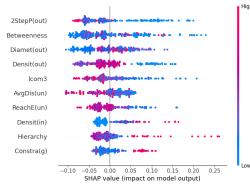
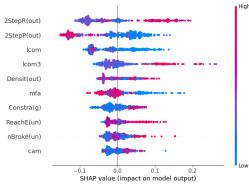
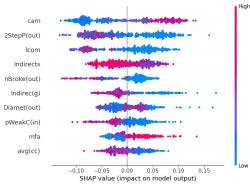
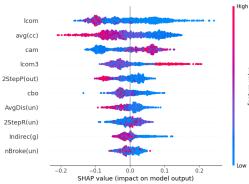
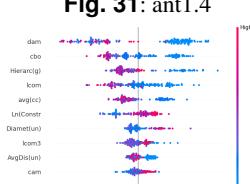
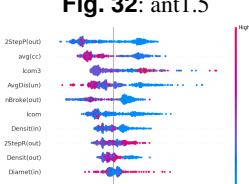
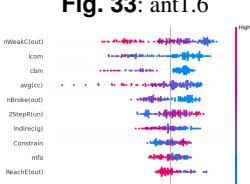
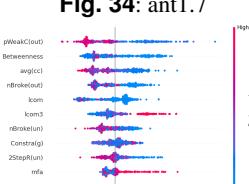
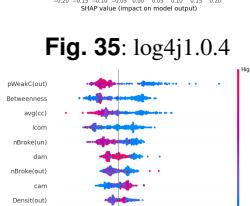
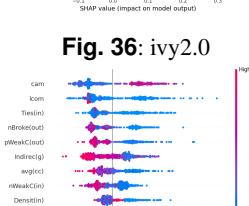
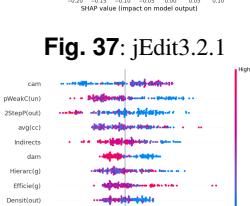
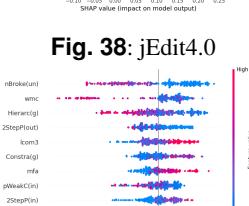
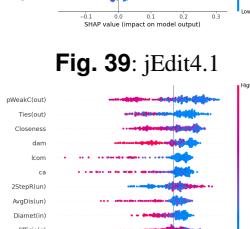
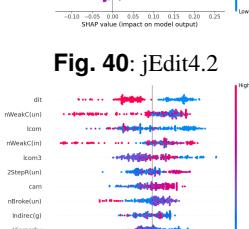
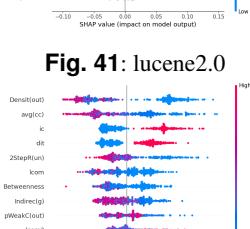
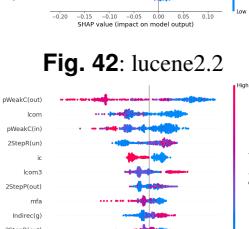
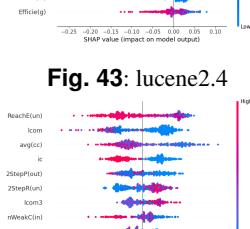
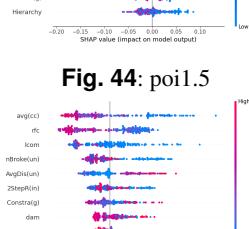
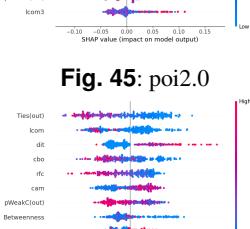
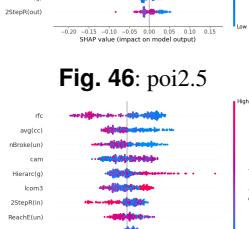
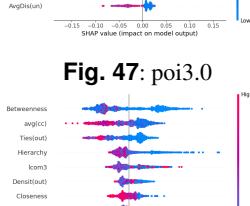
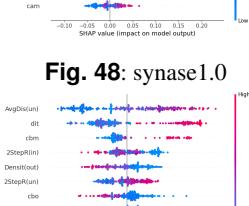
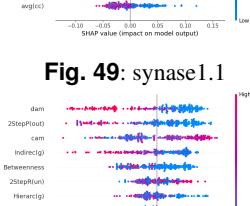
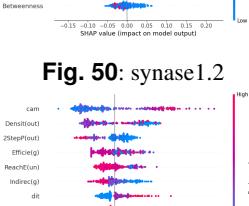
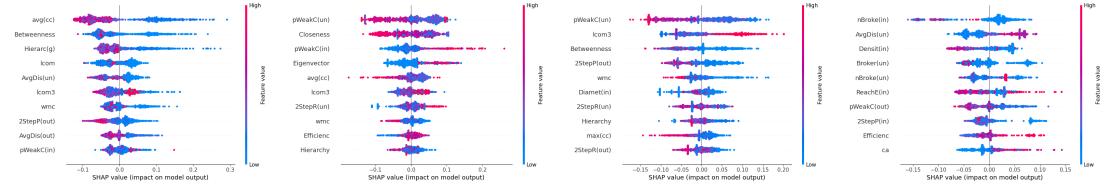
**Fig. 29:** xerces1.3.0**Fig. 30:** xerces1.4.4

