	0.530 ms	0.666 ms
R <sup>2</sup> Slope / Correlation	90.4 ms / 0.999	88.0 ms / 0.999	88.6 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

### SourceLevelRemove

v4.3.1

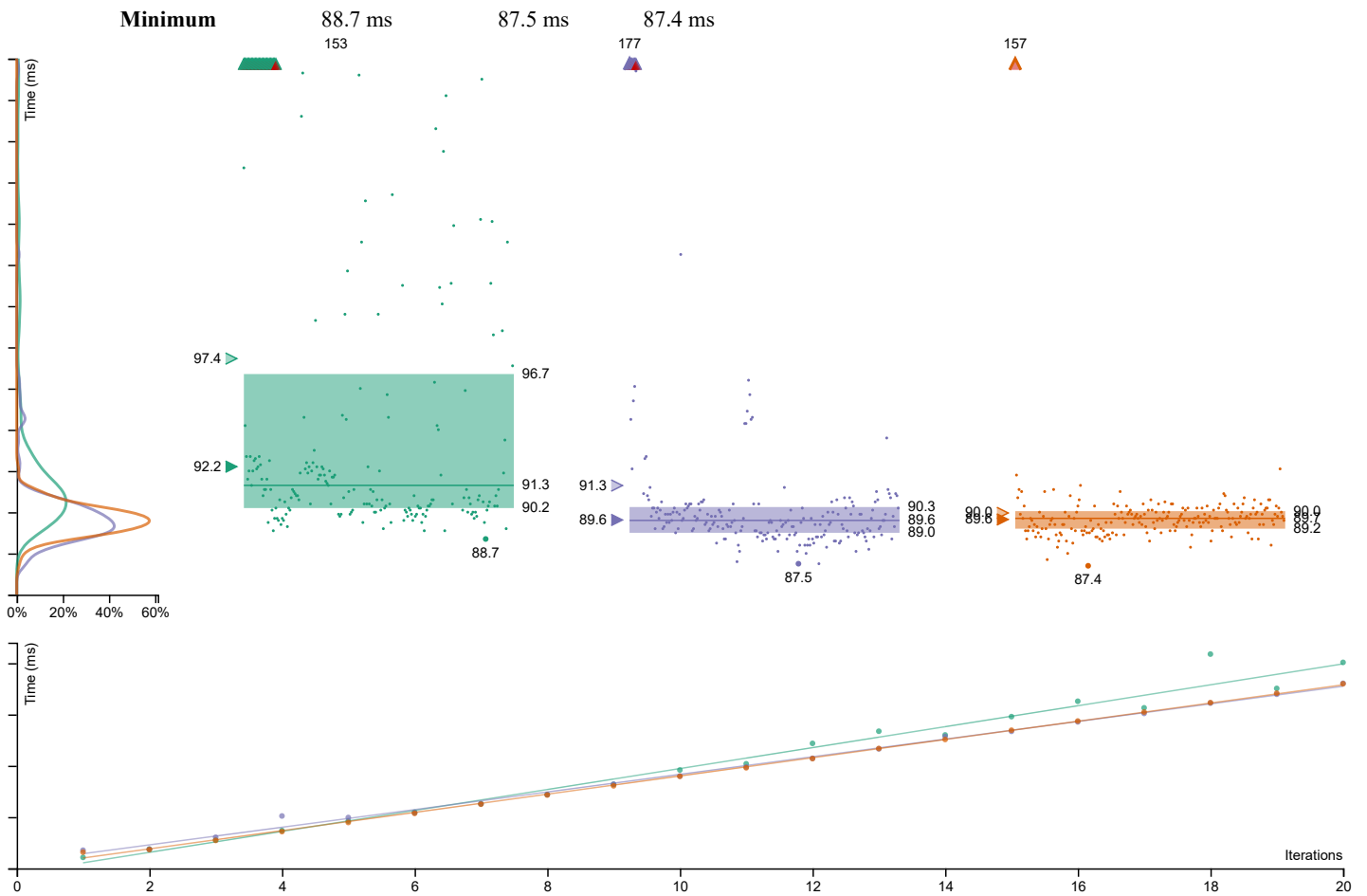
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 92.2 ms 89.6 ms 89.6 ms

(Windsorized) Deviation 4.39 ms 0.616 ms 0.420 ms

R<sup>2</sup> Slope / Correlation 102 ms / 0.989 ⚠ 85.9 ms / 0.998 88.8 ms / 1.000





# TITLE

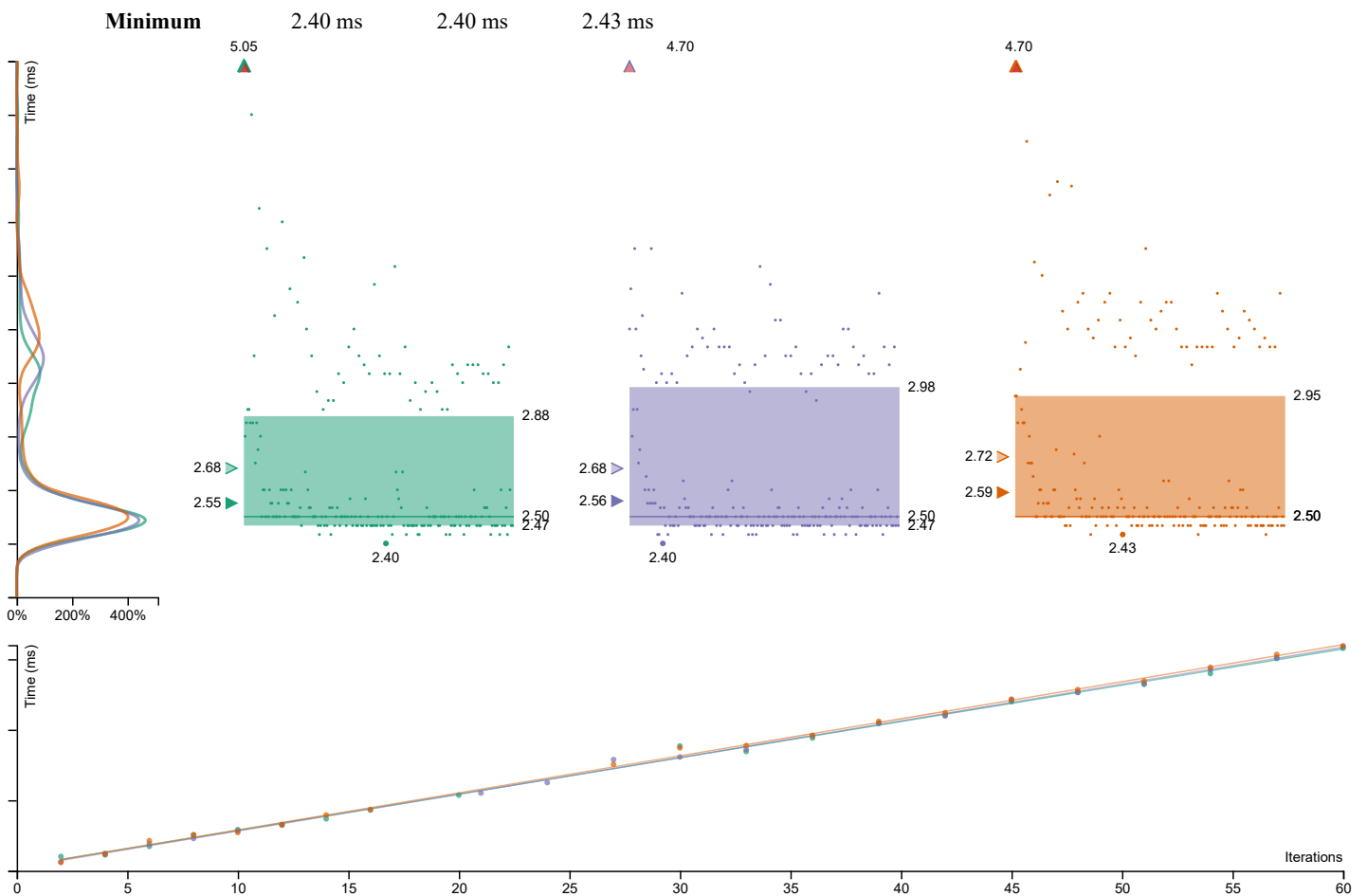
## MapLibre GL JS Benchmarks – Finished

LayerBackground    v4.3.1    main    symbol-text-line-break a8c630e

(20% trimmed) Mean    2.55 ms    2.56 ms    2.59 ms

(Windsorized) Deviation    0.204 ms    0.237 ms    0.271 ms

R<sup>2</sup> Slope / Correlation    2.57 ms / 0.999    2.60 ms / 0.999    2.63 ms / 0.999



