

# Tutorial of Stigmata



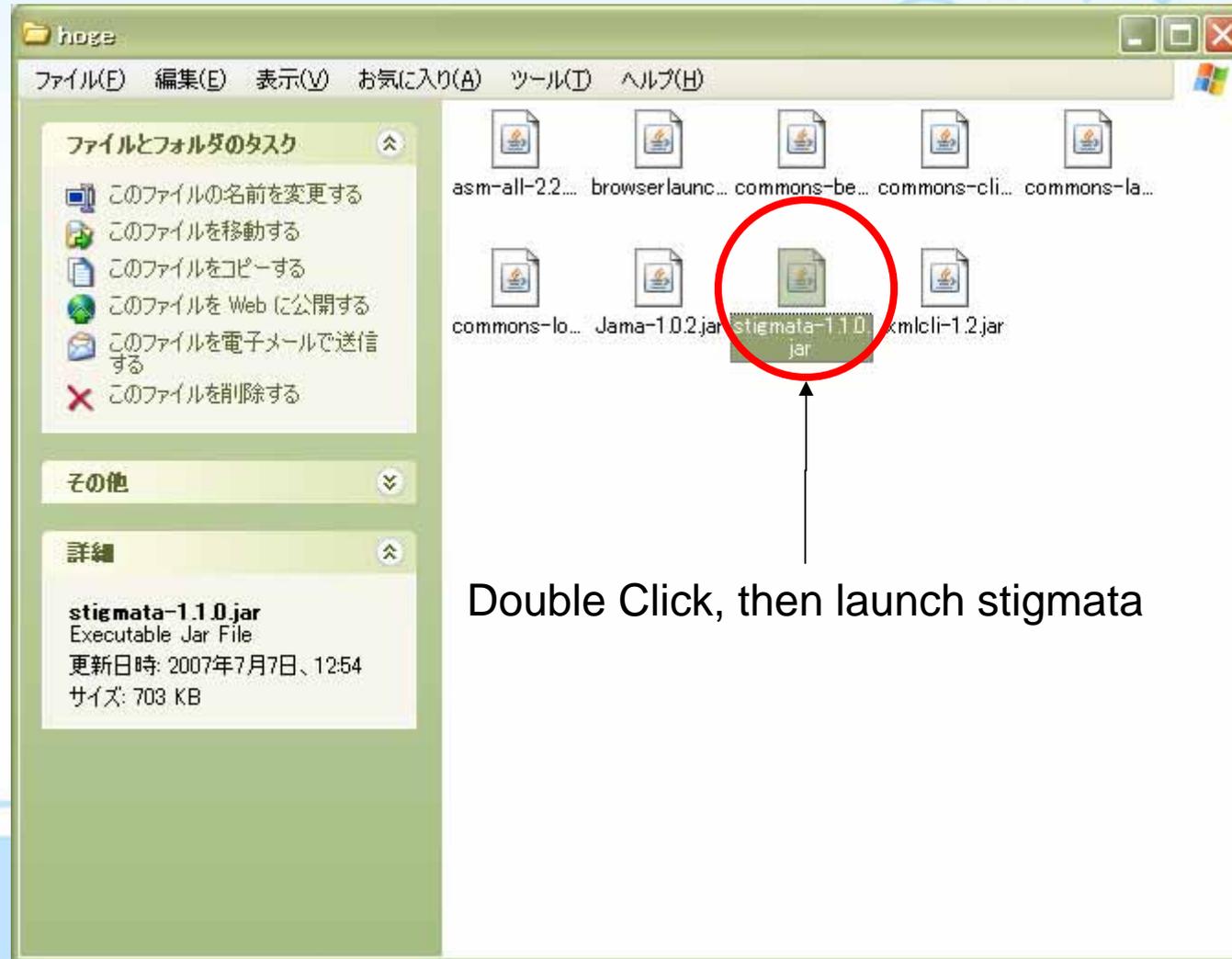
Haruaki Tamada, Ph.D.

<http://stigmata.sourceforge.jp/tutorial.pdf>

Software Engineering Lab.,  
Graduate School of Information and Science,  
Nara Institute of Science and Technology

