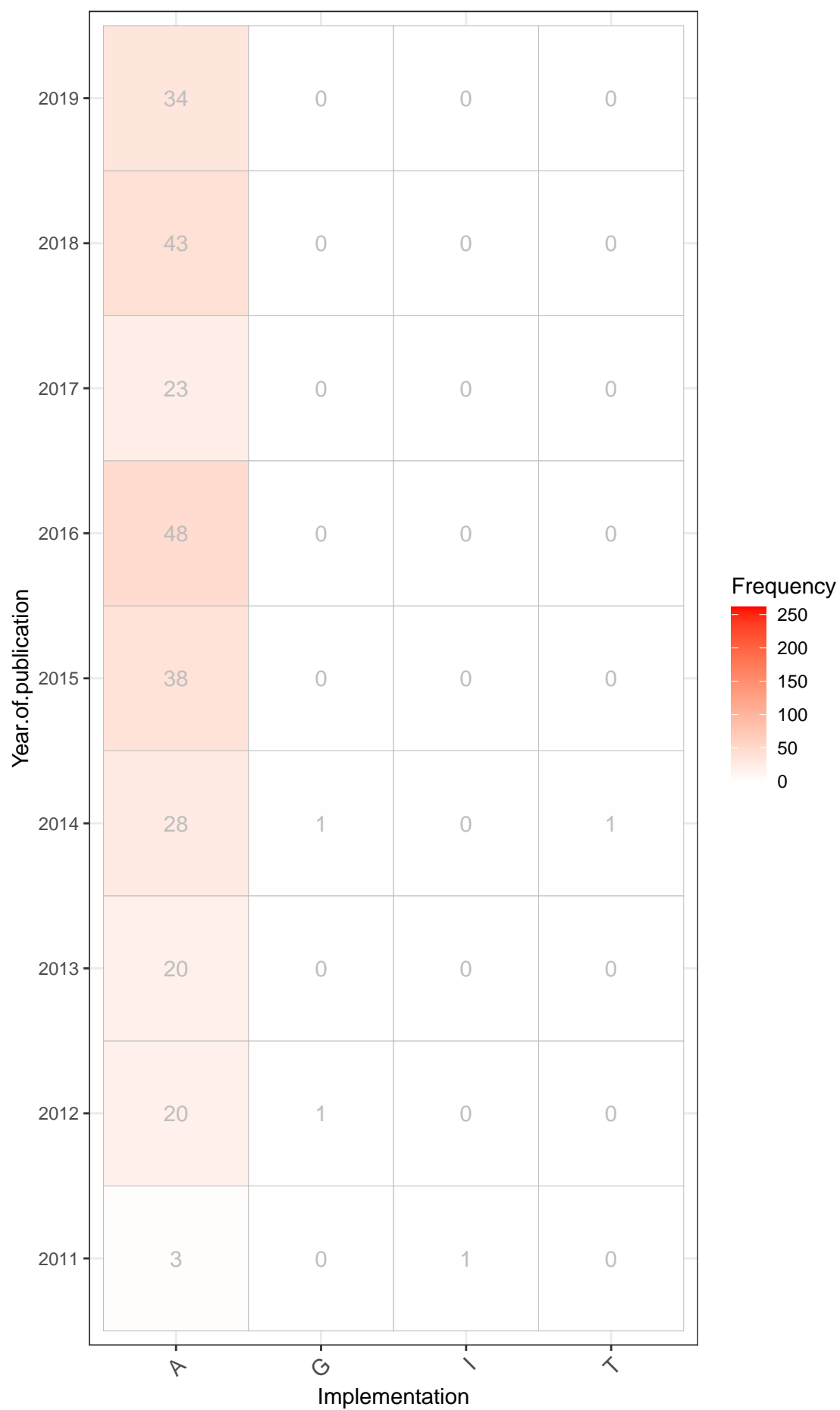
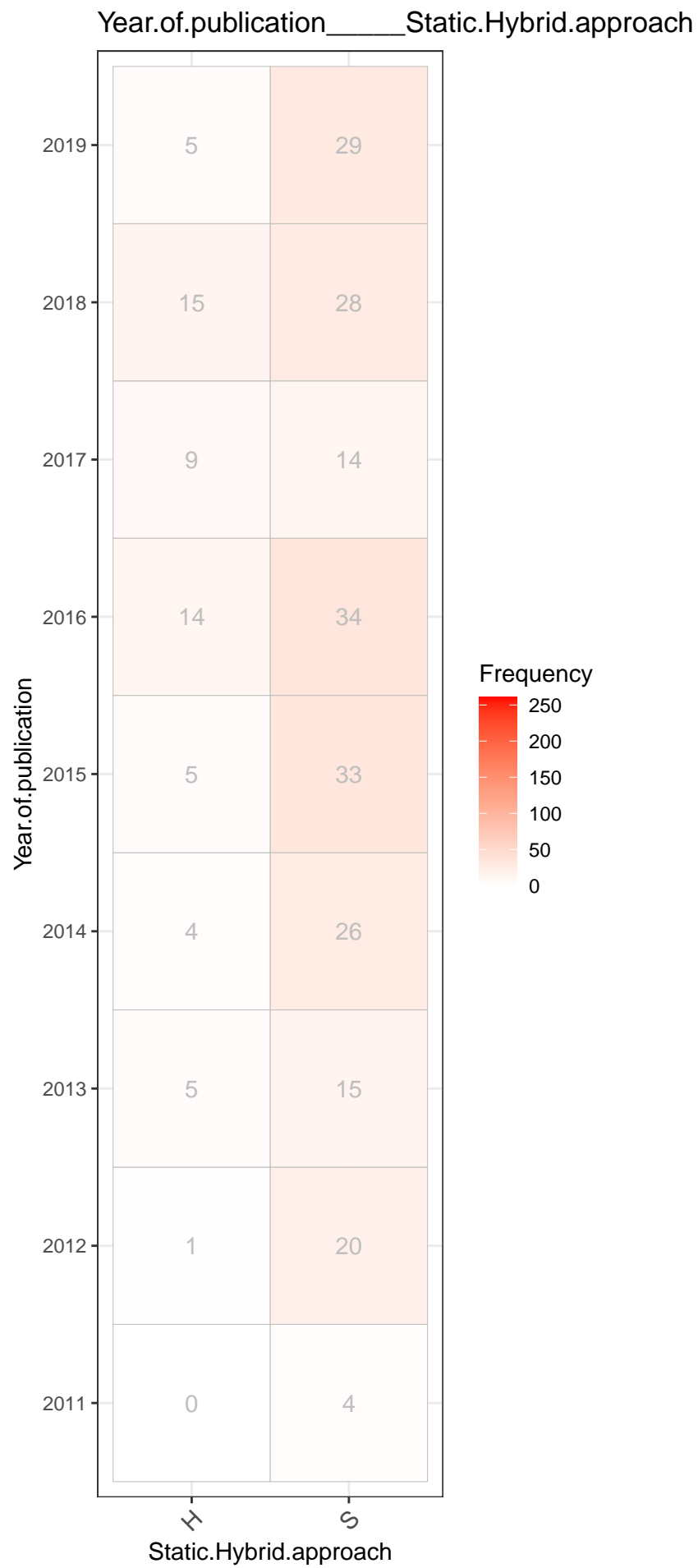