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerCircle

v4.3.1

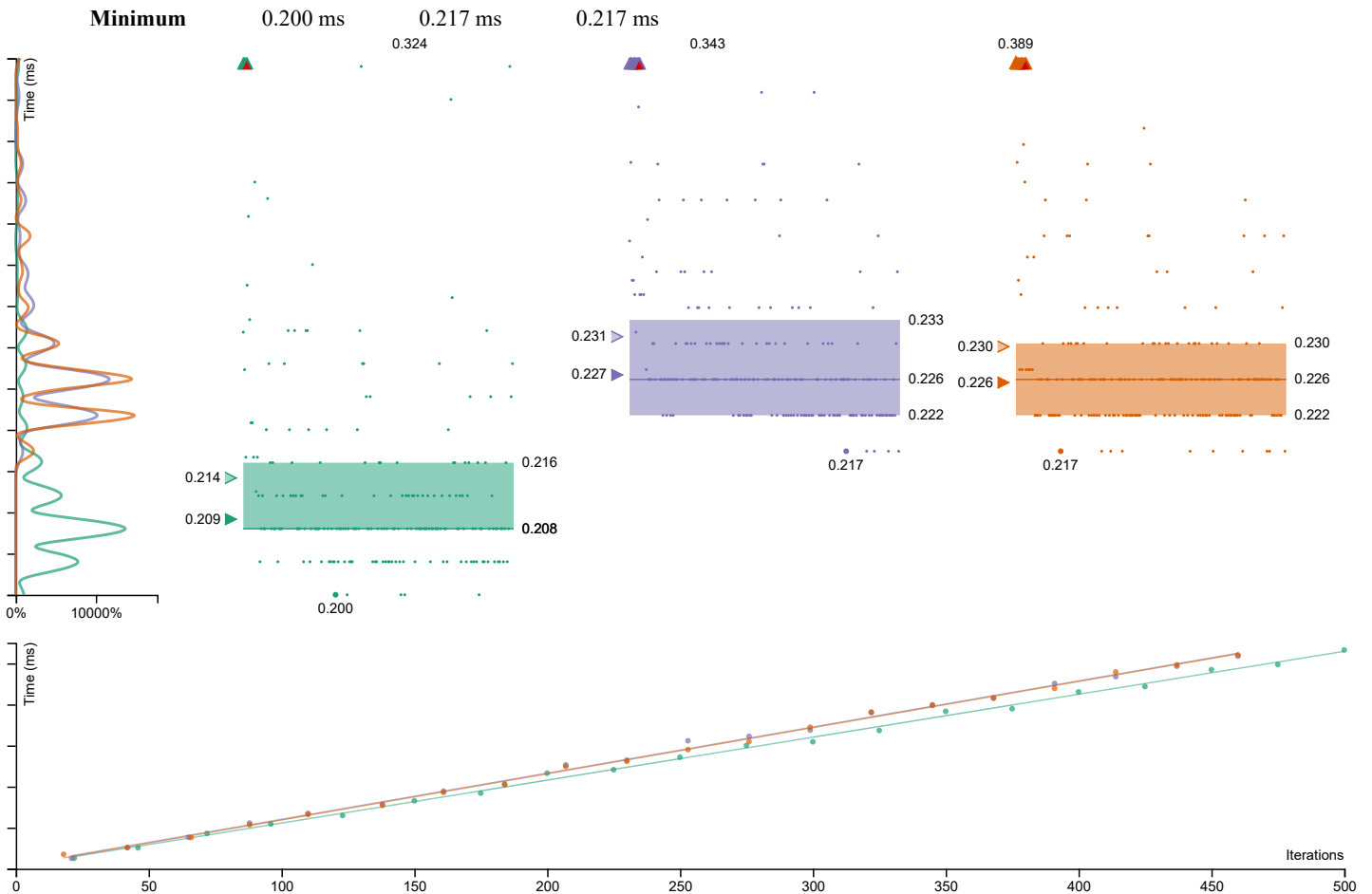
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.209 ms 0.227 ms 0.226 ms

(Windsorized) Deviation 0.00468 ms 0.00502 ms 0.00356 ms

R<sup>2</sup> Slope / Correlation 0.209 ms / 0.999 0.225 ms / 0.999 0.225 ms / 0.999



# TITLE

## MapLibre GL JS Benchmarks – Finished

**LayerFill**

v4.3.1

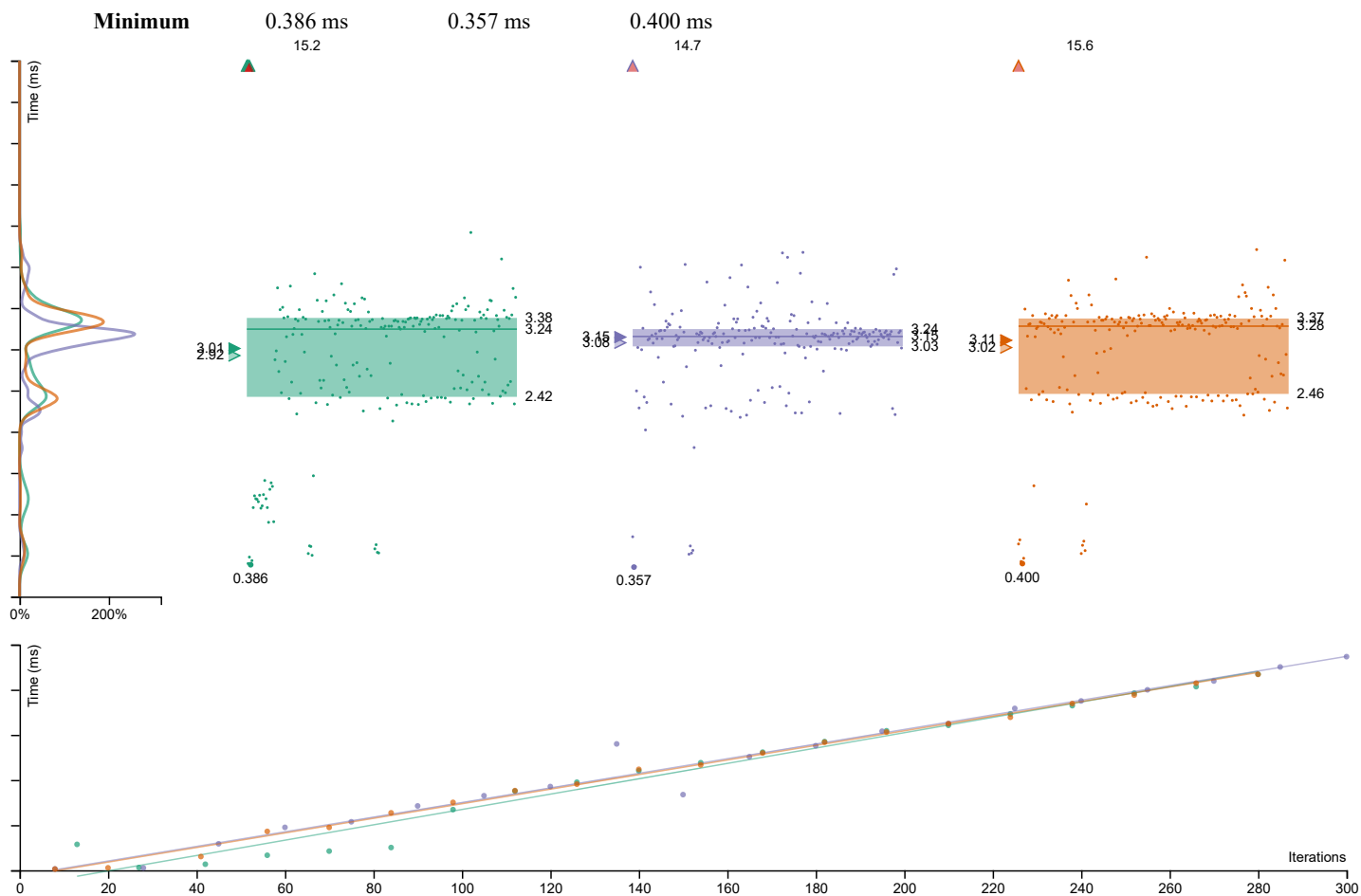
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 3.01 ms 3.15 ms 3.11 ms

(Windsorized) Deviation 0.448 ms 0.105 ms 0.413 ms

R<sup>2</sup> Slope / Correlation 3.40 ms / 0.983 ⚠ 3.24 ms / 0.987 ⚠ 3.23 ms / 0.998



# TITLE

## MapLibre GL JS Benchmarks – Finished

### LayerFillExtrusion

v4.3.1

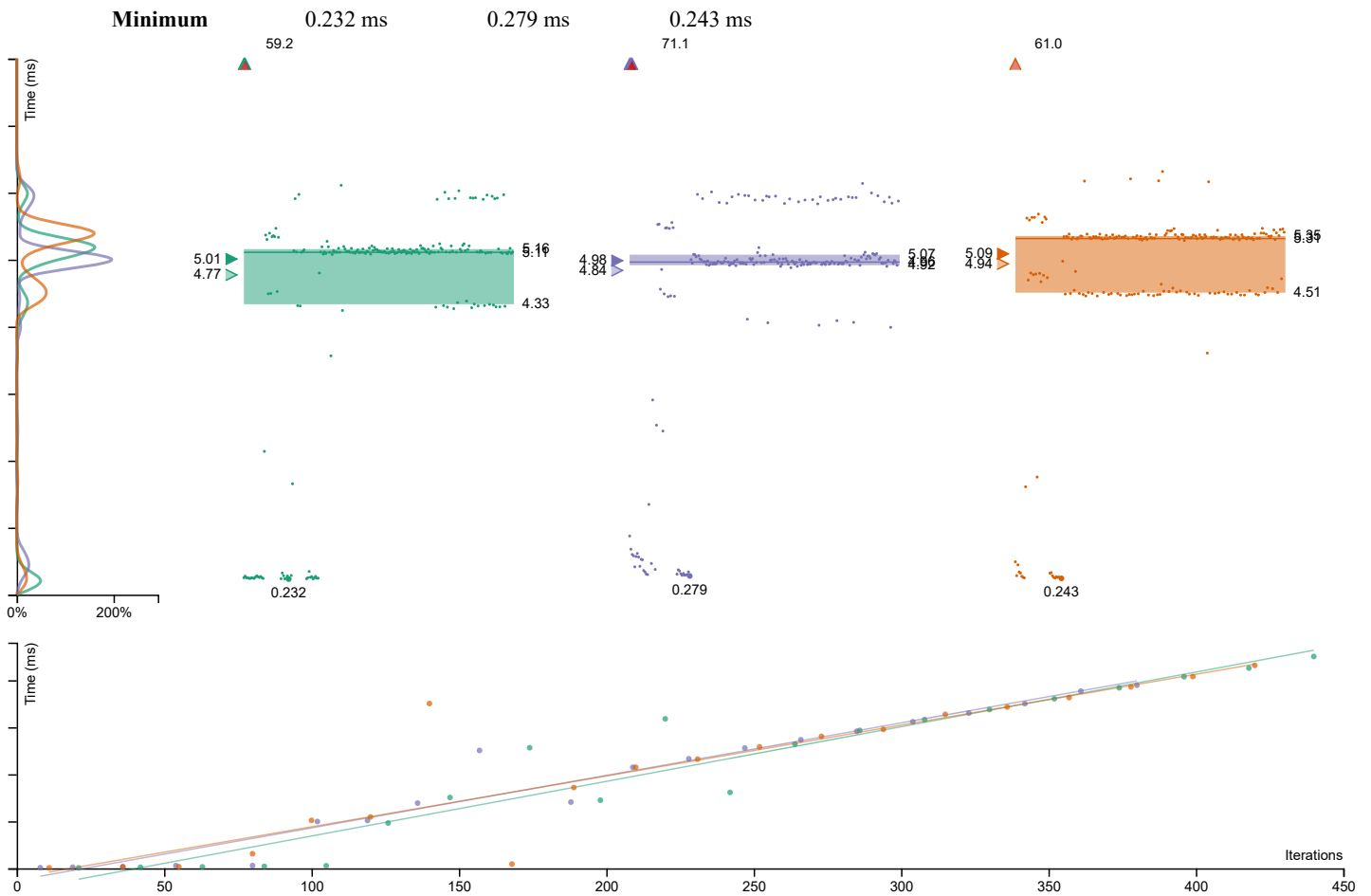
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 5.01 ms 4.98 ms 5.09 ms