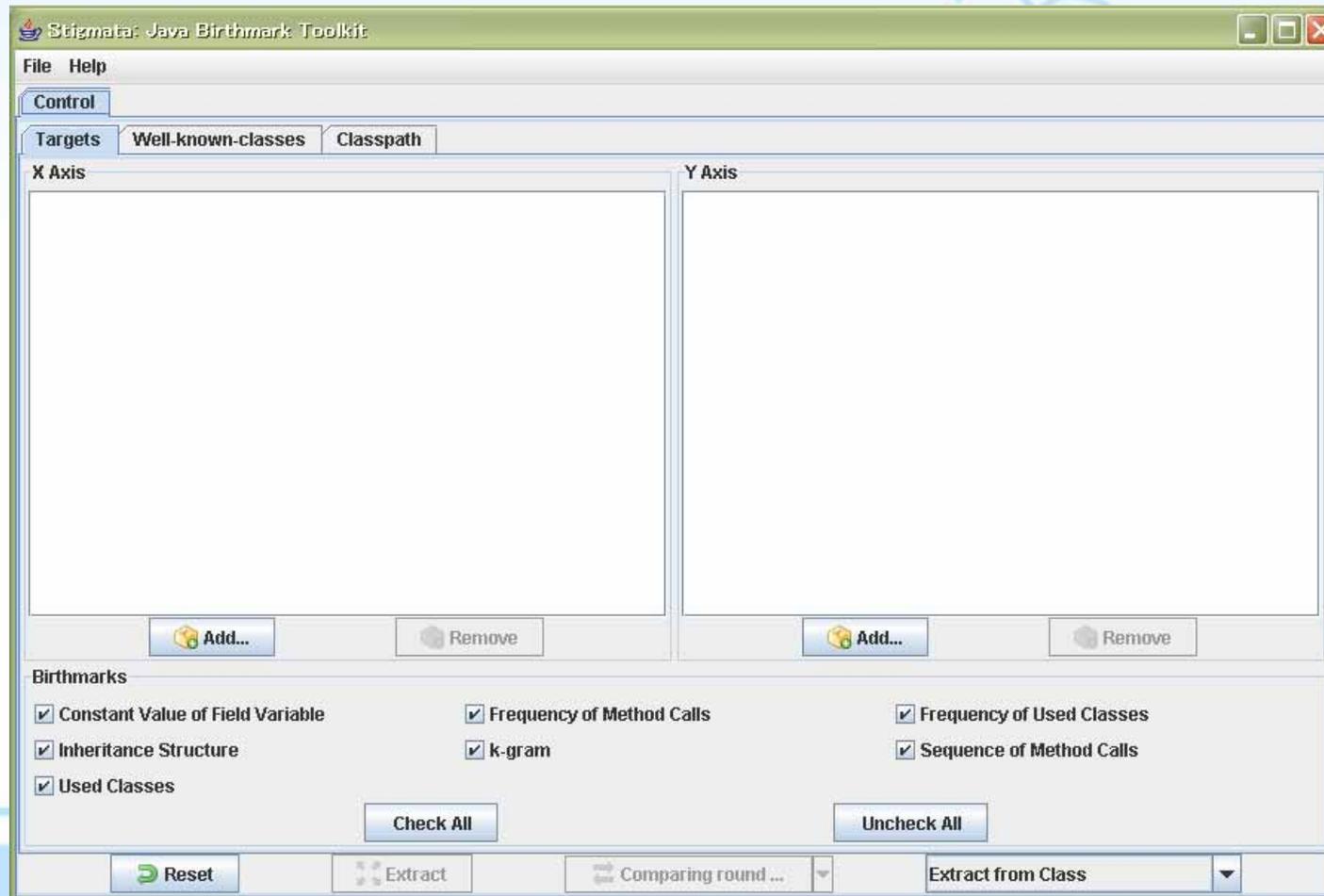


# Launching Stigmata

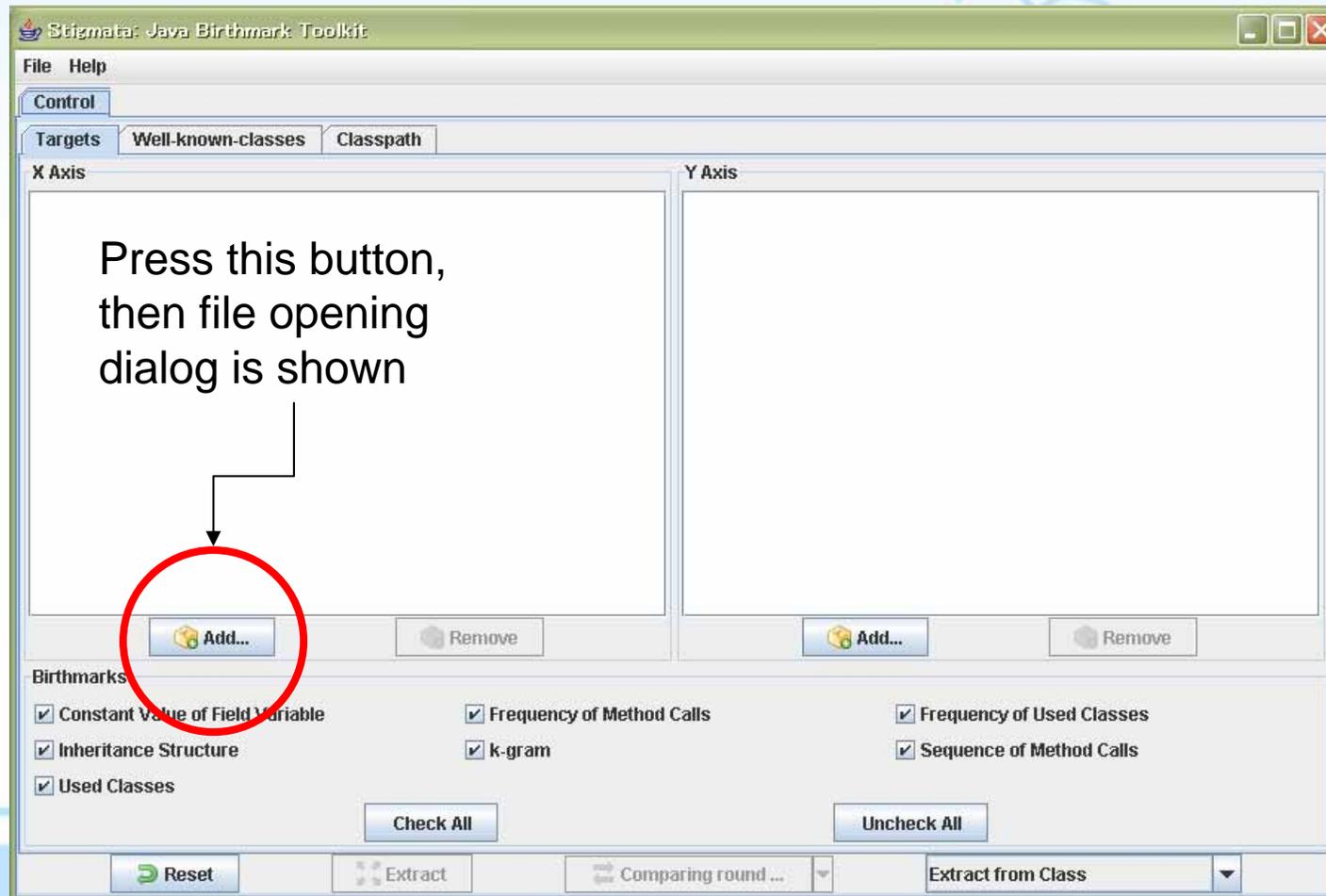


Double Click, then launch stigmata

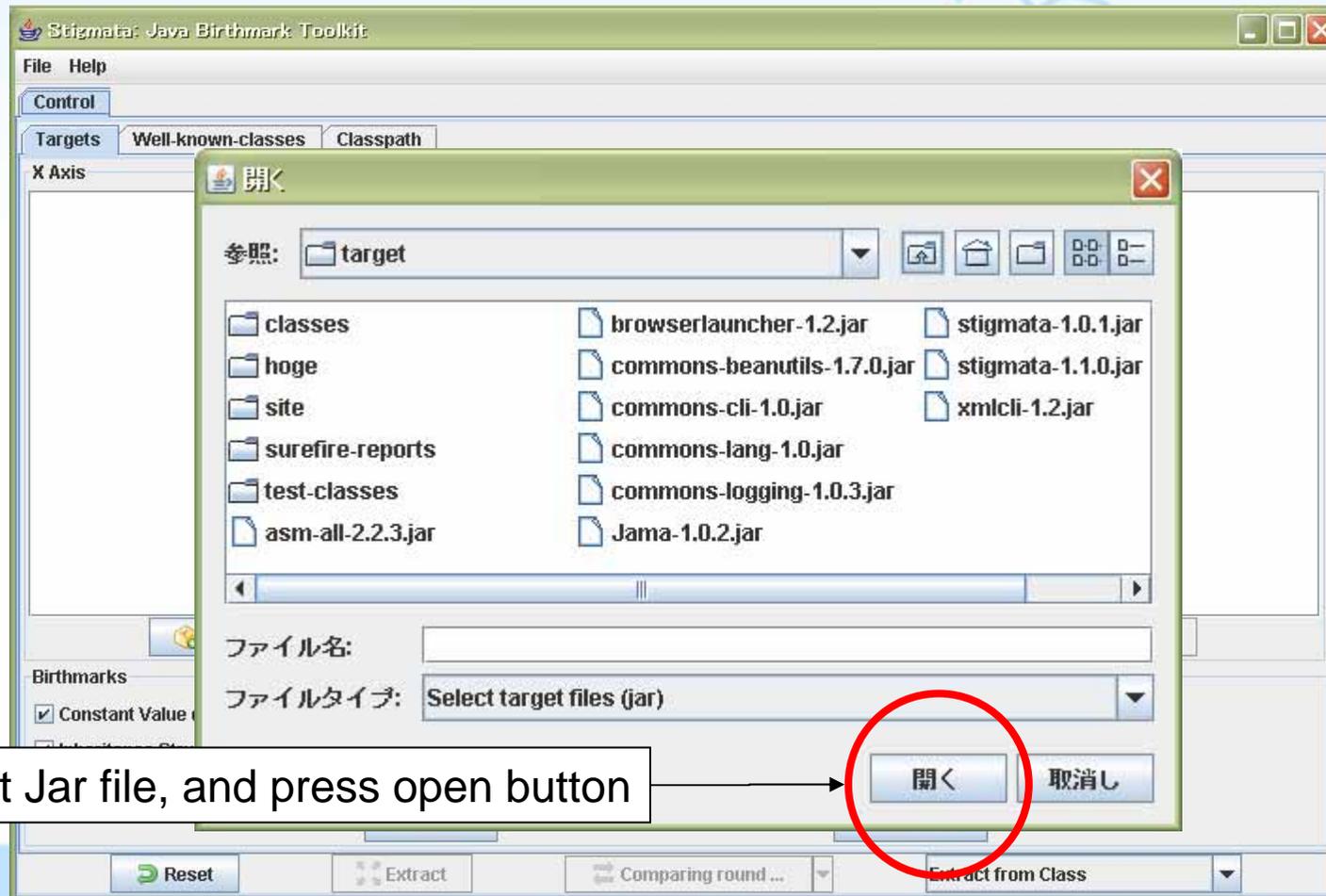
