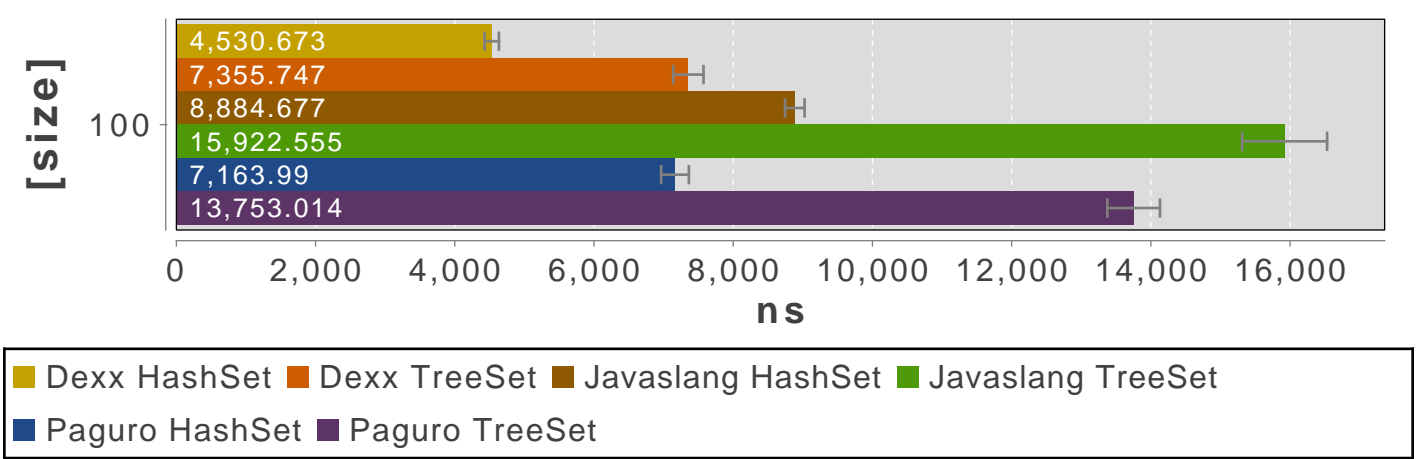# Sets.add

JMH 1.12 (released 184 days ago, please consider updating!)
VM invoker: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.102-1.b14.fc24.x86_64/jre/bin/java
VM options: <none>
Forks: 2 forks
Warmup: 20 iterations, 1 s each
Measurement: 10 iterations, 1 s each
Timeout: 10 min per iteration
Threads: 1 thread, will synchronize iterations
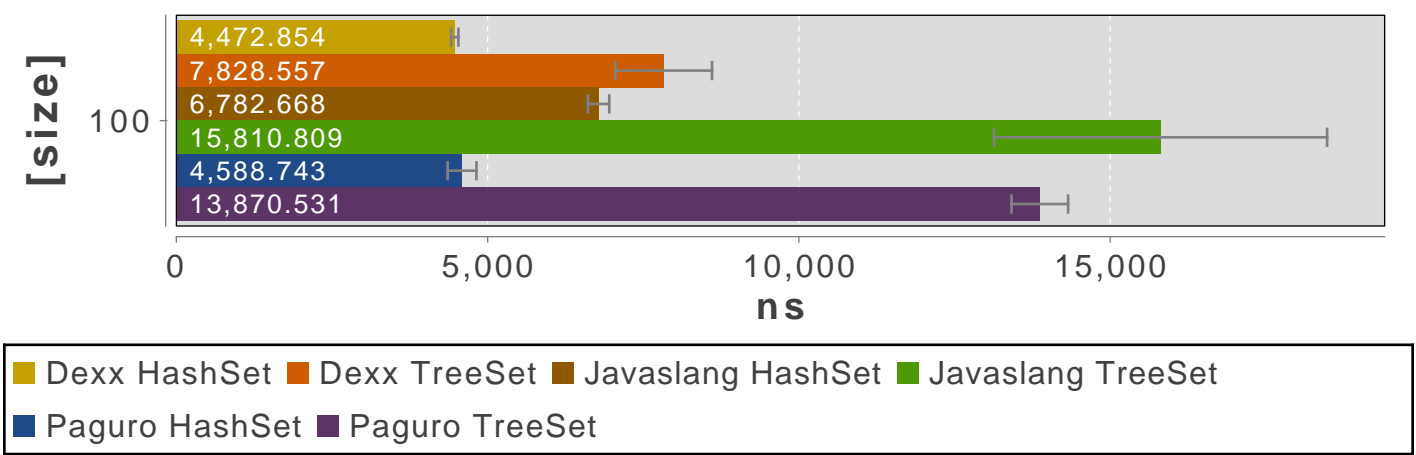**Benchmark mode:** Average time, time/op

implementation	[size]	Score	Error (±)	Unit
Dexx HashSet	100	4530.673	102.881	ns
Dexx TreeSet	100	7355.747	217.594	ns
Javaslang HashSet	100	8884.677	140.053	ns
Javaslang TreeSet	100	15922.555	609.938	ns
Paguro HashSet	100	7163.990	198.937	ns
Paguro TreeSet	100	13753.014	378.193	ns