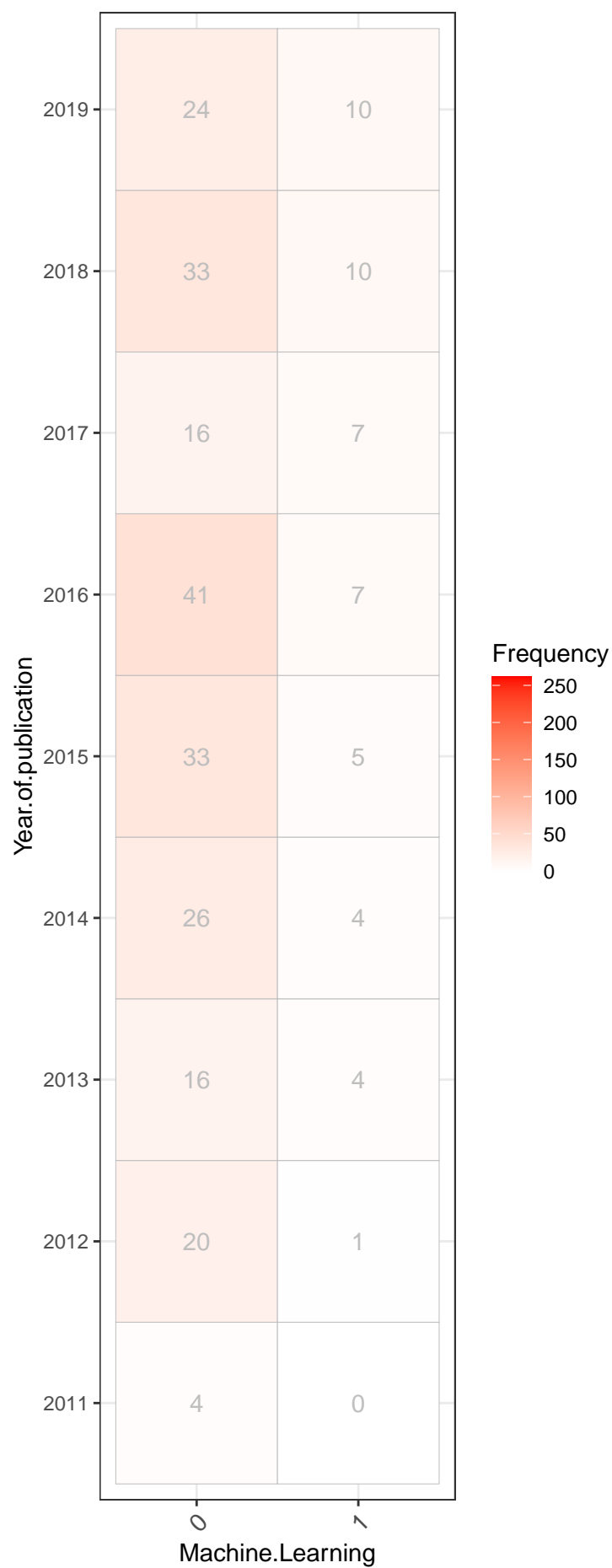