# Screenshot



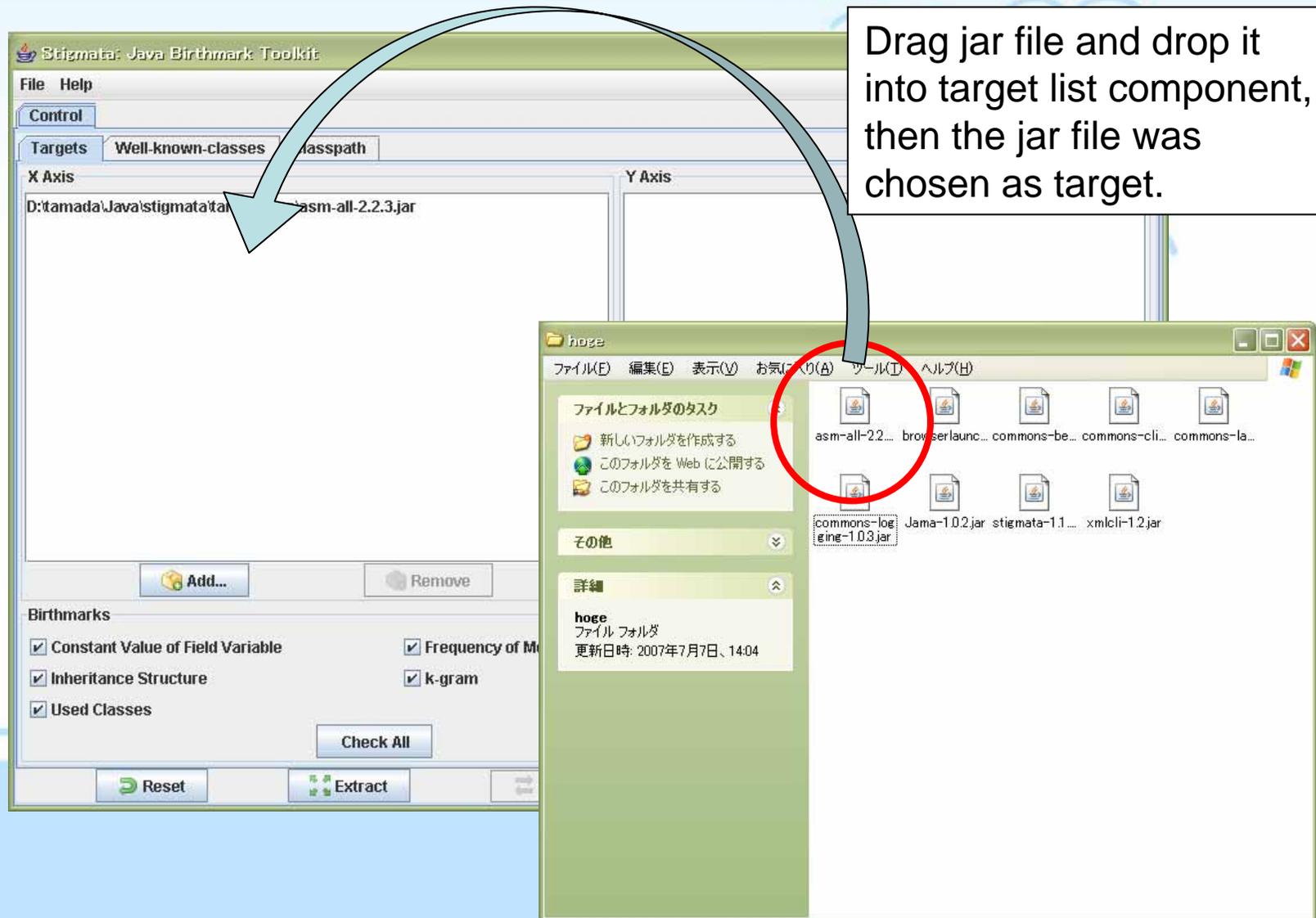
# Choose target



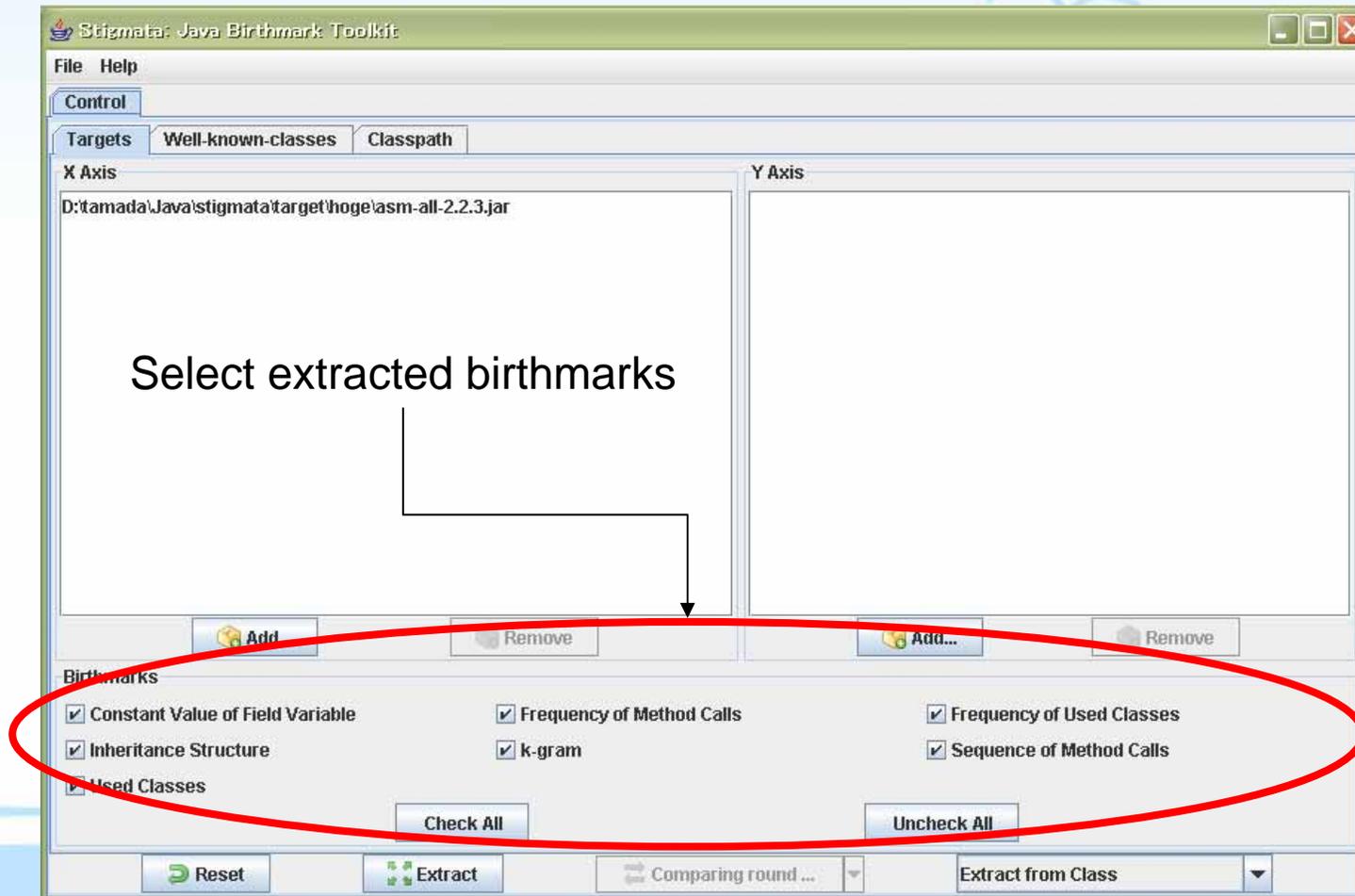
# Choose target jar file



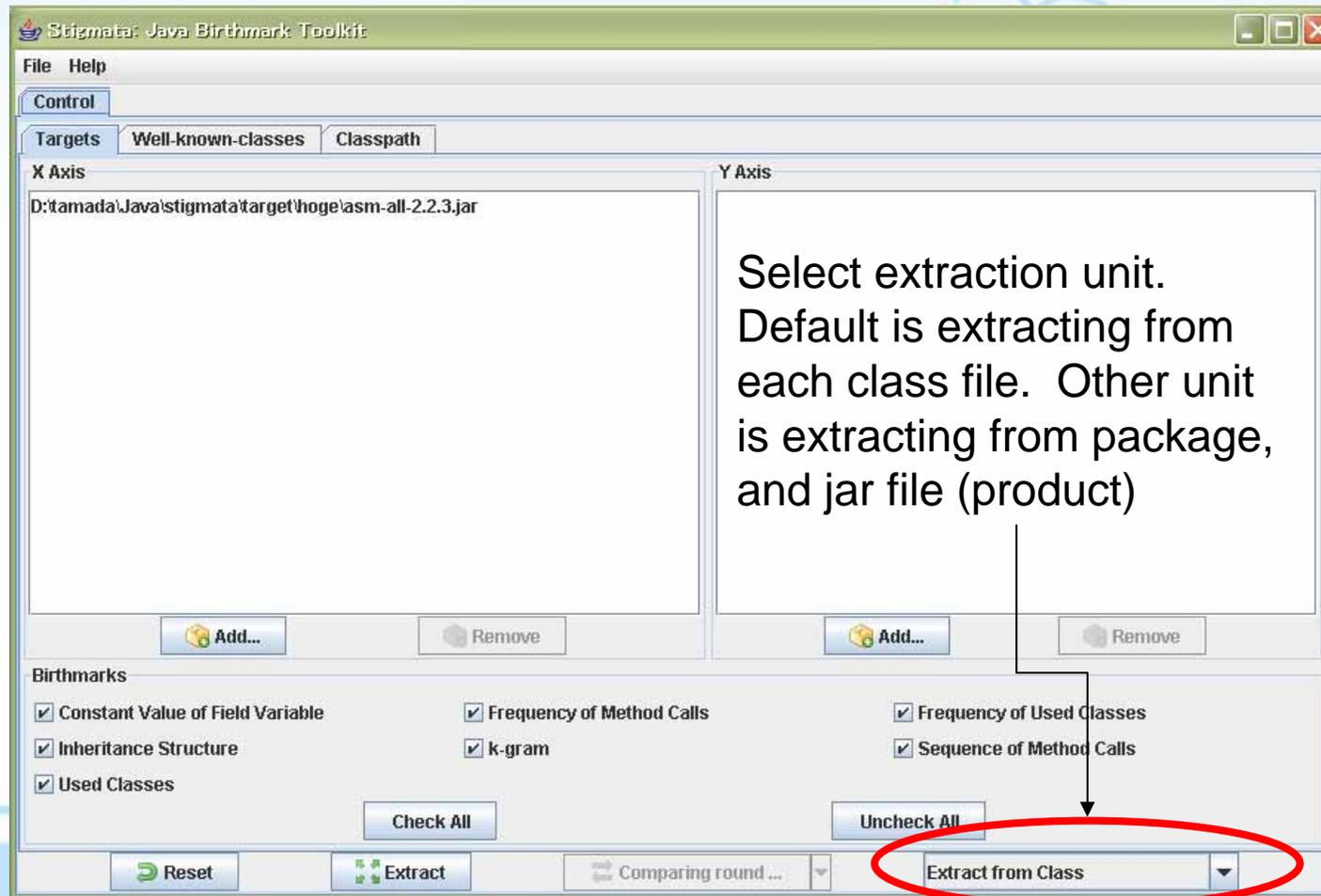
# Other choice method (D&D)