**1.1.2 -Size/+SNA:** These are summary plots of all instances in within-project with (-Size/+SNA) metrics sets.

**Fig. 31:** ant1.4**Fig. 32:** ant1.5**Fig. 33:** ant1.6**Fig. 34:** ant1.7**Fig. 35:** log4j1.0.4**Fig. 36:** ivy2.0**Fig. 37:** jEdit3.2.1**Fig. 38:** jEdit4.0**Fig. 39:** jEdit4.1**Fig. 40:** jEdit4.2**Fig. 41:** lucene2.0**Fig. 42:** lucene2.2**Fig. 43:** lucene2.4**Fig. 44:** poi1.5**Fig. 45:** poi2.0**Fig. 46:** poi2.5**Fig. 47:** poi3.0**Fig. 48:** synapse1.0**Fig. 49:** synapse1.1**Fig. 50:** synapse1.2**Fig. 51:** Tomcat6.0.39**Fig. 52:** velocity1.4**Fig. 53:** velocity1.5**Fig. 54:** velocity1.6.1

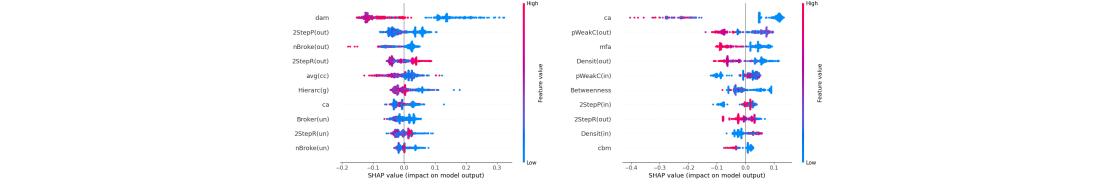


**Fig. 55:** xalan2.4.0

**Fig. 56:** xalan2.5.0

**Fig. 57:** xalan2.6.0

**Fig. 58:** xerces1.2.0

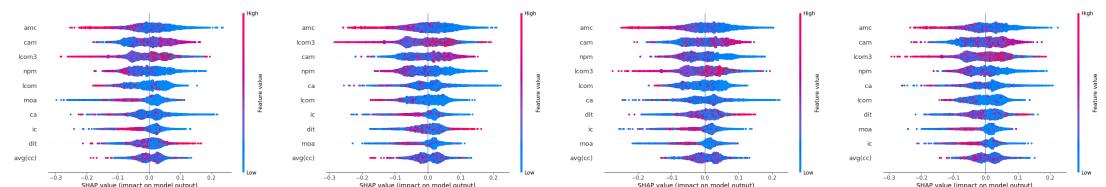


**Fig. 59:** xerces1.3.0

**Fig. 60:** xerces1.4.4

## 1.2 Cross-project

1.2.1 +Size/-SNA: These are summary plots of all instances in cross-project with (+Size/-SNA) metrics sets.

