

## **OVERALL OBSERVATIONS BETWEEN ANGULARJS AND BOOTSTRAP:**

Metrics	AngularJS	Bootstrap
Major releases	7	4
Minor releases	108	45
Typescript support	Yes	No
Total questions on StackExchange	282126	105591
Unanswered questions on StackExchange	29900	33766
Number of contributors	1596	1050
Top 3 Contributors on Github	IgorMinar, petebacondarwin, mhevery	Mdo, cvrebert, XhmikosR
Frequency of commits	6.95 per week	26.51 per week
Bus factor	6	2
Ease of use	Difficult compared to Bootstrap	Easier
Ease of learning	Difficult compared to Bootstrap	Easier
Documentation clarity	Less clear than Bootstrap	Very clear
Start up cost*	2 weeks	1 week
Issues created for refactoring	32	No data available on Github
Average bug count by severity	214.125	No data available on Github
Bugs per severity (Code climate)	Critical: 42 Major: 3708 Minor: 486	Major: 303 Minor: 120
Bugs per component	888	1170
Open pull requests on Github	87	50
Closed pull requests on Github	7738	9261

Size	176 MB	416 KB
Time to install	1.5 minutes	11 seconds
Average bug lifetime	655.7333333333 minutes	332.3 minutes
Open Github issues	406	333
Closed Github issues	8483	17590
Code smells	2001	105
Code Duplication	2235	318
Issues with code complexity	2001	105
Total number of files	1468	416
Remediation time	26000 hours	1250 hours
Technical Debt Ratio	58.4%	71.5%
LOC	153449	7202