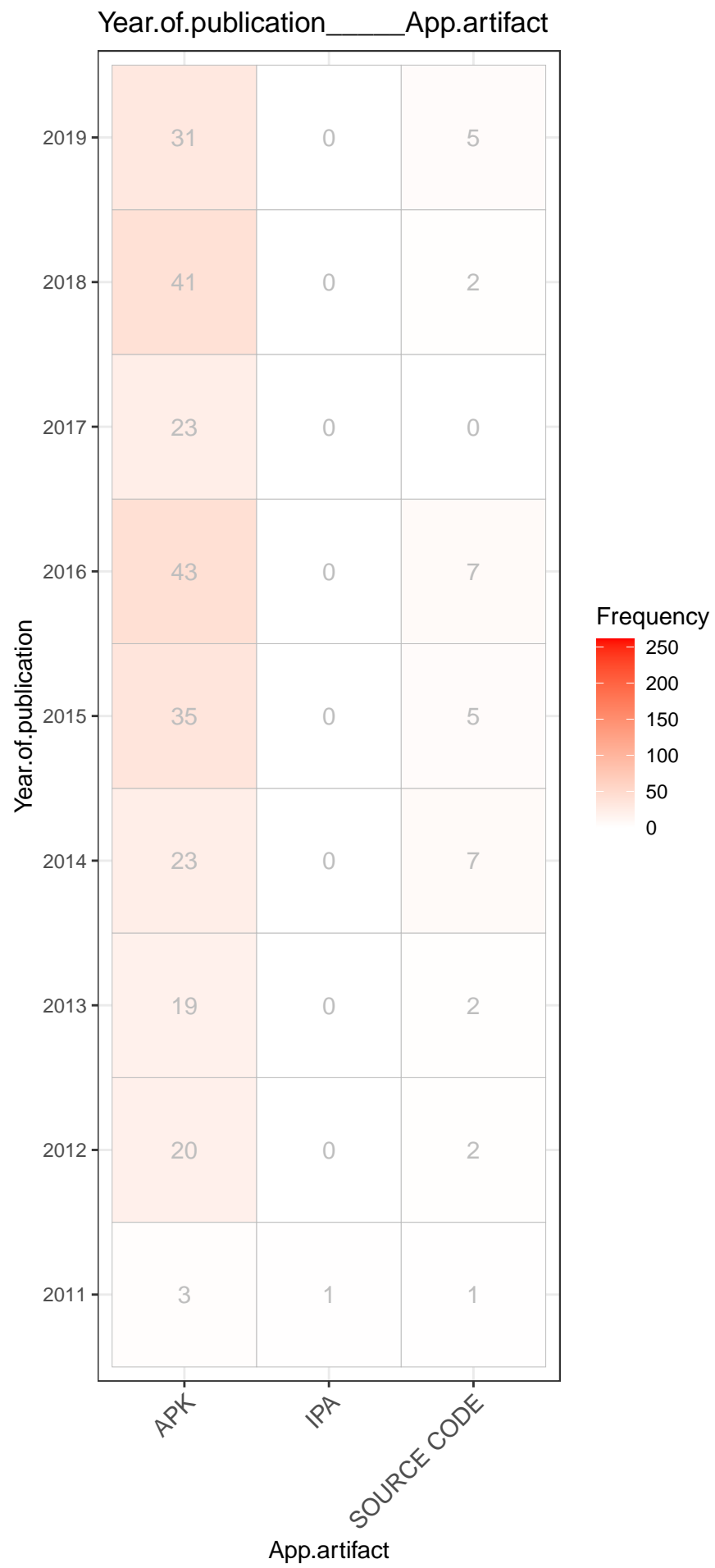