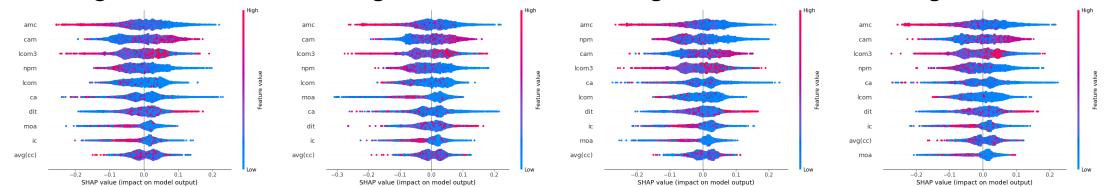


**Fig. 61:** ant1.4

**Fig. 62:** ant1.5

**Fig. 63:** ant1.6

**Fig. 64:** ant1.7

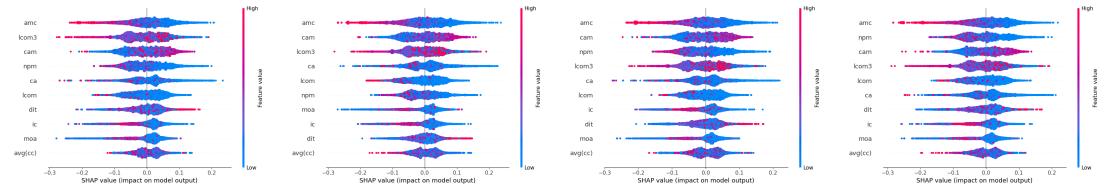


**Fig. 65:** log4j1.0.4

**Fig. 66:** ivy2.0

**Fig. 67:** jEdit3.2.1

**Fig. 68:** jEdit4.0

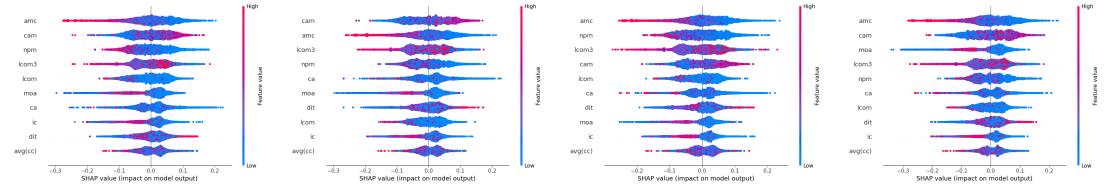


**Fig. 69:** jEdit4.1

**Fig. 70:** jEdit4.2

**Fig. 71:** lucene2.0

**Fig. 72:** lucene2.2

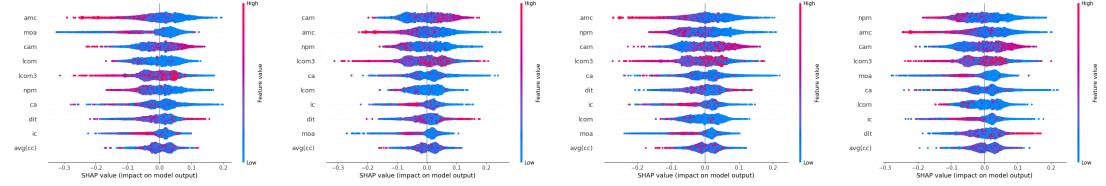


**Fig. 73:** lucene2.4

**Fig. 74:** poi1.5

**Fig. 75:** poi2.0

**Fig. 76:** poi2.5

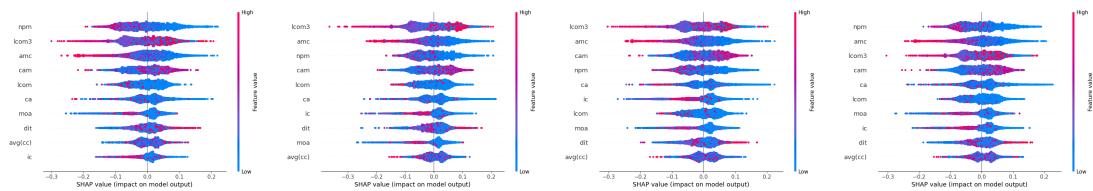