(Windsorized) Deviation 0.372 ms 0.301 ms 0.399 ms

R<sup>2</sup> Slope / Correlation 5.81 ms / 0.960 ⚠ 5.58 ms / 0.975 ⚠ 5.41 ms / 0.910 ⚠



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerHeatmap

v4.3.1

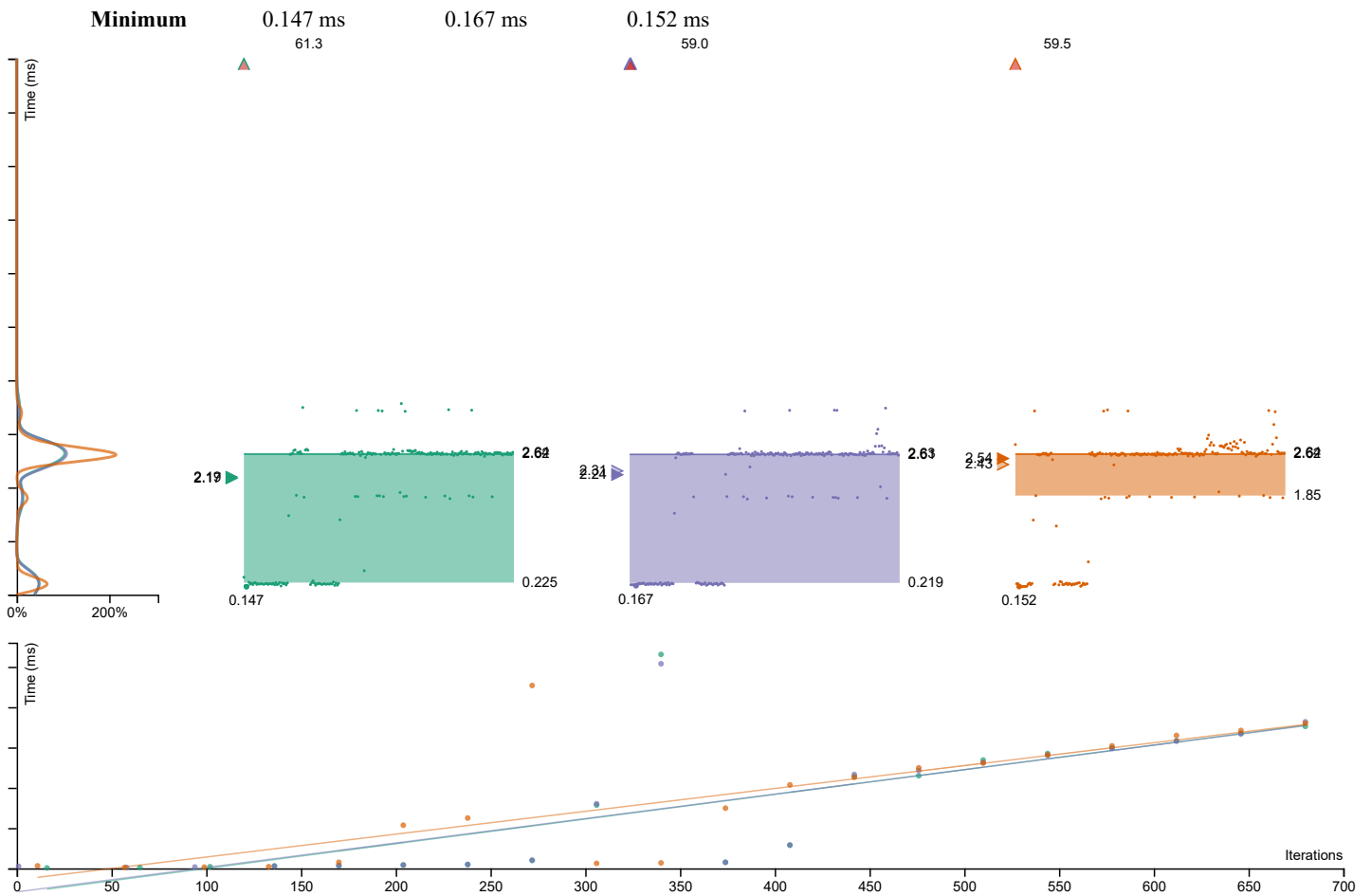
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 2.17 ms 2.24 ms 2.54 ms

(Windsorized) Deviation 1.07 ms 1.06 ms 0.363 ms

R<sup>2</sup> Slope / Correlation 3.06 ms / 0.763 🐛 3.03 ms / 0.775 🐛 2.84 ms / 0.788 🐛



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerHillshade

v4.3.1

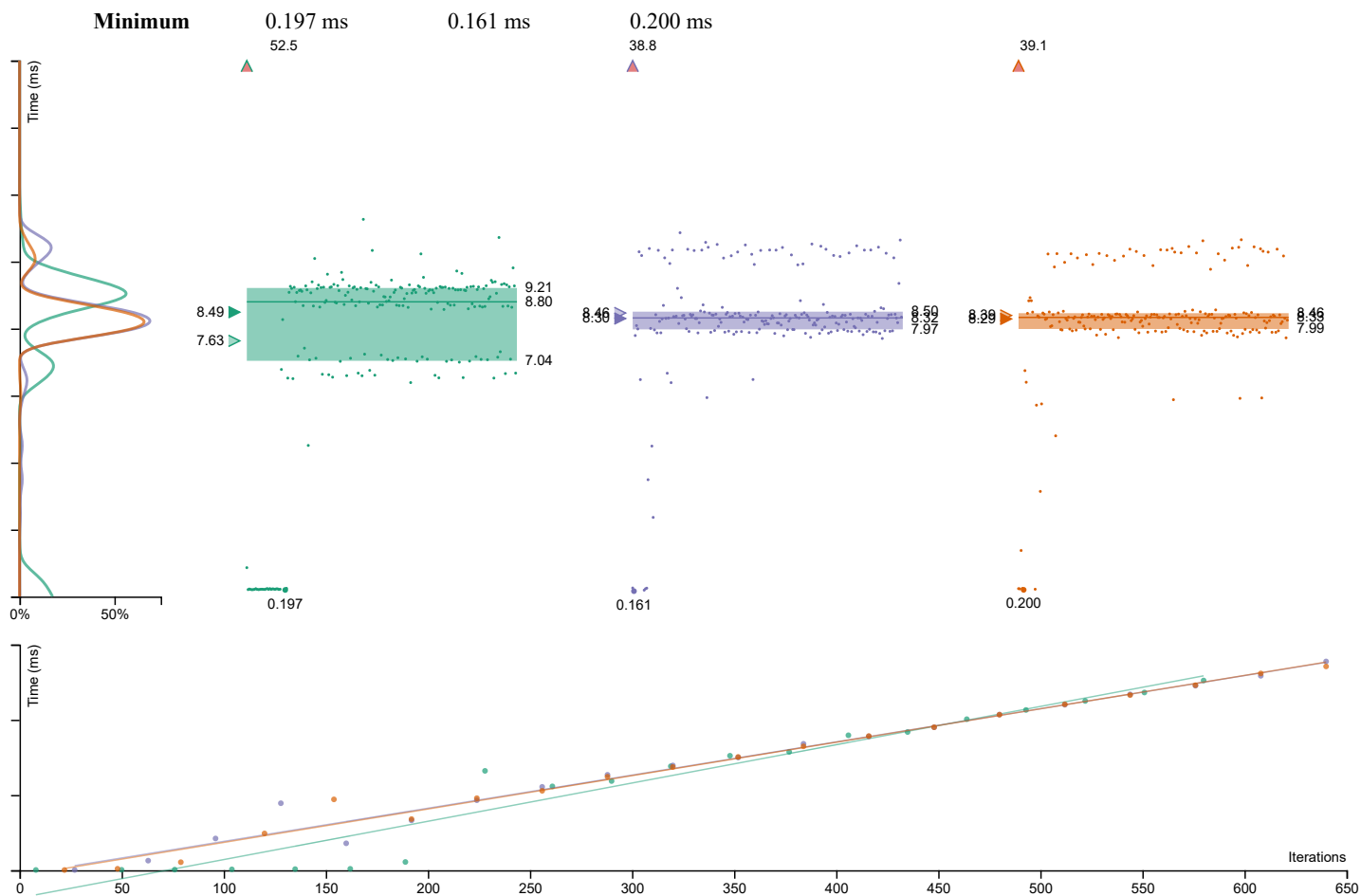
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 8.49 ms 8.30 ms 8.29 ms

(Windsorized) Deviation 1.09 ms 0.453 ms 0.226 ms

R<sup>2</sup> Slope / Correlation 10.2 ms / 0.968 ⚠ 8.82 ms / 0.990 ⚠ 8.88 ms / 0.994