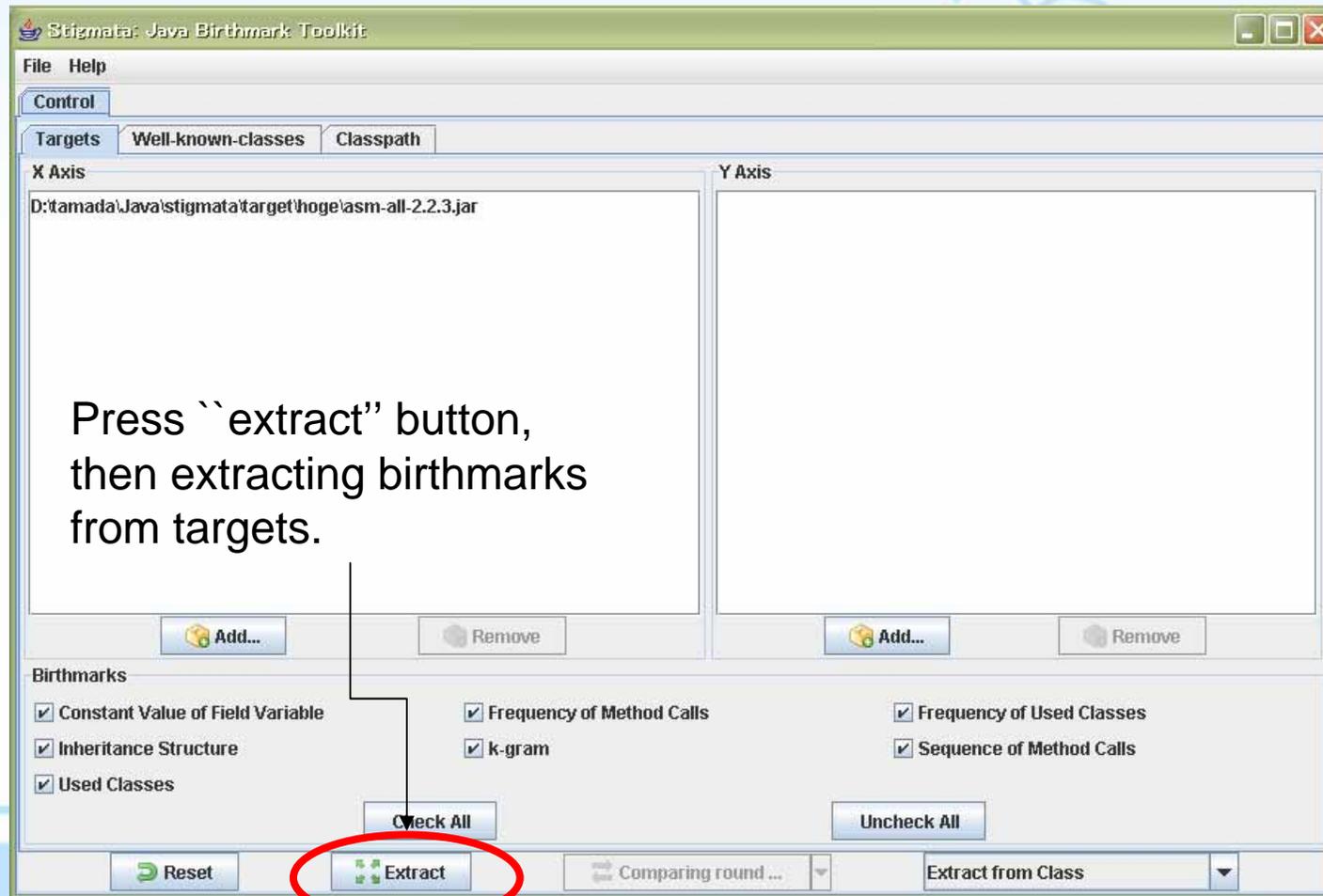
# Select extracted birthmarks



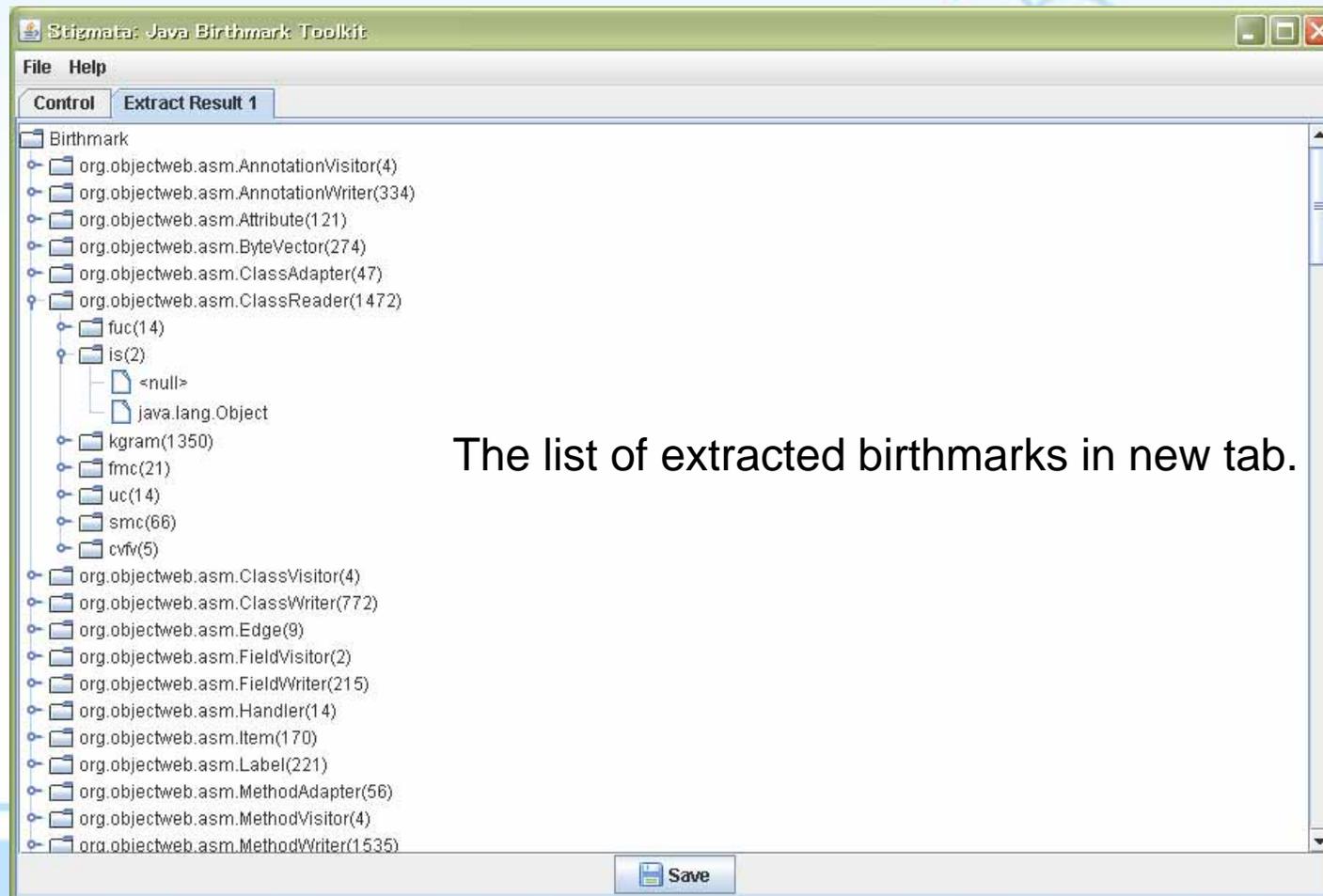
# Select extraction unit



# Extract birthmarks from targets

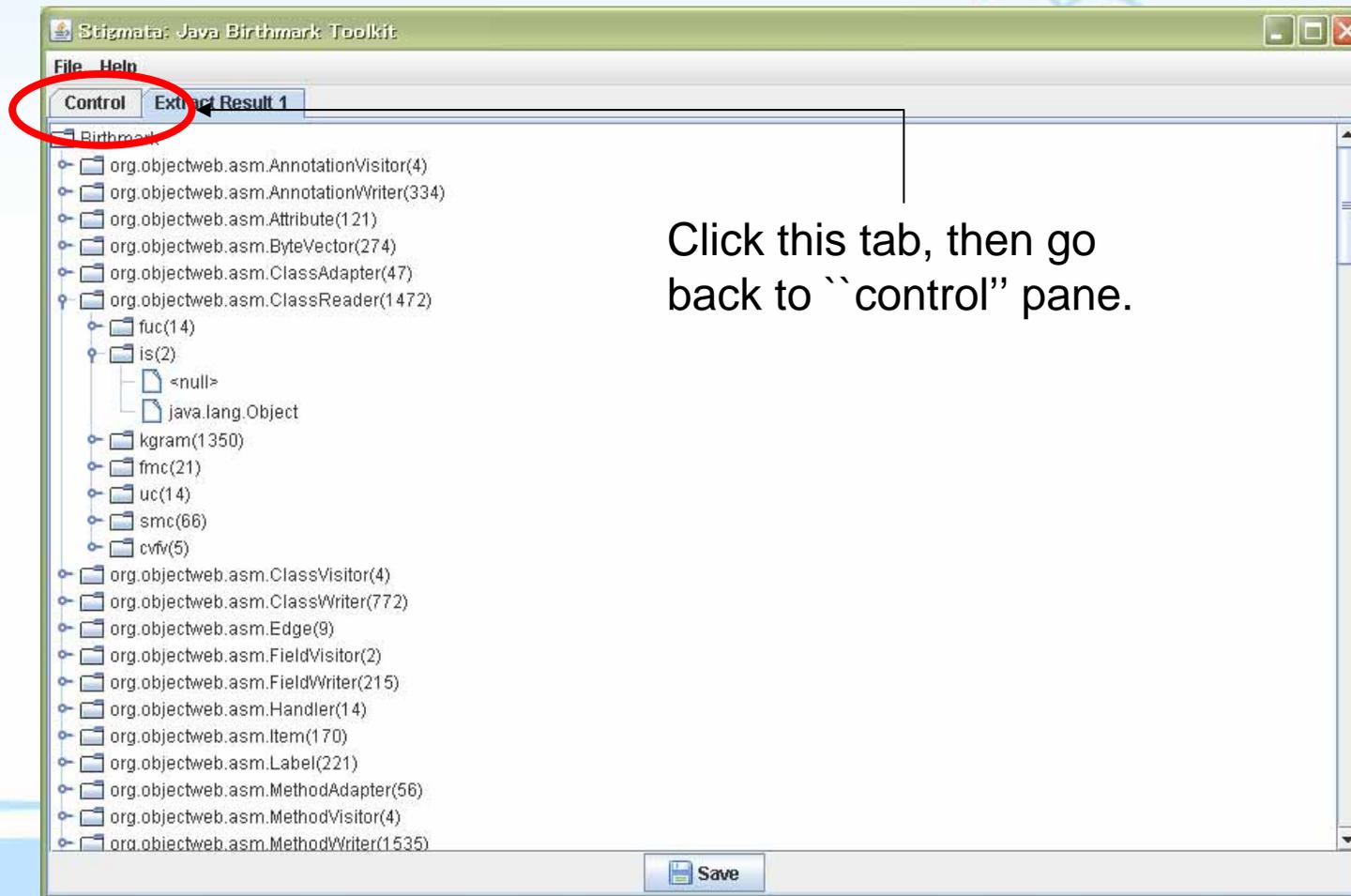


# Extract birthmarks from targets

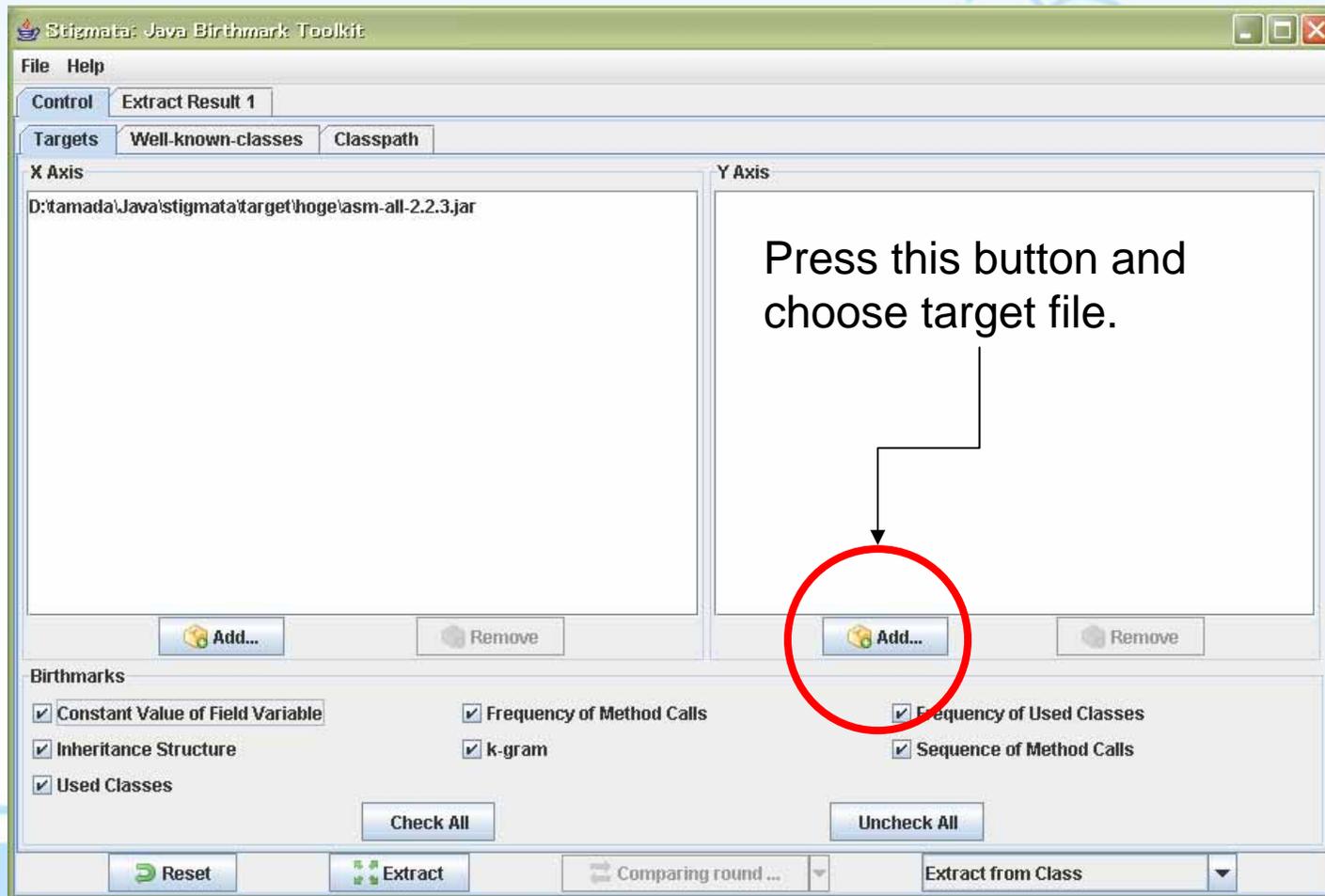


The list of extracted birthmarks in new tab.

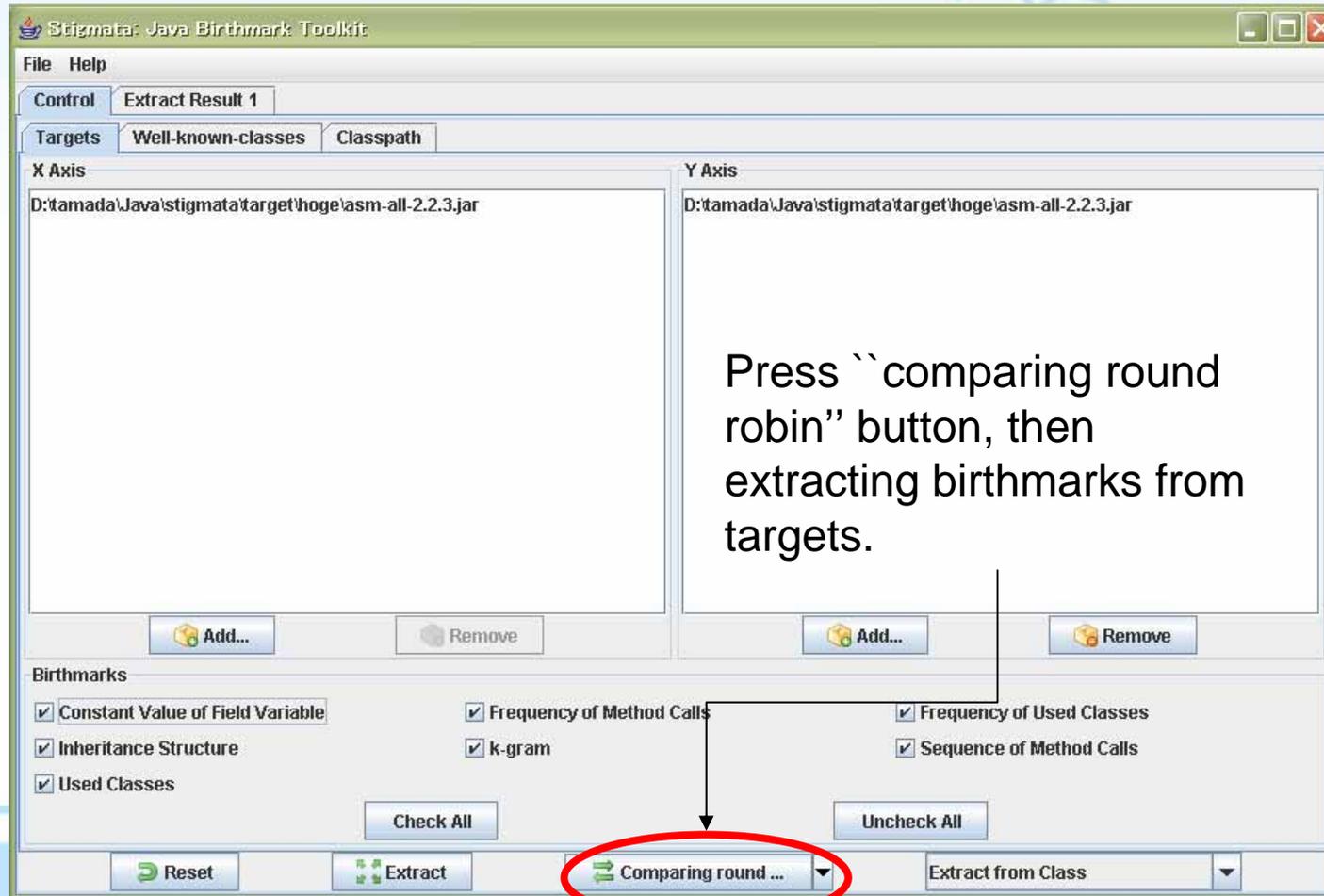
# Back to ``control'' pane



# Add target file into Y axis



# Extract birthmarks from targets



# Comparison result of birthmarks (Round robin comparison)

Stigmata: Java Birthmark Toolkit

File Help

Control Extract Result 1 Compare Result 2

	org.objectw...										
org.objectw...	1.0	0.2083820...	0.2540641...	0.2170267...	0.2854677...	0.1756839...	0.9994671...	0.1856371...	0.2582982...	0.9509451...	0.2857113...
org.objectw...	0.2083820...	1.0	0.4371795...	0.4497971...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.5056838...
org.objectw...	0.2540641...	0.4371795...	1.0	0.5334524...	0.6033458...	0.3513760...	0.2513497...	0.3739792...	0.4554655...	0.2062080...	0.6118689...
org.objectw...	0.2170267...	0.4497971...	0.5334524...	1.0	0.4563072...	0.3725337...	0.2086428...	0.3464044...	0.4196907...	0.1600248...	0.4621988...
org.objectw...	0.2854677...	0.4526200...	0.6033458...	0.4563072...	1.0	0.3281552...	0.2856597...	0.3857966...	0.5356731...	0.2376017...	0.7153055...
org.objectw...	0.1756839...	0.3804632...	0.3513760...	0.3725337...	0.3281552...	1.0	0.1730050...	0.4456042...	0.2146785...	0.1540757...	0.3303085...
org.objectw...	0.9994671...	0.2077885...	0.2513497...	0.2086428...	0.2856597...	0.1730050...	1.0	0.1861151...	0.2460195...	0.9521610...	0.2852570...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	1.0	0.2276778...	0.1657161...	0.4374367...