**Fig. 77:** poi3.0

**Fig. 78:** synase1.0

**Fig. 79:** synase1.1

**Fig. 80:** synase1.2

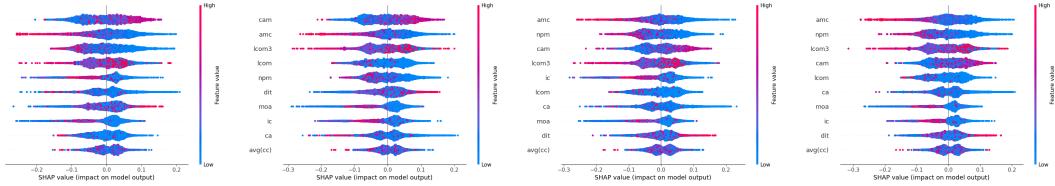


**Fig. 81:** Tomcat6.0.39

**Fig. 82:** velocity1.4

**Fig. 83:** velocity1.5

**Fig. 84:** velocity1.6.1

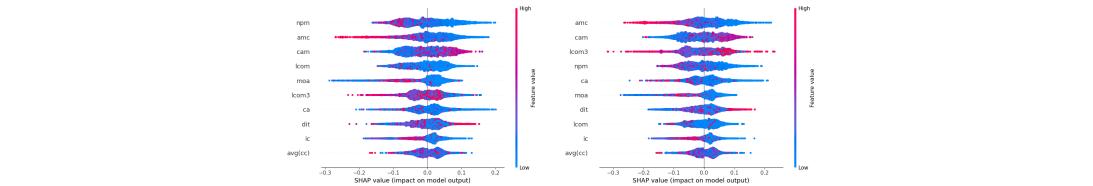


**Fig. 85:** xalan2.4.0

**Fig. 86:** xalan2.5.0

**Fig. 87:** xalan2.6.0

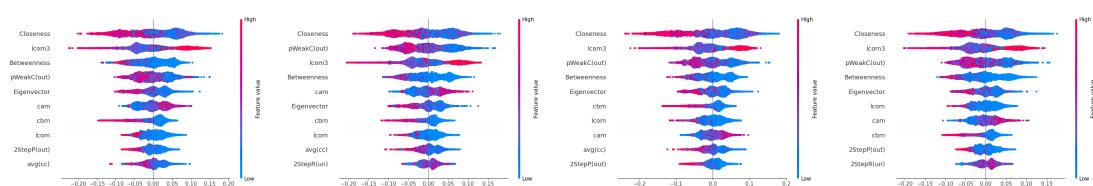
**Fig. 88:** xerces1.2.0



**Fig. 89:** xerces1.3.0

**Fig. 90:** xerces1.4.4

1.2.2 **-Size/+SNA:** These are summary plots of all instances in cross-project with (-Size/+SNA) metrics sets.