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerLine

v4.3.1

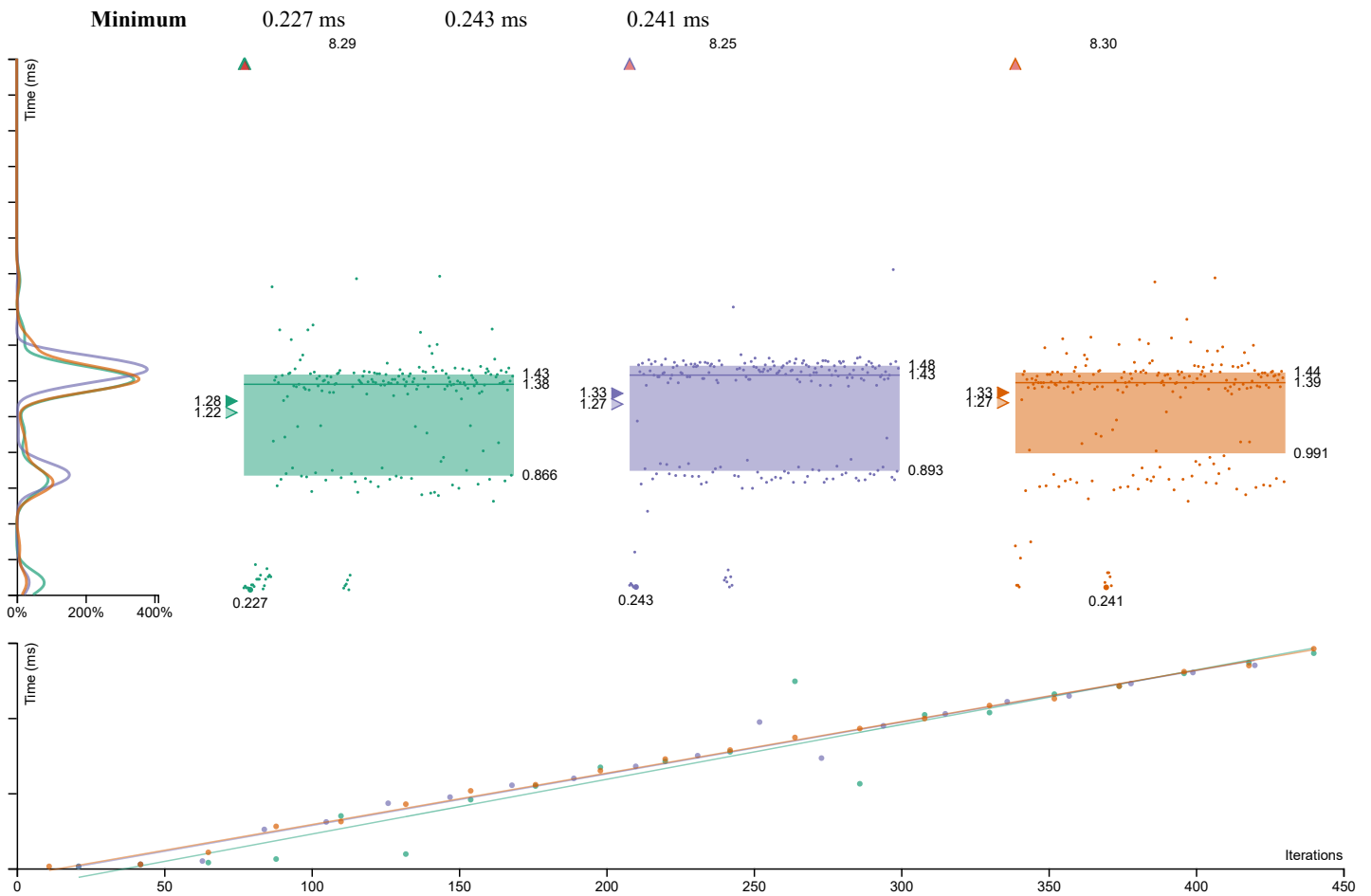
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 1.28 ms 1.33 ms 1.33 ms

(Windsorized) Deviation 0.254 ms 0.270 ms 0.236 ms

R<sup>2</sup> Slope / Correlation 1.45 ms / 0.956 ⚠ 1.37 ms / 0.990 ⚠ 1.37 ms / 0.998



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerRaster

v4.3.1

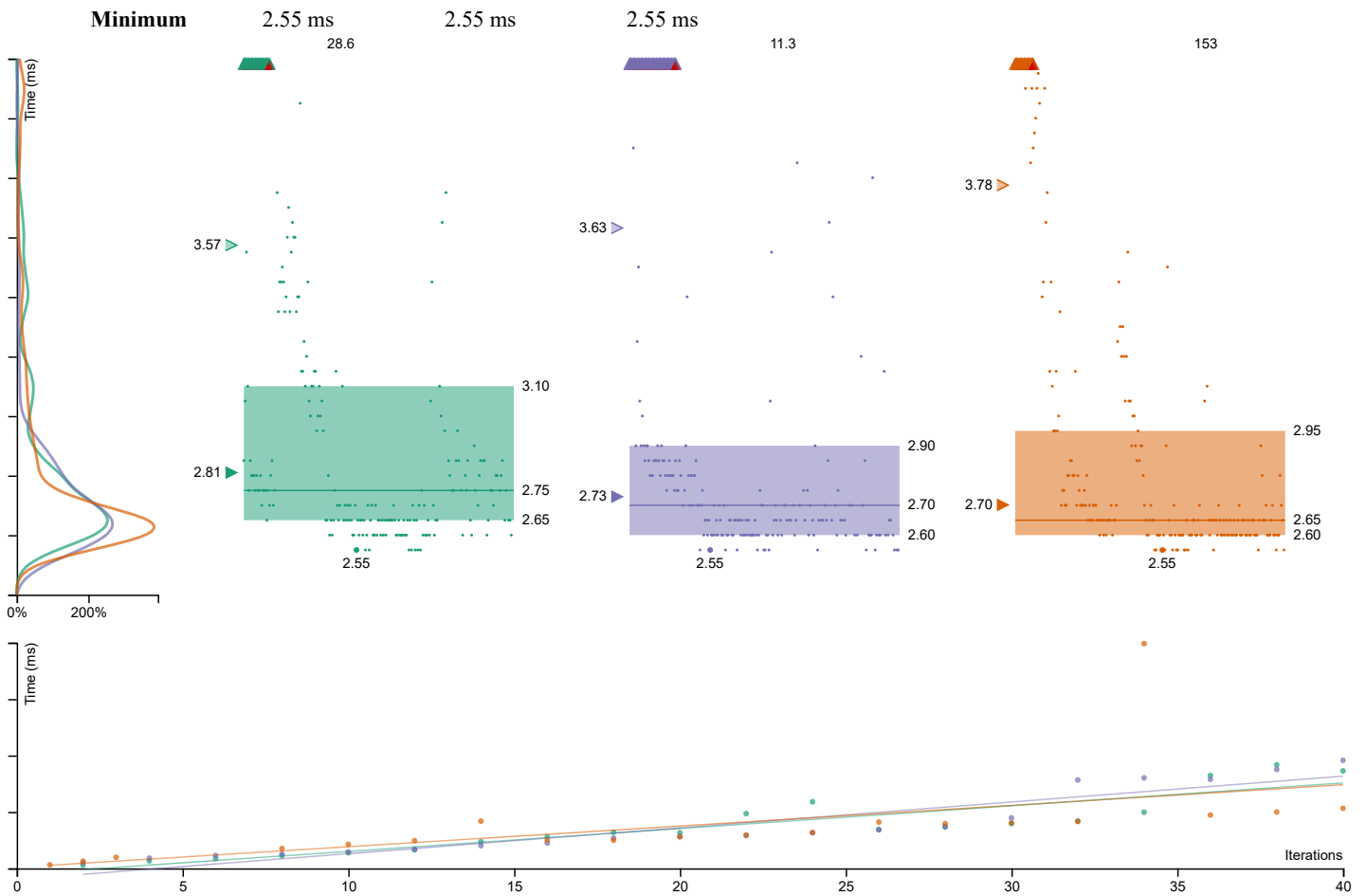
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 2.81 ms 2.73 ms 2.70 ms

(Windsorized) Deviation 0.277 ms 0.343 ms 0.216 ms

R<sup>2</sup> Slope / Correlation 4.04 ms / 0.910 ⚠ 4.58 ms / 0.931 ⚠ 3.66 ms / 0.558 🚩





# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerSymbol

v4.3.1

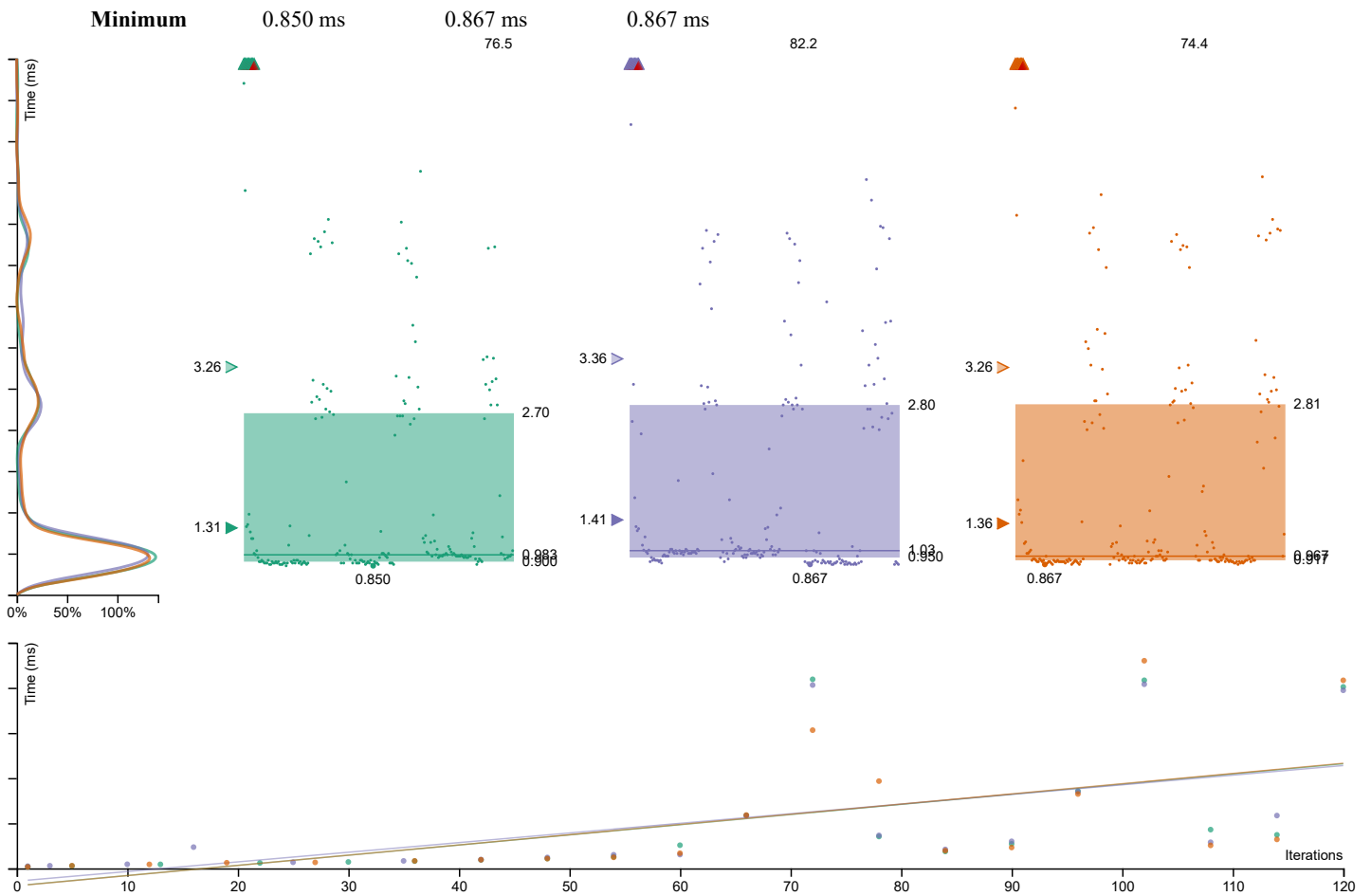
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 1.31 ms 1.41 ms 1.36 ms