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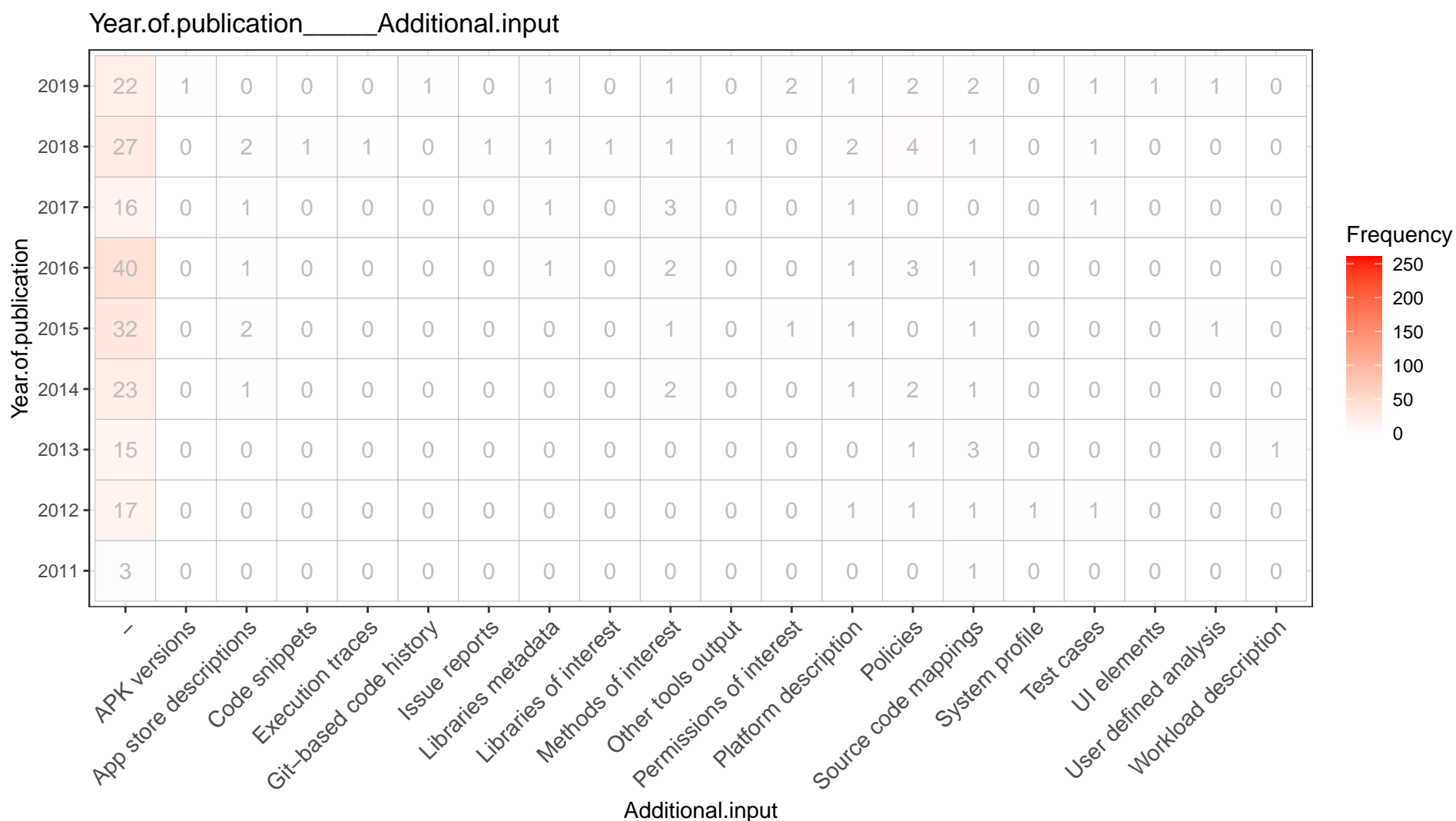


