

5.5.3 Quicksort: Average Case

Warum interessiert das?



* 1987

Sebastian Wild



* 1981

Zlatan Ibrahimovic

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	Comparisons
Classic Quicksort (Algorithm 1)	$2(n+1)\mathcal{H}_{n+1} - \frac{8}{3}(n+1)$ $\approx 2n \ln n - 1.51n + \mathcal{O}(\ln n)$
Sedgewick (Algorithm 2)	$\frac{32}{15}(n+1)\mathcal{H}_{n+1} - \frac{856}{225}(n+1) + \frac{3}{2}$ $\approx 2.13n \ln n - 2.57n + \mathcal{O}(\ln n)$
Yaroslavskiy (Algorithm 3)	$\frac{19}{10}(n+1)\mathcal{H}_{n+1} - \frac{711}{200}(n+1) + \frac{3}{2}$ $\approx 1.9n \ln n - 2.46n + \mathcal{O}(\ln n)$

“Best Paper Award”