(Windsorized) Deviation 0.881 ms 0.898 ms 0.894 ms

R<sup>2</sup> Slope / Correlation 4.50 ms / 0.592 🐛 4.27 ms / 0.594 🐛 4.52 ms / 0.607 🐛



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerSymbolWithIcons

v4.3.1

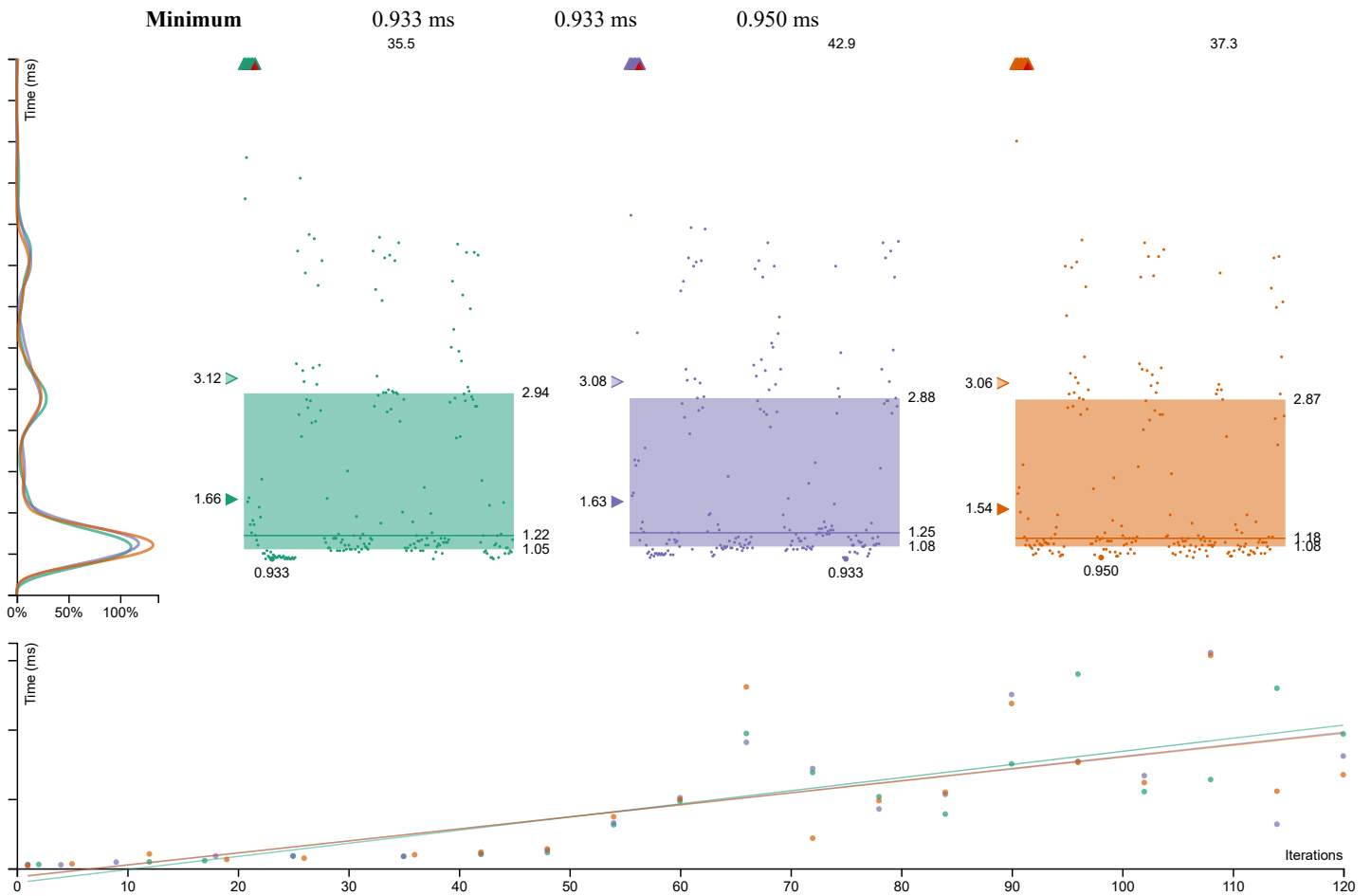
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 1.66 ms 1.63 ms 1.54 ms

(Windsorized) Deviation 0.912 ms 0.888 ms 0.849 ms

R<sup>2</sup> Slope / Correlation 3.78 ms / 0.829 🐛 3.48 ms / 0.756 🐛 3.45 ms / 0.719 🐛