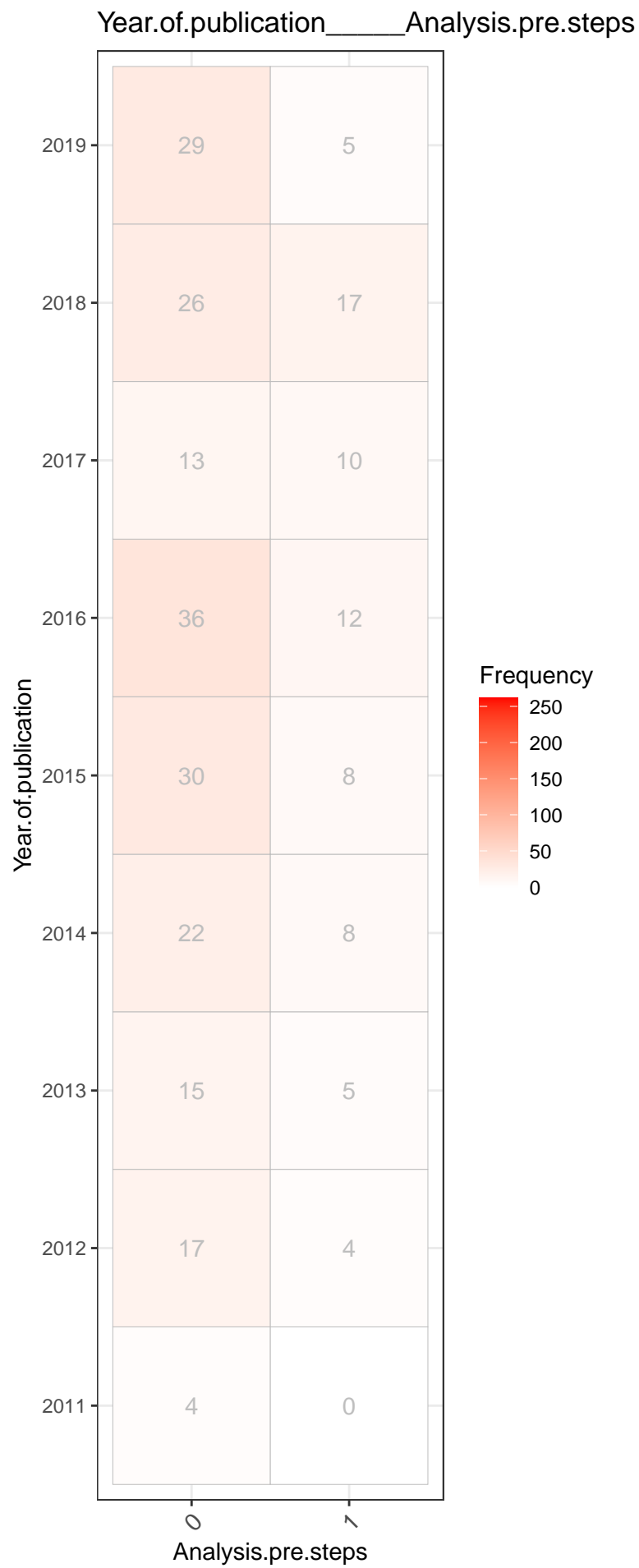