org.objectw...	0.2582982...	0.3031272...	0.4554655...	0.4196907...	0.5356731...	0.2146785...	0.2460195...	0.2276778...	1.0	0.1428571...	0.5431114...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.1600248...	0.2376017...	0.1540757...	0.9521610...	0.1657161...	0.1428571...	1.0	0.2367852...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.7030229...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.5156606...
org.objectw...	0.1653606...	0.3174774...	0.4883315...	0.4464300...	0.3947176...	0.3223314...	0.1605608...	0.3615539...	0.3720975...	0.1191229...	0.4443716...
org.objectw...	0.2856259...	0.4527285...	0.6033993...	0.4585172...	0.8285316...	0.3292885...	0.2855268...	0.3856253...	0.5390285...	0.2372822...	0.7153911...
org.objectw...	0.9998442...	0.2079734...	0.2519235...	0.2102314...	0.2857042...	0.1735725...	0.9998821...	0.1861069...	0.2482733...	0.9520179...	0.2854113...
org.objectw...	0.2569725...	0.4532197...	0.5162823...	0.5965887...	0.4417927...	0.3683268...	0.2567222...	0.4340927...	0.2707923...	0.2131434...	0.5000570...
org.objectw...	0.5714285...	0.0	0.0	0.0	0.0	0.0	0.5714285...	0.0	0.1428571...	0.5714285...	0.0
org.objectw...	0.1480469...	0.2863892...	0.2985445...	0.2909503...	0.3105372...	0.2912523...	0.1481613...	0.3142978...	0.2152148...	0.1139594...	0.3186811...
org.objectw...	0.0849913...	0.1341502...	0.1531659...	0.1523019...	0.1470954...	0.1468551...	0.0826792...	0.1542766...	0.1181605...	0.0556955...	0.1486911...
org.objectw...	0.1291459...	0.2836295...	0.3735537...	0.3410025...	0.3516553...	0.2865983...	0.1265507...	0.3227865...	0.2931275...	0.0906920...	0.3522777...
org.objectw...	0.1259395...	0.1677090...	0.1854451...	0.1798070...	0.1845457...	0.2210416...	0.1297375...	0.1025674...	0.1274283...	0.0915698...	0.1872777...