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerTextWithVariableAnchor

v4.3.1

main

symbol-text-line-break a8c630e

(20% trimmed) Mean

18.6 ms

19.9 ms

19.8 ms

(Windsorized) Deviation

1.43 ms

1.17 ms

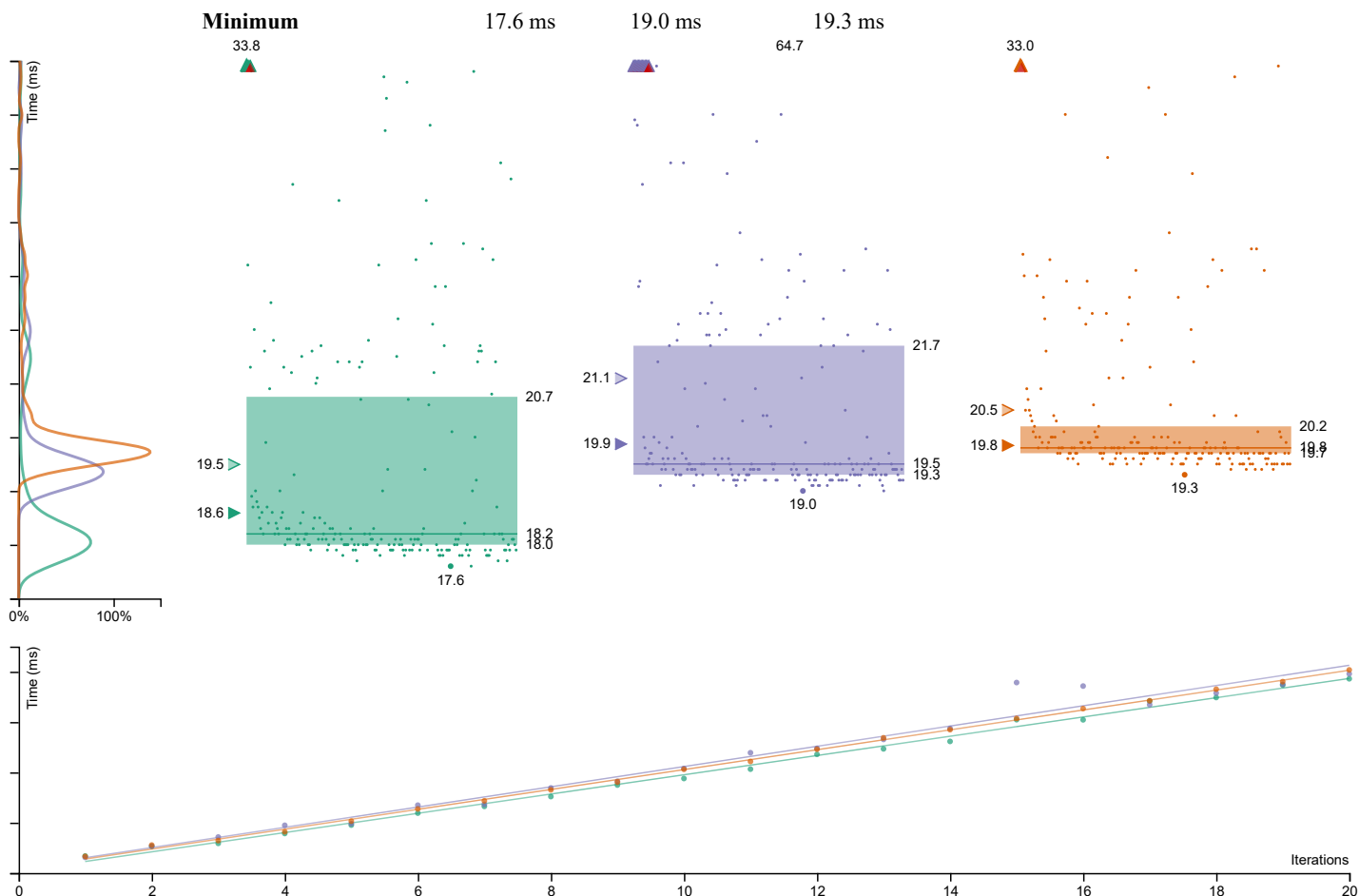
0.379 ms

R<sup>2</sup> Slope / Correlation

19.1 ms / 0.998

20.1 ms / 0.986

▲ 19.7 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

LayerSymbolWithSortKey

v4.3.1

main

symbol-text-line-break a8c630e

(20% trimmed) Mean

0.170 ms

0.166 ms

0.167 ms

(Windsorized) Deviation

0.0271 ms

0.0173 ms

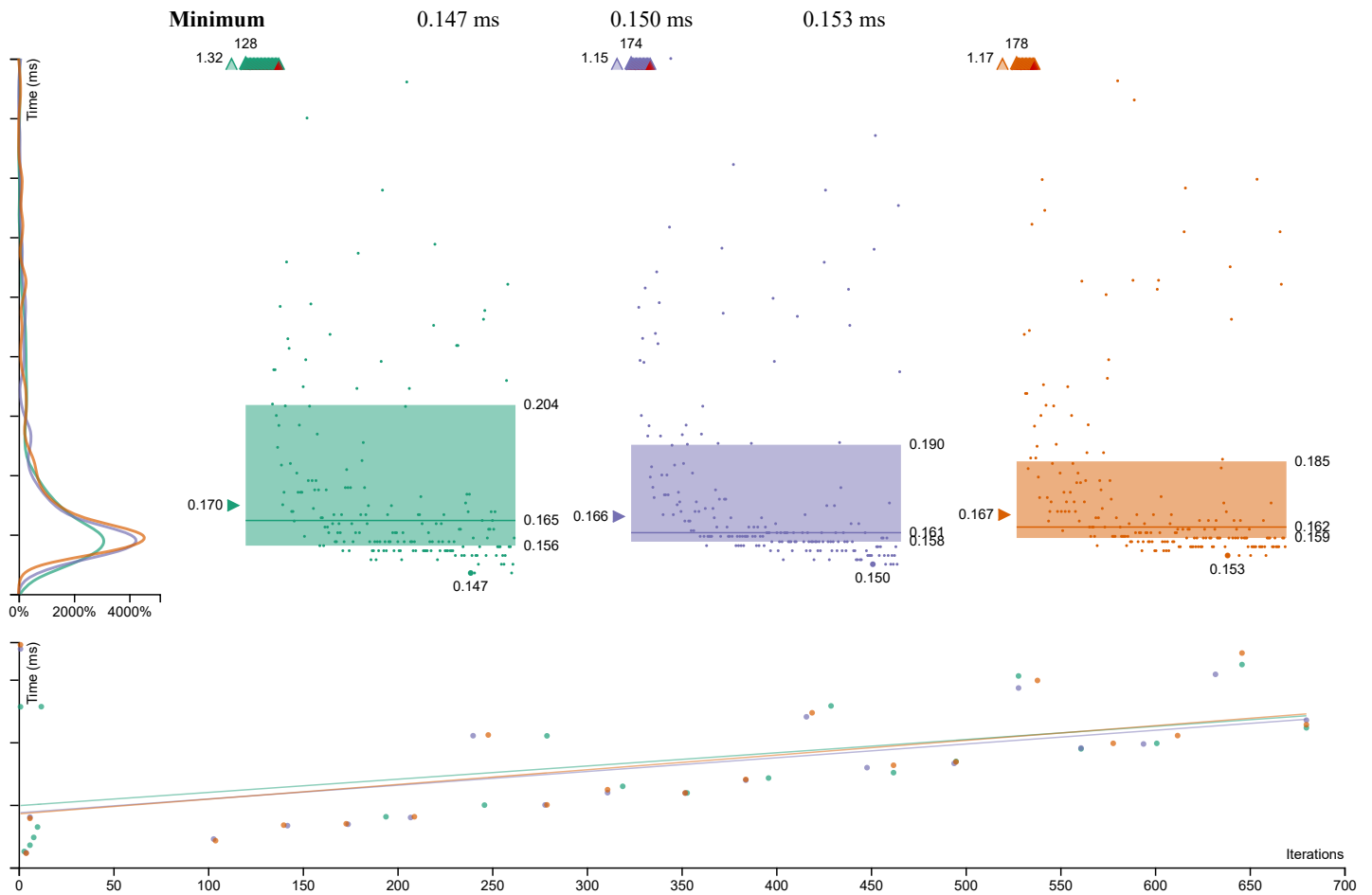
0.0166 ms

R<sup>2</sup> Slope / Correlation

0.106 ms / 0.565

0.110 ms / 0.516

0.117 ms / 0.532



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## MapLibre GL JS Benchmarks – Finished

Load

v4.3.1

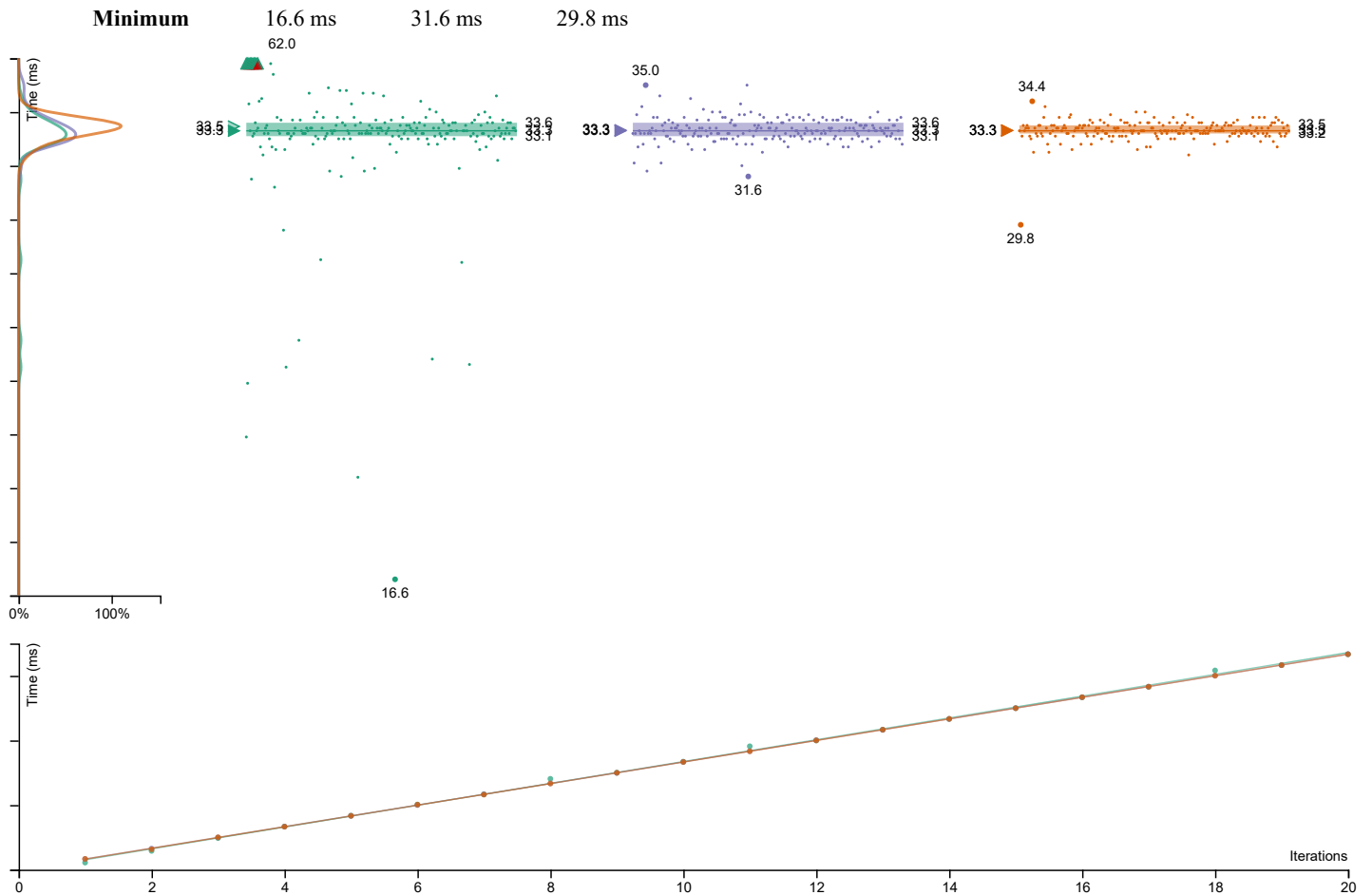
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 33.3 ms 33.3 ms 33.3 ms

(Windsorized) Deviation 0.262 ms 0.257 ms 0.154 ms

R<sup>2</sup> Slope / Correlation 33.8 ms / 0.999 33.4 ms / 1.000 33.4 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