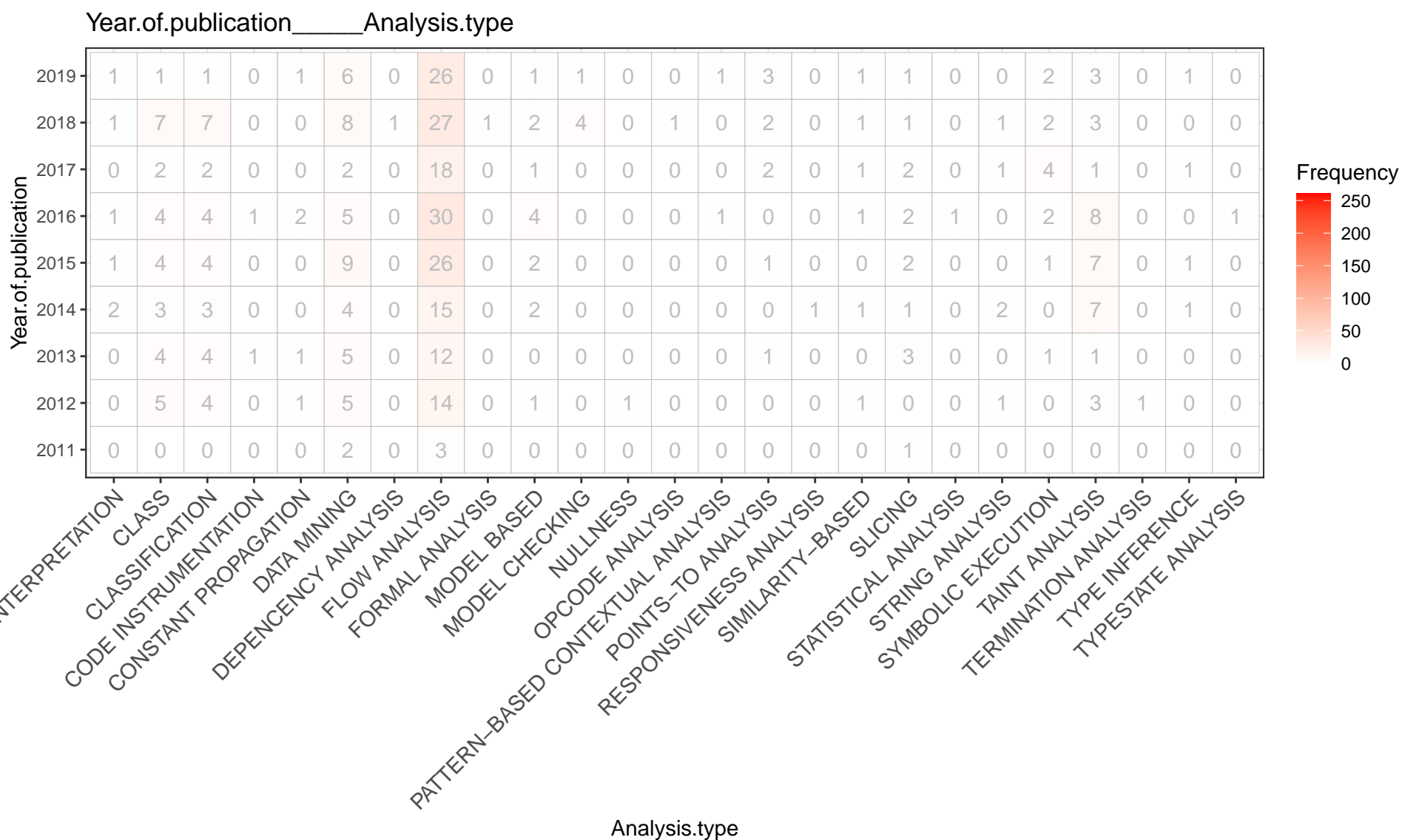
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