Sets.build

JMH 1.12 (released 184 days ago, please consider updating!)
VM invoker: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.102-1.b14.fc24.x86_64/jre/bin/java
VM options: <none>
Forks: 2 forks
Warmup: 20 iterations, 1 s each
Measurement: 10 iterations, 1 s each
Timeout: 10 min per iteration
Threads: 1 thread, will synchronize iterations
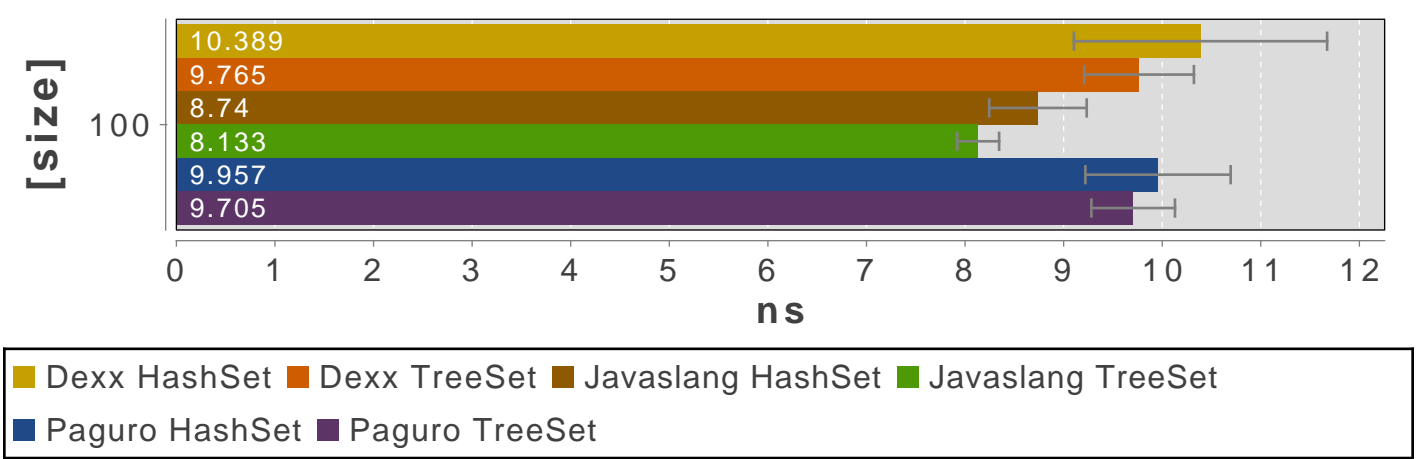**Benchmark mode:** Average time, time/op

implementation	[size]	Score	Error (±)	Unit
Dexx HashSet	100	4472.854	57.968	ns
Dexx TreeSet	100	7828.557	775.966	ns
Javaslang HashSet	100	6782.668	171.227	ns
Javaslang TreeSet	100	15810.809	2674.484	ns
Paguro HashSet	100	4588.743	231.586	ns
Paguro TreeSet	100	13870.531	454.601	ns

Sets.contains

JMH 1.12 (released 184 days ago, please consider updating!)
VM invoker: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.102-1.b14.fc24.x86_64/jre/bin/java
VM options: <none>
Forks: 2 forks
Warmup: 20 iterations, 1 s each
Measurement: 10 iterations, 1 s each
Timeout: 10 min per iteration
Threads: 1 thread, will synchronize iterations
Benchmark mode: Average time, time/op

implementation	[size]	Score	Error (±)	Unit
Dexx HashSet	100	10.389	1.284	ns
Dexx TreeSet	100	9.765	0.556	ns
Javaslang HashSet	100	8.740	0.494	ns
Javaslang TreeSet	100	8.133	0.213	ns
Paguro HashSet	100	9.957	0.737	ns
Paguro TreeSet	100	9.705	0.424	ns

Sets.iterate

JMH 1.12 (released 184 days ago, please consider updating!)
VM invoker: /usr/lib/jvm/java-1.8.0-openjdk-1.8.0.102-1.b14.fc24.x86_64/jre/bin/java
VM options: <none>
Forks: 2 forks
Warmup: 20 iterations, 1 s each
Measurement: 10 iterations, 1 s each
Timeout: 10 min per iteration
Threads: 1 thread, will synchronize iterations
Benchmark mode: Average time, time/op

implementation	[size]	Score	Error (±)	Unit
Dexx HashSet	100	1410.922	41.127	ns
Dexx TreeSet	100	852.927	24.080	ns
Javaslang HashSet	100	29791.275	2715.757	ns
Javaslang TreeSet	100	964.762	6.133	ns
Paguro HashSet	100	2802.535	148.115	ns
Paguro TreeSet	100	2529.444	51.404	ns