**OVERALL OBSERVATIONS BETWEEN ANGULARJS AND BOOTSTRAP:**

|  |  |  |
| --- | --- | --- |
| Metrics | AngularJS | Bootstrap |
| Major releases | 7 | 4 |
| Minor releases | 108 | 45 |
| Typescript support | Yes | No |
| Total questions on StackOverflow |  |  |
| Unanswered questions on StackOverflow |  |  |
| 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 | 655.733333333 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 |