**RQ1:**

Matplotlib

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Release | Dynamic features—changes | Dynamic features— no changes | No dynamic features— changes | No dynamic features— no changes | P-values | OR |
| 0.99.0 |  |  |  |  | <0.01 | 8.48 |
| 0.99.3 |  |  |  |  | <0.01 | 4.49 |
| 1.0.0 |  |  |  |  | <0.01 | 6.10 |
| 1.1.0 |  |  |  |  | <0.01 | 4.49 |
| 1.2.0 |  |  |  |  | 0.04 | 1.61 |
| 1.3.1 |  |  |  |  | <0.01 | 27.07 |
| 1.4.0 |  |  |  |  |  |  |

**RQ2:**

Matplotlib

|  |  |  |
| --- | --- | --- |
| Release | M-W | Cohen |
| 0.99.0 | <0.01 | 0.82 (large) |
| 0.99.3 | <0.01 | 0.24 (small) |
| 1.0.0 | <0.01 | 0.39 (small) |
| 1.1.0 | <0.01 | 0.40 (small) |
| 1.2.0 | 0.03 | 0.12 (negligible) |
| 1.3.1 | <0.01 | 0.70 (medium) |
| 1.4.0 |  |  |

**RQ3:**

Matplotlib

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Version ID  Dynamic Features | 0.99.0 | 0.99.3 | 1.0.0 | 1.1.0 | 1.2.0 | 1.3.1 | 1.4.1 |
| introspection | <0.01 | 0.04 | <0.01 | <0.01 | 0.30 | <0.01 |  |
| object changes | 0.40 | 0.14 | 0.04 | 0.02 | 0.50 | <0.01 |  |
| code generation | 0.39 | <0.01 | 0.38 | <0.01 | 0.75 | 0.87 |  |
| library loading | 0.57 | 0.52 | 0.01 | 0.22 | 0.10 | 0.31 |  |