SymbolLayout

v4.3.1

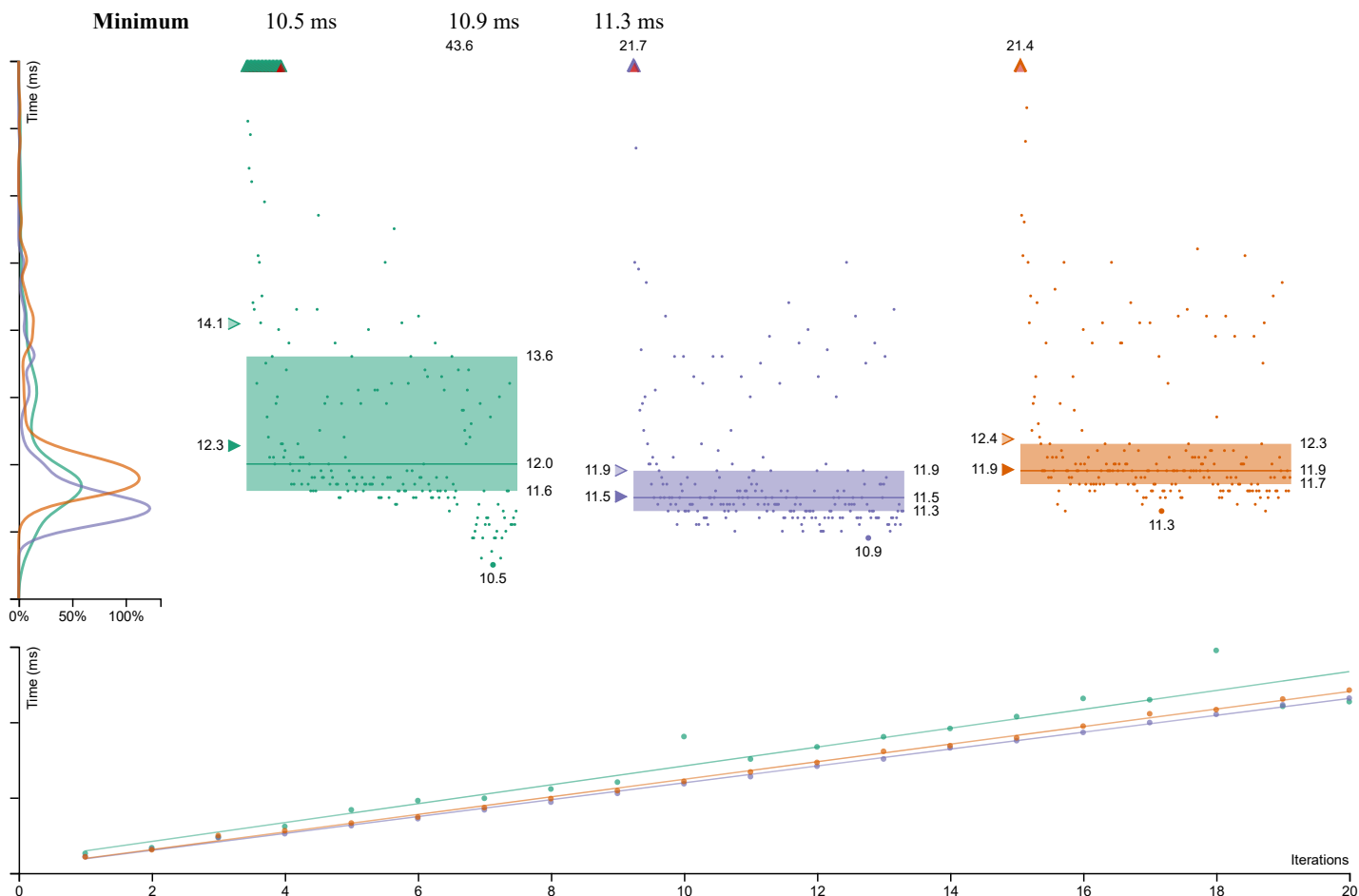
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 12.3 ms 11.5 ms 11.9 ms

(Windsorized) Deviation 1.11 ms 0.336 ms 0.435 ms

R<sup>2</sup> Slope / Correlation 12.5 ms / 0.965 ⚠ 11.2 ms / 0.999 11.6 ms / 0.999



# TITLE

## MapLibre GL JS Benchmarks – Finished

FilterCreate

v4.3.1

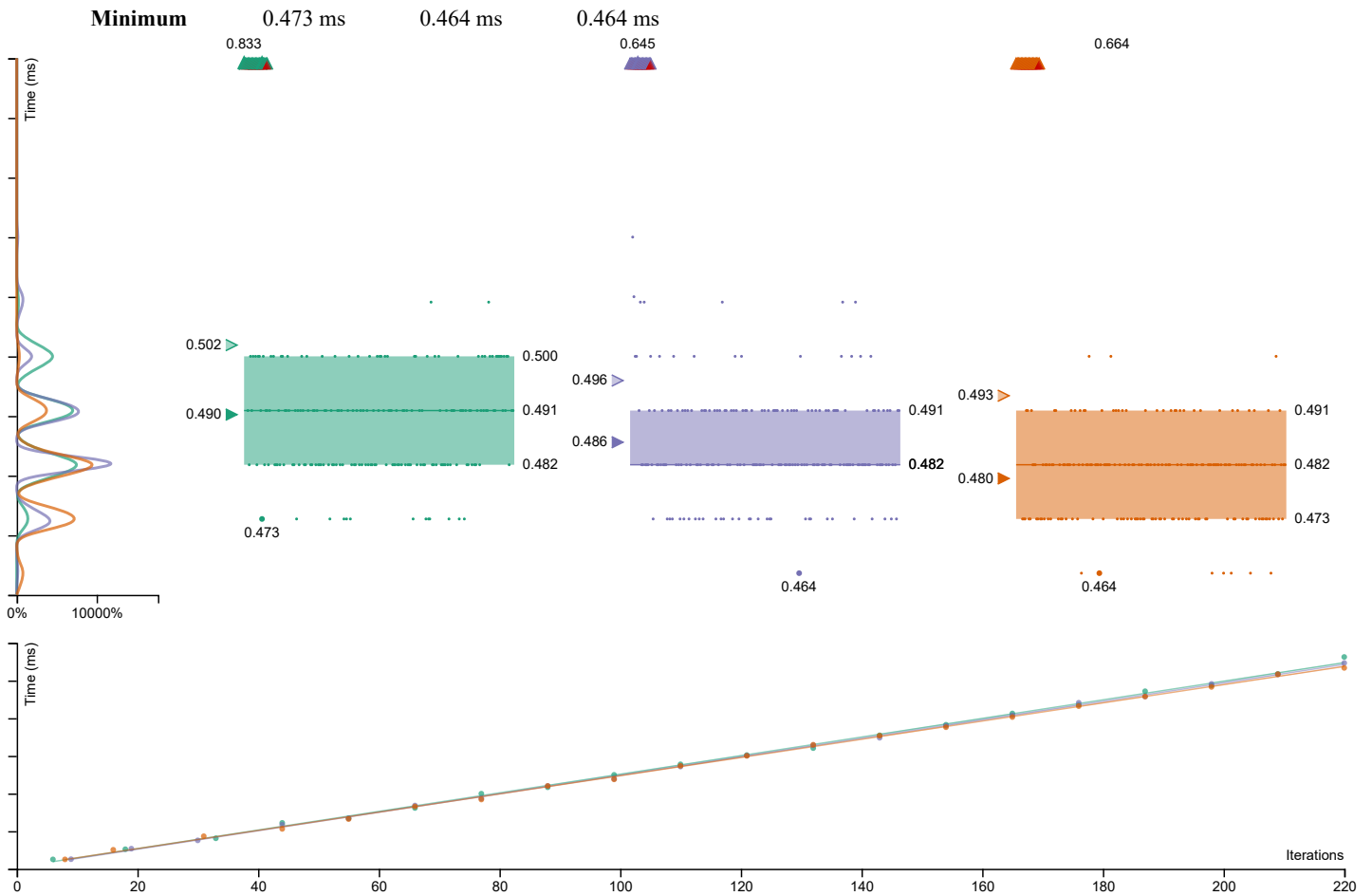
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.490 ms 0.486 ms 0.480 ms

(Windsorized) Deviation 0.00753 ms 0.00454 ms 0.00701 ms

R<sup>2</sup> Slope / Correlation 0.494 ms / 0.999 0.491 ms / 1.000 0.484 ms / 1.000



# TITLE

## MapLibre GL JS Benchmarks – Finished

### FilterEvaluate

v4.3.1

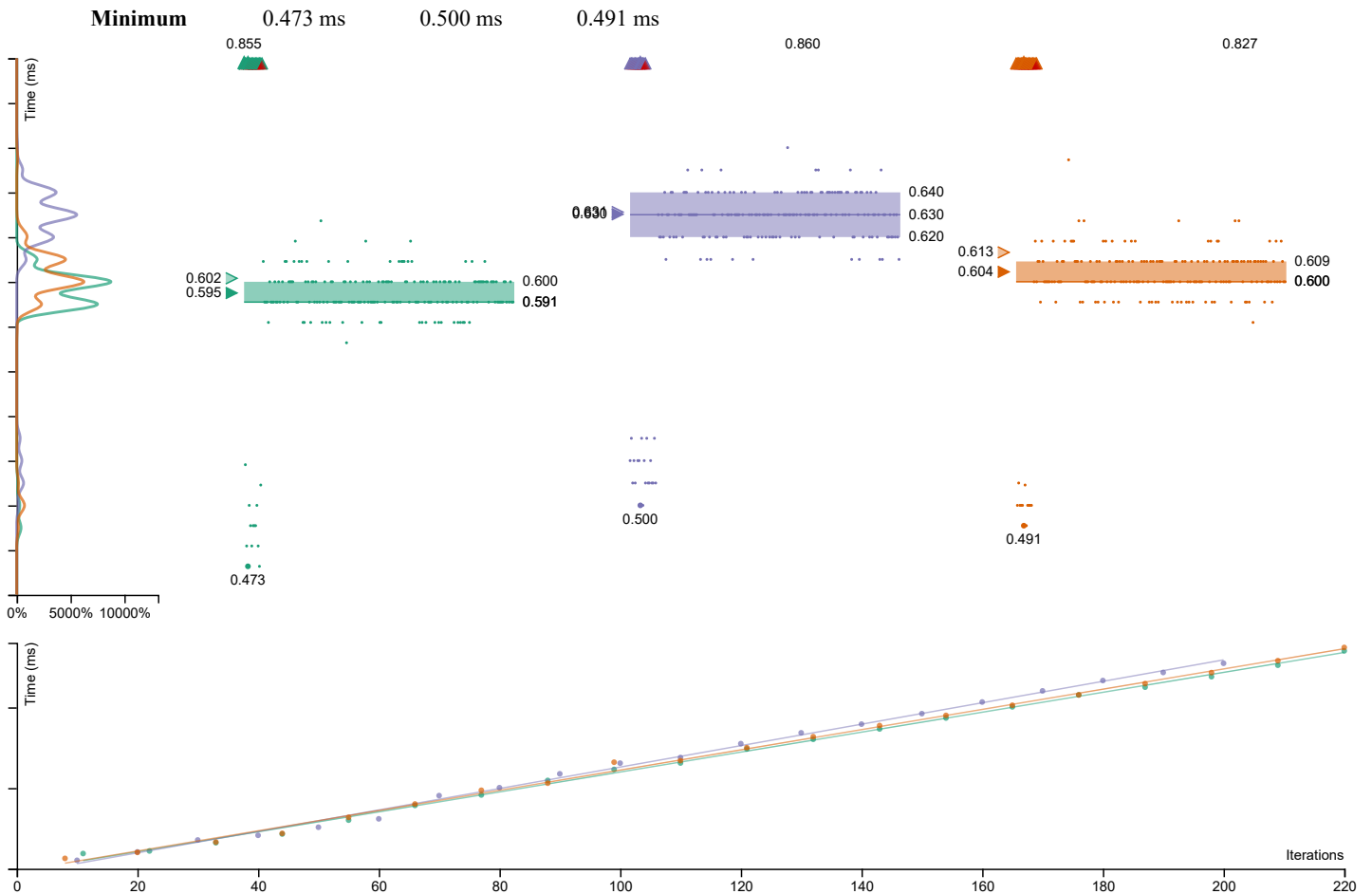
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 0.595 ms 0.630 ms 0.604 ms