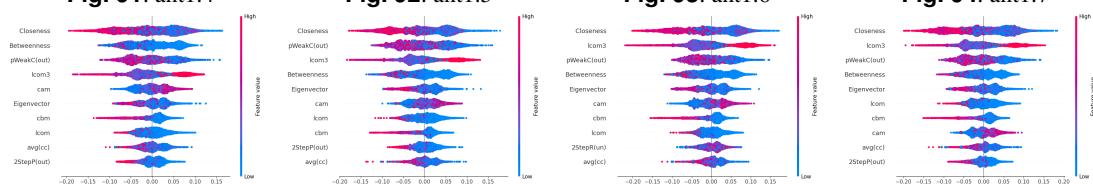


**Fig. 91:** ant1.4

**Fig. 92:** ant1.5

**Fig. 93:** ant1.6

**Fig. 94:** ant1.7

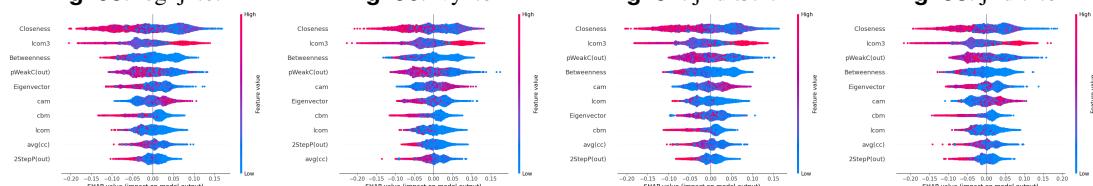


**Fig. 95:** log4j1.0.4

**Fig. 96:** ivy2.0

**Fig. 97:** jEdit3.2.1

**Fig. 98:** jEdit4.0

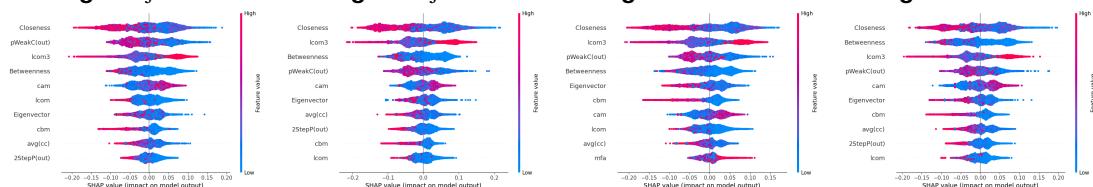


**Fig. 99:** jEdit4.1

**Fig. 100:** jEdit4.2

**Fig. 101:** lucene2.0

**Fig. 102:** lucene2.2

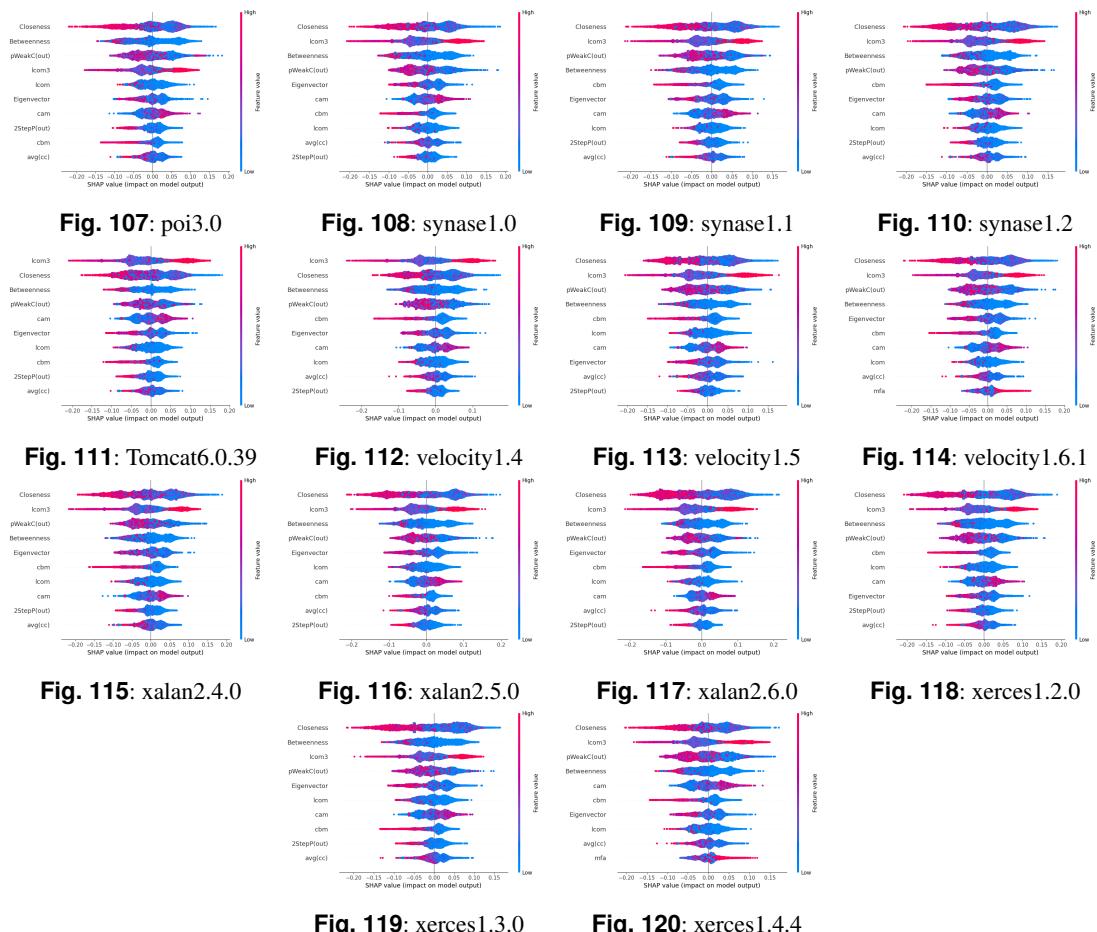


**Fig. 103:** lucene2.4

**Fig. 104:** poi1.5

**Fig. 105:** poi2.0

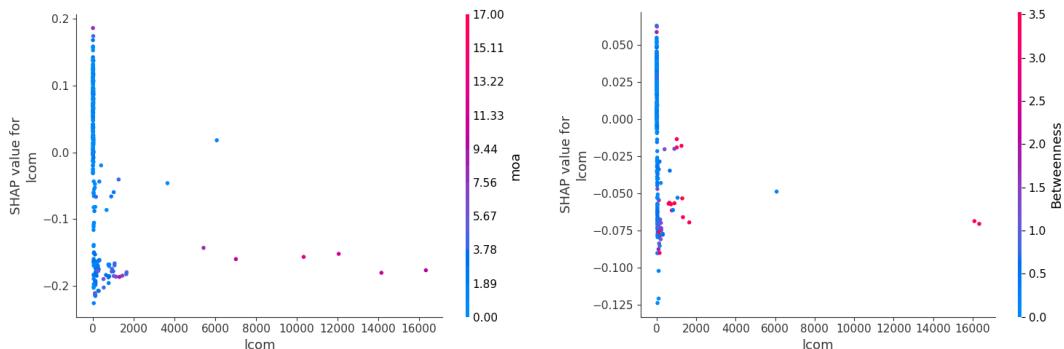