# of classes: 290  
 Comparison count: 21025  
 Distinction ratio: 0.9928180737217598

Similarity  
 Average: 0.24590789827268364  
 Minimum: 0.0  
 Maximum: 1.0

Save Update Cell Color Graph Obfuscation... Comparing guessed pair

# Comparison result of birthmarks (Round robin comparison)

The screenshot displays the Stigmata: Java Birthmark Toolkit interface. The main window shows a table with columns for 'Control', 'Extract Result 1', and 'Compare Result 2'. The table contains numerical data for various 'org.objectw...' entries. A red circle highlights the 'Save' button in the bottom toolbar.

Click ``Save`` button, then file save dialog is shown. You can save those result as csv and xml format.

Control	Extract Result 1	Compare Result 2
org.objectw...	0.9994671	0.9509451
org.objectw...	0.2083820	0.4371795
org.objectw...	0.2540641	0.4371795
org.objectw...	0.2170267	0.5334524
org.objectw...	0.2854677	0.4526200
org.objectw...	0.1756839	0.3804632
org.objectw...	0.9994671	0.2077885
org.objectw...	0.1856371	0.5005676
org.objectw...	0.2582982	0.3031272
org.objectw...	0.9509451	0.1762578

Summary statistics:

- # of classes: 290
- Comparison count: 21025
- Distinction ratio: 0.9928180737217598
- Similarity: Average 0.7459078982726864, Minimum 0.0, Maximum 1.0

Buttons: Save, Update Cell Color, Graph, Obfuscation..., Comparing guessed pair

# Extract birthmarks from targets

Stigmata: Java Birthmark Toolkit

File Help

Control Extract Result 1 Compare Result 2

	org.objectw...										
org.objectw...	1.0	0.2083820...	0.2540641...	0.2170267...	0.2854677...	0.1756839...	0.9994671...	0.1856371...	0.2582982...	0.9509451...	0.28571...
org.objectw...	0.2083820...	1.0	0.4371795...	0.4497971...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.50568...
org.objectw...	0.2540641...	0.4371795...	1.0	0.5334524...	0.6033458...	0.3513760...	0.2513497...	0.3739792...	0.4554655...	0.2062080...	0.61188...
org.objectw...	0.2170267...	0.4497971...	0.5334524...	1.0	0.4563072...	0.3725337...	0.2086428...	0.3464044...	0.4196907...	0.1600248...	0.46219...
org.objectw...	0.2854677...	0.4526200...	0.6033458...	0.4563072...	1.0	0.3281552...	0.2856597...	0.3857966...	0.5356731...	0.2376017...	0.71530...
org.objectw...	0.1756839...	0.3804632...	0.3513760...	0.3725337...	0.3281552...	1.0	0.1730050...	0.4456042...	0.2146785...	0.1540757...	0.33030...
org.objectw...	0.9994671...	0.2077885...	0.2513497...	0.2086428...	0.2856597...	0.1730050...	1.0	0.1861151...	0.2460195...	0.9521610...	0.28525...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	1.0	0.2276778...	0.1657161...	0.43743...
org.objectw...	0.2582982...	0.3031272...	0.4554655...	0.4196907...	0.5356731...	0.2146785...	0.2460195...	0.2276778...	1.0	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.1600248...	0.2376017...	0.1540757...	0.9521610...	0.1657161...	0.1428571...	1.0	0.23678...
89...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0	0.70302...	0.51566...	0.44437...
75...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...	0.51566...	0.44437...	0.71539...
35...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...	0.44437...	0.71539...	0.28541...
15...	0.4464300...	0.3947176...	0.3223314...	0.1605608...	0.3615539...	0.3720975...	0.1191229...	0.44437...	0.71539...	0.28541...	0.50005...
93...	0.4585172...	0.8285316...	0.3292885...	0.2855268...	0.3856253...	0.5390285...	0.2372822...	0.71539...	0.28541...	0.50005...	0.0
35...	0.2102314...	0.2857042...	0.1735725...	0.9999821...	0.1861069...	0.2482733...	0.9520179...	0.28541...	0.50005...	0.0	0.0
23...	0.5965887...	0.4417927...	0.3683268...	0.2567222...	0.4340927...	0.2707923...	0.2131434...	0.50005...	0.0	0.0	0.0
org.objectw...	0.1480469...	0.2863892...	0.2985445...	0.2909503...	0.3105372...	0.2912523...	0.1481613...	0.3142978...	0.2152148...	0.1139594...	0.31868...
org.objectw...	0.0849913...	0.1341502...	0.1531659...	0.1523019...	0.1470954...	0.1468551...	0.0826792...	0.1542766...	0.1181605...	0.0556955...	0.14869...
org.objectw...	0.1291459...	0.2836295...	0.3735537...	0.3410025...	0.3516553...	0.2865983...	0.1265507...	0.3227865...	0.2931275...	0.0906920...	0.35227...
org.objectw...	0.1259395...	0.1677090...	0.1854451...	0.1798070...	0.1845457...	0.2210416...	0.1297375...	0.1025674...	0.1274283...	0.0915688...	0.18727...

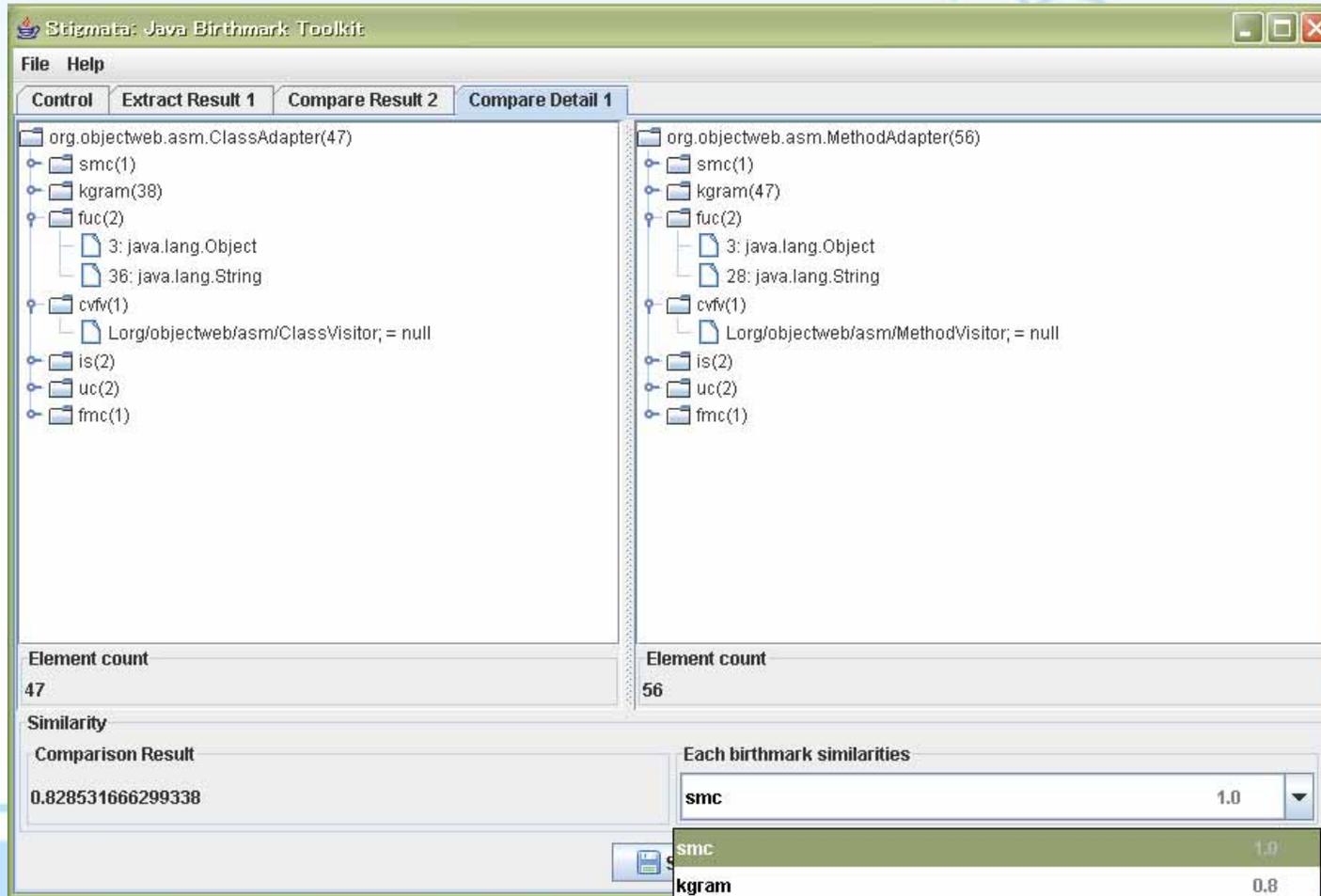
# of classes: 290  
 Comparison count: 21025  
 Distinction ratio: 0.9928180737217598

Similarity  
 Average: 0.24590789827268364  
 Minimum: 0.0  
 Maximum: 1.0

Save Update Cell Color Graph Obfuscation... Comparing guessed pair

Double clicking some cell, then opening new tab to show details of comparison pair.