(Windsorized) Deviation 0.00455 ms 0.00819 ms 0.00721 ms

R<sup>2</sup> Slope / Correlation 0.617 ms / 0.999 0.664 ms / 0.999 0.627 ms / 0.999





# TITLE

## MapLibre GL JS Benchmarks – Finished

### HillshadeLoad

v4.3.1

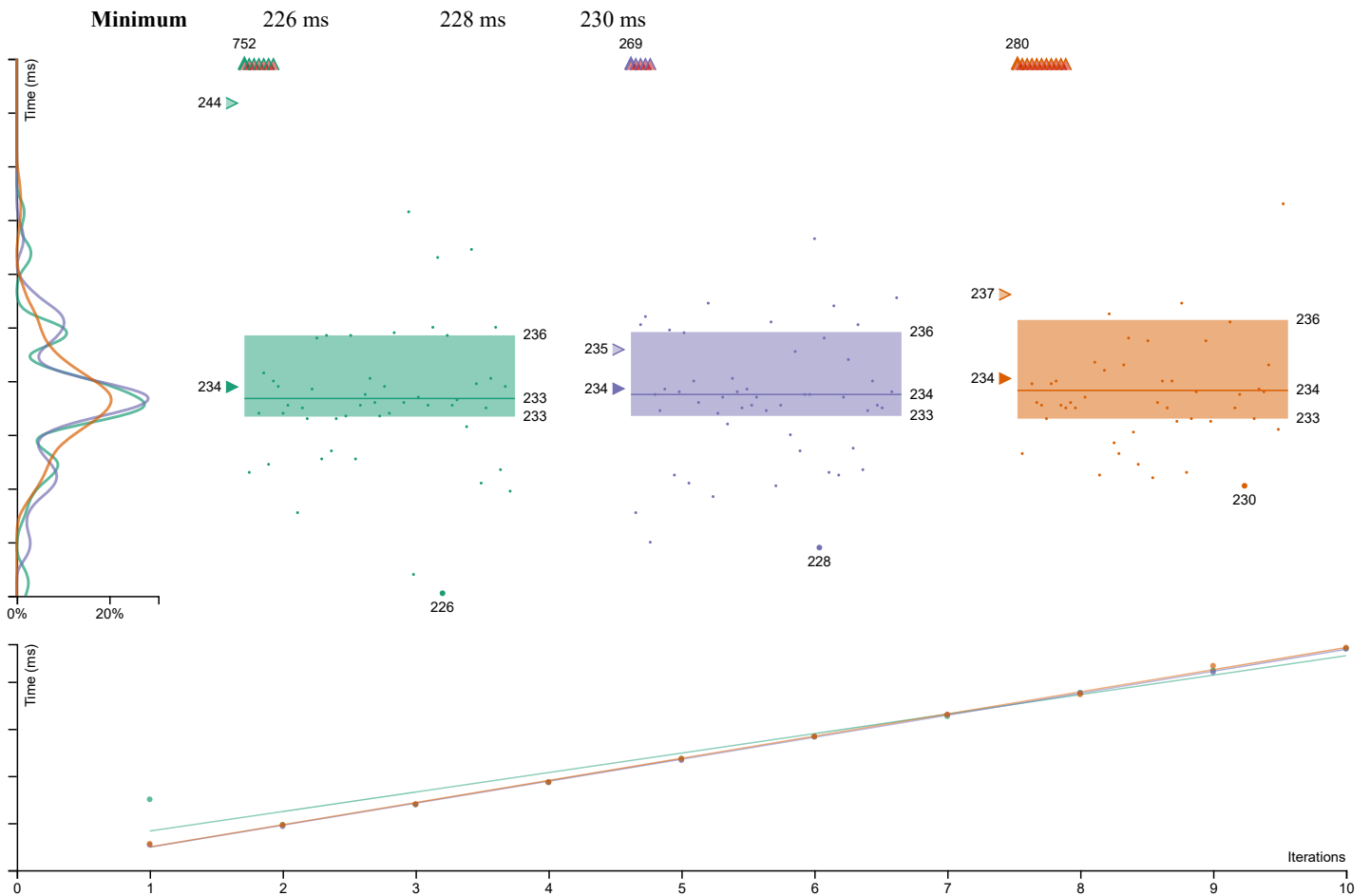
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 234 ms 234 ms 234 ms

(Windsorized) Deviation 1.45 ms 1.70 ms 3.09 ms

R<sup>2</sup> Slope / Correlation 207 ms / 0.976 ▲ 233 ms / 1.000 235 ms / 1.000





# TITLE

## MapLibre GL JS Benchmarks – Finished

MapIdle

v4.3.1

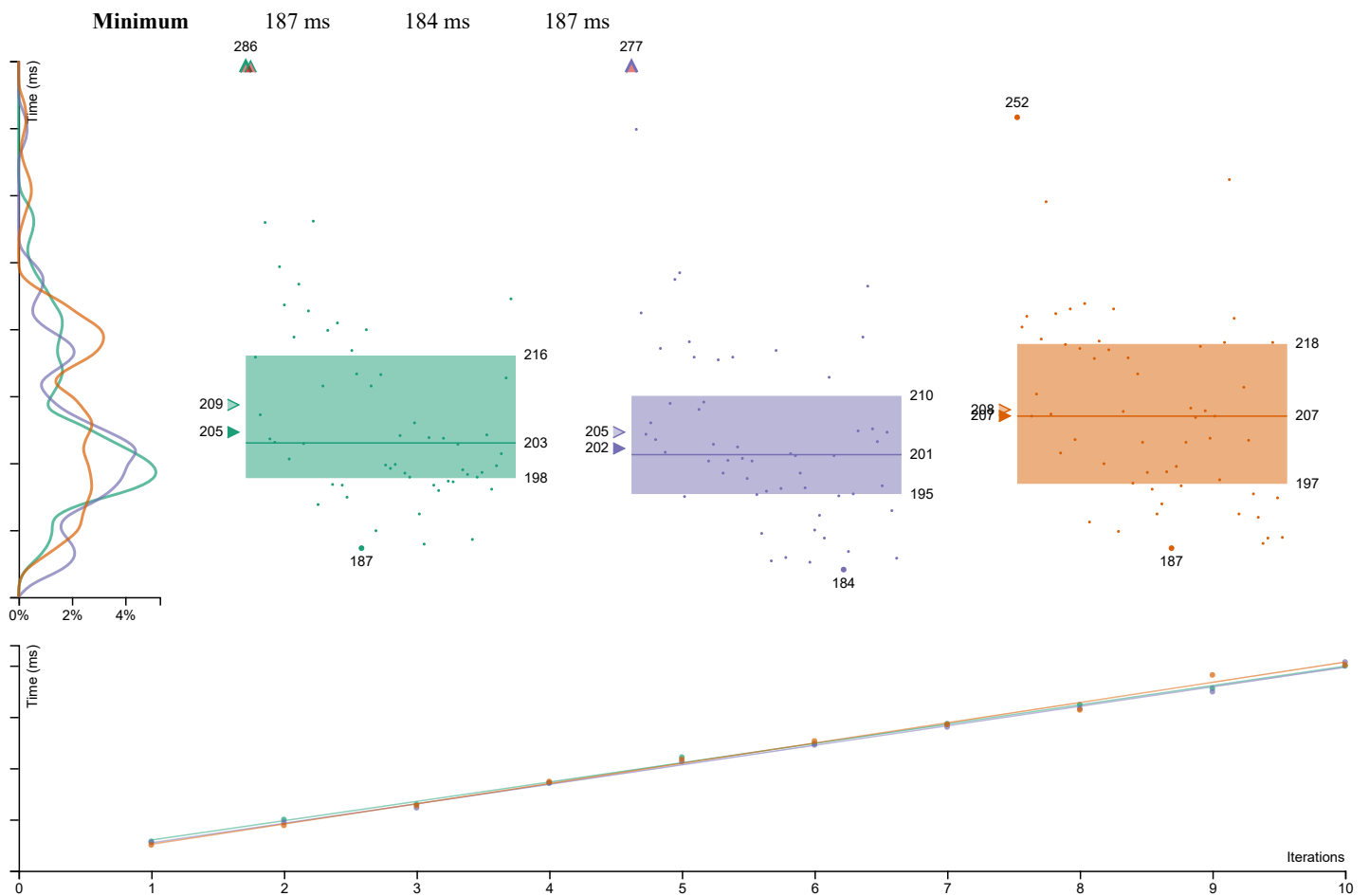
main

symbol-text-line-break a8c630e

(20% trimmed) Mean 205 ms 202 ms 207 ms

(Windsorized) Deviation 9.20 ms 8.05 ms 9.31 ms

R<sup>2</sup> Slope / Correlation 188 ms / 0.999 190 ms / 0.999 197 ms / 0.998



# TITLE

## MapLibre GL JS Benchmarks – Finished

SymbolCollisionBox

v4.3.1

main

symbol-text-line-break a8c630e

(20% trimmed) Mean 14.6 ms 14.8 ms 14.3 ms

(Windsorized) Deviation 0.233 ms 0.494 ms 0.379 ms

R<sup>2</sup> Slope / Correlation 12.9 ms / 0.970 ⚠ 15.1 ms / 0.970 ⚠ 14.6 ms / 0.961 ⚠