**Fig. 106:** poi2.5



## 2 Dependence plots

### 2.1 Within-project

These are dependence plots of combination of Betweenness and MOA metrics in within-project validation.

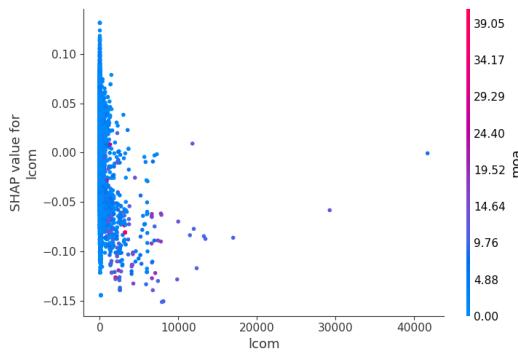


**Fig. 121:** MOA/LCOM

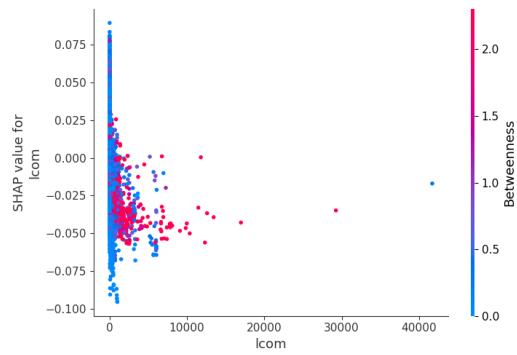
**Fig. 122:** Betweenness/LCOM

### 2.2 Cross-project

These are dependence plots of combination of Betweenness and MOA metrics in cross-project validation.



**Fig. 123:** MOA/LCOM



**Fig. 124:** Betweenness/LCOM