# The result of comparison pair



Stigmata: Java Birthmark Toolkit

File Help

Control Extract Result 1 Compare Result 2 Compare Detail 1

org.objectweb.asm.ClassAdapter(47)

- smc(1)
- kgram(38)
- fuc(2)
  - 3: java.lang.Object
  - 36: java.lang.String
- cvfv(1)
  - Lorg/objectweb/asm/ClassVisitor; = null
- is(2)
- uc(2)
- fmc(1)

Element count  
47

Similarity

Comparison Result  
0.828531666299338

org.objectweb.asm.MethodAdapter(56)

- smc(1)
- kgram(47)
- fuc(2)
  - 3: java.lang.Object
  - 28: java.lang.String
- cvfv(1)
  - Lorg/objectweb/asm/MethodVisitor; = null
- is(2)
- uc(2)
- fmc(1)

Element count  
56

Each birthmark similarities

smc	1.0
kgram	0.8

# Showing similarity distribution graph

Stigmata: Java Birthmark Toolkit

File Help

Control Extract Result 1 Compare Result 2

	org.objectw...										
org.objectw...	1.0	0.2083820...	0.2540641...	0.2170267...	0.2854677...	0.1756839...	0.9994671...	0.1856371...	0.2582982...	0.9509451...	0.28571...
org.objectw...	0.2083820...	1.0	0.4371795...	0.4497971...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.50568...
org.objectw...	0.2540641...	0.4371795...	1.0	0.5334524...	0.6033458...	0.3513760...	0.2513497...	0.3739792...	0.4554655...	0.2062080...	0.61188...
org.objectw...	0.2170267...	0.4497971...	0.5334524...	1.0	0.4563072...	0.3725337...	0.2086428...	0.3464044...	0.4196907...	0.1600248...	0.46219...
org.objectw...	0.2854677...	0.4526200...	0.6033458...	0.4563072...	1.0	0.3281552...	0.2856597...	0.3857966...	0.5356731...	0.2376017...	0.71530...
org.objectw...	0.1756839...	0.3804632...	0.3513760...	0.3725337...	0.3281552...	1.0	0.1730050...	0.4456042...	0.2146785...	0.1540757...	0.33030...
org.objectw...	0.9994671...	0.2077885...	0.2513497...	0.2086428...	0.2856597...	0.1730050...	1.0	0.1861151...	0.2460195...	0.9521610...	0.28525...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	1.0	0.2276778...	0.1657161...	0.43743...
org.objectw...	0.2582982...	0.3031272...	0.4554655...	0.4196907...	0.5356731...	0.2146785...	0.2460195...	0.2276778...	1.0	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.1600248...	0.2376017...	0.1540757...	0.9521610...	0.1657161...	0.1428571...	1.0	0.23678...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...
org.objectw...	0.1653606...	0.3174774...	0.4883315...	0.4464300...	0.3947176...	0.3223314...	0.1605608...	0.3615539...	0.3720975...	0.1191229...	0.44437...
org.objectw...	0.2856259...	0.4526200...	0.6033458...	0.4563072...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.50568...
org.objectw...	0.9998442...	0.2077885...	0.2513497...	0.2086428...	0.2856597...	0.1730050...	0.9998442...	0.1861089...	0.2482733...	0.9520179...	0.28541...
org.objectw...	0.2569725...	0.4526200...	0.6033458...	0.4563072...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.50568...
org.objectw...	0.5714285...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1428571...	0.5714285...	0.0
org.objectw...	0.1480469...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.0849913...	0.1342857...	0.1600248...	0.2376017...	0.1540757...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.1291459...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.5156606...	0.1653606...	0.3174774...	0.4883315...	0.4464300...	0.3947176...
org.objectw...	0.1259385...	0.1653606...	0.3174774...	0.4883315...	0.4464300...	0.3947176...	0.3223314...	0.1605608...	0.3615539...	0.3720975...	0.1191229...

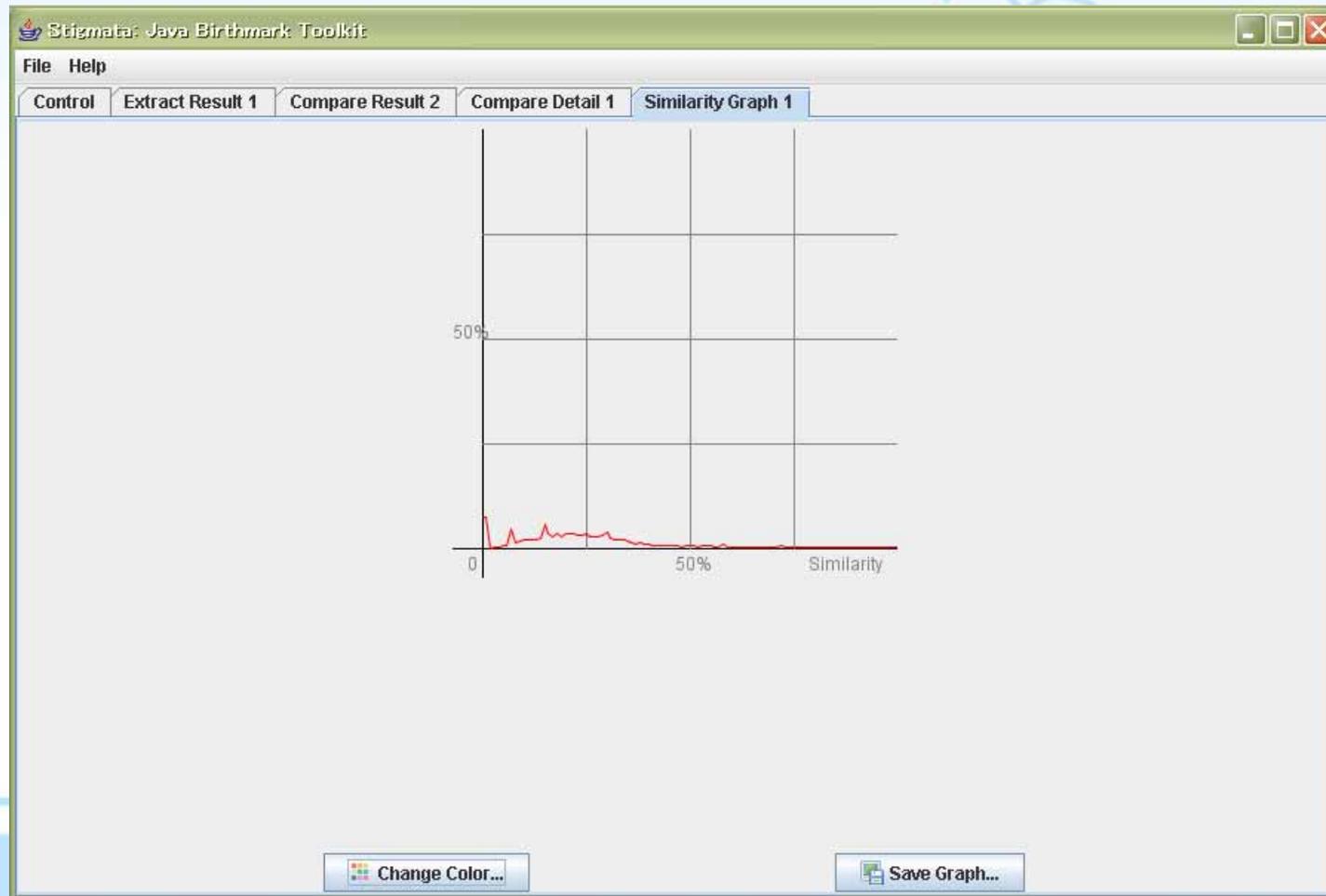
Press "Graph" button, then similarity distribution graph is shown in new tab.

# of classes: 290  
Comparison count: 21025  
Distinction ratio: 0.9928180737217598

Similarity  
Average: 0.24590789827268364  
Minimum: 0.0  
Maximum: 1.0

Buttons: Save, Update Cell Color, Graph, Obfuscation..., Comparing guessed pair

# Similarity distribution graph



# Showing mapping of classes

The screenshot displays the Stigmata: Java Birthmark Toolkit interface. At the top, there are tabs for 'Control', 'Extract Result 1', and 'Compare Result 2'. Below these is a large table with columns representing different object identifiers and their corresponding values. A text box with a white background and black border is overlaid on the table, containing the following text: 'Press arrow button besides of `Graph` button and popup menu is shown, select `Distance Mapping` menu, then distance mapping is shown in new tab.' An arrow points from the text box to the 'Graph' button in the bottom toolbar. The 'Graph' button is highlighted with a red circle. Below the table, there are summary statistics: '# of classes' (290), 'Comparison count' (21025), and 'Distinction ratio' (0.9928180737217598). Under the 'Similarity' section, there are fields for 'Average' (0.24590789827268364), 'Minimum' (0.0), and 'Maximum' (1.0). The bottom toolbar includes buttons for 'Save', 'Update Cell Color', 'Graph', 'Obfuscation...', and 'Comparing guessed pair'.

Control	Extract Result 1	Compare Result 2	...	...	...	...	...	...	...	...	...
org.objectw...	1.0	0.2083820...	0.2540641...	0.2170267...	0.2854677...	0.1756839...	0.9994671...	0.1856371...	0.2582982...	0.9509451...	0.28571...
org.objectw...	0.2083820...	1.0	0.4371795...	0.4497971...	0.4526200...	0.3804632...	0.2077885...	0.5005676...	0.3031272...	0.1762578...	0.50568...
org.objectw...	0.2540641...	0.4371795...	1.0	0.5334524...	0.6033458...	0.3513760...	0.2513497...	0.3739792...	0.4554655...	0.2062080...	0.61186...
org.objectw...	0.2170267...	0.4497971...	0.5334524...	1.0	0.4563072...	0.3725337...	0.2086428...	0.3464044...	0.4196907...	0.1600248...	0.46219...
org.objectw...	0.2854677...	0.4526200...	0.6033458...	0.4563072...	1.0	0.3281552...	0.2856597...	0.3857966...	0.5356731...	0.2376017...	0.71530...
org.objectw...	0.1756839...	0.3804632...	0.3513760...	0.3725337...	0.3281552...	1.0	0.1730050...	0.4456042...	0.2146785...	0.1540757...	0.33030...
org.objectw...	0.9994671...	0.2077885...	0.2513497...	0.2086428...	0.2856597...	0.1730050...	1.0	0.1861151...	0.2460195...	0.9521610...	0.28525...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	1.0	0.2276778...	0.1657161...	0.43743...
org.objectw...	0.2582982...	0.3031272...	0.4554655...	0.4196907...	0.5356731...	0.2146785...	0.2460195...	0.2276778...	1.0	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.6033458...	0.4563072...	0.3281552...	0.1540757...	0.1657161...	0.1428571...	1.0	0.23678...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	0.2276778...	0.1657161...	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.6033458...	0.4563072...	0.3281552...	0.1540757...	0.1657161...	0.1428571...	1.0	0.23678...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	0.2276778...	0.1657161...	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.6033458...	0.4563072...	0.3281552...	0.1540757...	0.1657161...	0.1428571...	1.0	0.23678...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...
org.objectw...	0.1856371...	0.5005676...	0.3739792...	0.3464044...	0.3857966...	0.4456042...	0.1861151...	0.2276778...	0.1657161...	0.1428571...	0.54311...
org.objectw...	0.9509451...	0.1762578...	0.2062080...	0.6033458...	0.4563072...	0.3281552...	0.1540757...	0.1657161...	0.1428571...	1.0	0.23678...
org.objectw...	0.2857113...	0.5056838...	0.6118689...	0.4621988...	0.7153055...	0.3303085...	0.2852570...	0.4374367...	0.5431114...	0.2367852...	1.0
org.objectw...	0.3999999...	0.4235606...	0.5804675...	0.4940557...	0.6804837...	0.3137796...	0.3921773...	0.3456807...	0.7994279...	0.3391104...	0.70302...
org.objectw...	0.2851997...	0.4067922...	0.4537935...	0.4418148...	0.4958790...	0.4279972...	0.2836234...	0.3630889...	0.3561023...	0.2344368...	0.51566...

# of classes: 290  
Comparison count: 21025  
Distinction ratio: 0.9928180737217598

Similarity  
Average: 0.24590789827268364  
Minimum: 0.0  
Maximum: 1.0

Buttons: Save, Update Cell Color, Graph, Obfuscation..., Comparing guessed pair

# Distance mapping graph



# Showing mapping of classes

The screenshot displays the Stigmata: Java Birthmark Toolkit interface. At the top, there are tabs for 'Control', 'Extract Result 1', and 'Compare Result 2'. Below these is a large table with columns representing different birthmarks. The table contains numerical values, with some cells highlighted in red, indicating specific results or errors. A text box with an arrow points to the 'Comparing guessed pair' button in the bottom right corner of the interface. Below the table, there are summary statistics: '# of classes' (290), 'Comparison count' (21025), and 'Distinction ratio' (0.9928180737217598). Under the 'Similarity' section, 'Average' is 0.24590789827268364, 'Minimum' is 0.0, and 'Maximum' is 1.0. The 'Comparing guessed pair' button is circled in red.

Press ``Comparing guessed pair`` button, showing the result of comparing birthmarks by same name pair from X and Y axis.

# of classes: 290  
Comparison count: 21025  
Distinction ratio: 0.9928180737217598

Similarity  
Average: 0.24590789827268364  
Minimum: 0.0  
Maximum: 1.0

Buttons: Save, Update Cell Color, Graph, Obfuscation..., Comparing guessed pair

# Showing mapping of classes

The screenshot shows the Stigmata: Java Birthmark Toolkit interface. The main window displays a table with three columns: Target 1, Target 2, and Similarity. All entries in the table have a similarity score of 1.0. The table is scrollable, and the bottom of the window features a summary section for similarity statistics and three buttons: Save, Update Cell Color, and Obfuscation...

Control	Extract Result 1	Compare Result 2	Compare Detail 1	Similarity Graph 1	MDS Graph 1	Compare Pair 1
Target 1		Target 2		Similarity		
org.objectweb.asm.AnnotationVisitor	org.objectweb.asm.AnnotationVisitor	org.objectweb.asm.AnnotationVisitor	org.objectweb.asm.AnnotationVisitor	1.0		
org.objectweb.asm.AnnotationWriter	org.objectweb.asm.AnnotationWriter	org.objectweb.asm.AnnotationWriter	org.objectweb.asm.AnnotationWriter	1.0		
org.objectweb.asm.Attribute	org.objectweb.asm.Attribute	org.objectweb.asm.Attribute	org.objectweb.asm.Attribute	1.0		
org.objectweb.asm.ByteVector	org.objectweb.asm.ByteVector	org.objectweb.asm.ByteVector	org.objectweb.asm.ByteVector	1.0		
org.objectweb.asm.ClassAdapter	org.objectweb.asm.ClassAdapter	org.objectweb.asm.ClassAdapter	org.objectweb.asm.ClassAdapter	1.0		
org.objectweb.asm.ClassReader	org.objectweb.asm.ClassReader	org.objectweb.asm.ClassReader	org.objectweb.asm.ClassReader	1.0		
org.objectweb.asm.ClassVisitor	org.objectweb.asm.ClassVisitor	org.objectweb.asm.ClassVisitor	org.objectweb.asm.ClassVisitor	1.0		
org.objectweb.asm.ClassWriter	org.objectweb.asm.ClassWriter	org.objectweb.asm.ClassWriter	org.objectweb.asm.ClassWriter	1.0		
org.objectweb.asm.Edge	org.objectweb.asm.Edge	org.objectweb.asm.Edge	org.objectweb.asm.Edge	1.0		
org.objectweb.asm.FieldVisitor	org.objectweb.asm.FieldVisitor	org.objectweb.asm.FieldVisitor	org.objectweb.asm.FieldVisitor	1.0		
org.objectweb.asm.FieldWriter	org.objectweb.asm.FieldWriter	org.objectweb.asm.FieldWriter	org.objectweb.asm.FieldWriter	1.0		
org.objectweb.asm.Handler	org.objectweb.asm.Handler	org.objectweb.asm.Handler	org.objectweb.asm.Handler	1.0		
org.objectweb.asm.Item	org.objectweb.asm.Item	org.objectweb.asm.Item	org.objectweb.asm.Item	1.0		
org.objectweb.asm.Label	org.objectweb.asm.Label	org.objectweb.asm.Label	org.objectweb.asm.Label	1.0		
org.objectweb.asm.MethodAdapter	org.objectweb.asm.MethodAdapter	org.objectweb.asm.MethodAdapter	org.objectweb.asm.MethodAdapter	1.0		
org.objectweb.asm.MethodVisitor	org.objectweb.asm.MethodVisitor	org.objectweb.asm.MethodVisitor	org.objectweb.asm.MethodVisitor	1.0		
org.objectweb.asm.MethodWriter	org.objectweb.asm.MethodWriter	org.objectweb.asm.MethodWriter	org.objectweb.asm.MethodWriter	1.0		
org.objectweb.asm.Opcodes	org.objectweb.asm.Opcodes	org.objectweb.asm.Opcodes	org.objectweb.asm.Opcodes	1.0		
org.objectweb.asm.Type	org.objectweb.asm.Type	org.objectweb.asm.Type	org.objectweb.asm.Type	1.0		
org.objectweb.asm.attrs.StackMapAttribute	org.objectweb.asm.attrs.StackMapAttribute	org.objectweb.asm.attrs.StackMapAttribute	org.objectweb.asm.attrs.StackMapAttribute	1.0		
org.objectweb.asm.attrs.StackMapFrame	org.objectweb.asm.attrs.StackMapFrame	org.objectweb.asm.attrs.StackMapFrame	org.objectweb.asm.attrs.StackMapFrame	1.0		
org.objectweb.asm.attrs.StackMapTableAttribute	org.objectweb.asm.attrs.StackMapTableAttribute	org.objectweb.asm.attrs.StackMapTableAttribute	org.objectweb.asm.attrs.StackMapTableAttribute	1.0		
org.objectweb.asm.attrs.StackMapType	org.objectweb.asm.attrs.StackMapType	org.objectweb.asm.attrs.StackMapType	org.objectweb.asm.attrs.StackMapType	1.0		
org.objectweb.asm.commons.AdviceAdapter	org.objectweb.asm.commons.AdviceAdapter	org.objectweb.asm.commons.AdviceAdapter	org.objectweb.asm.commons.AdviceAdapter	1.0		
org.objectweb.asm.commons.EmptyVisitor	org.objectweb.asm.commons.EmptyVisitor	org.objectweb.asm.commons.EmptyVisitor	org.objectweb.asm.commons.EmptyVisitor	1.0		

Similarity  
Average: 1.0    Maximum: 1.0    Minimum: 1.0

Buttons: Save, Update Cell Color, Obfuscation...