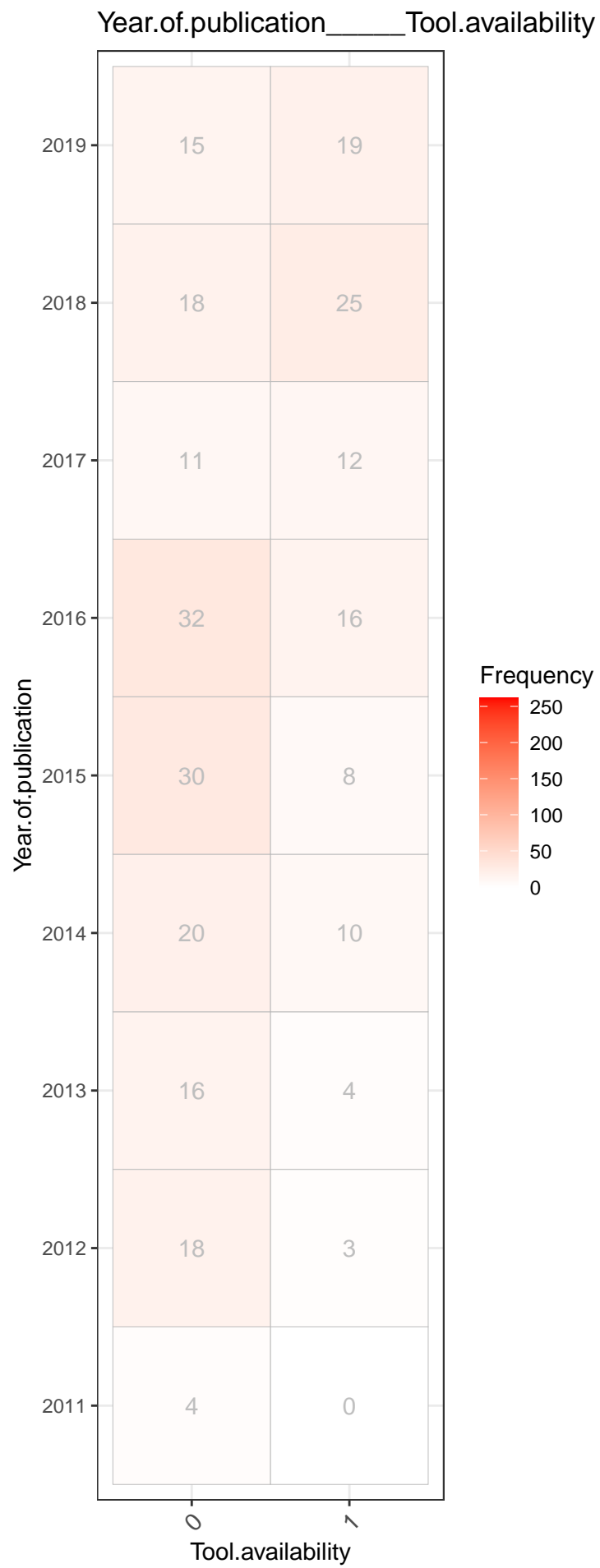




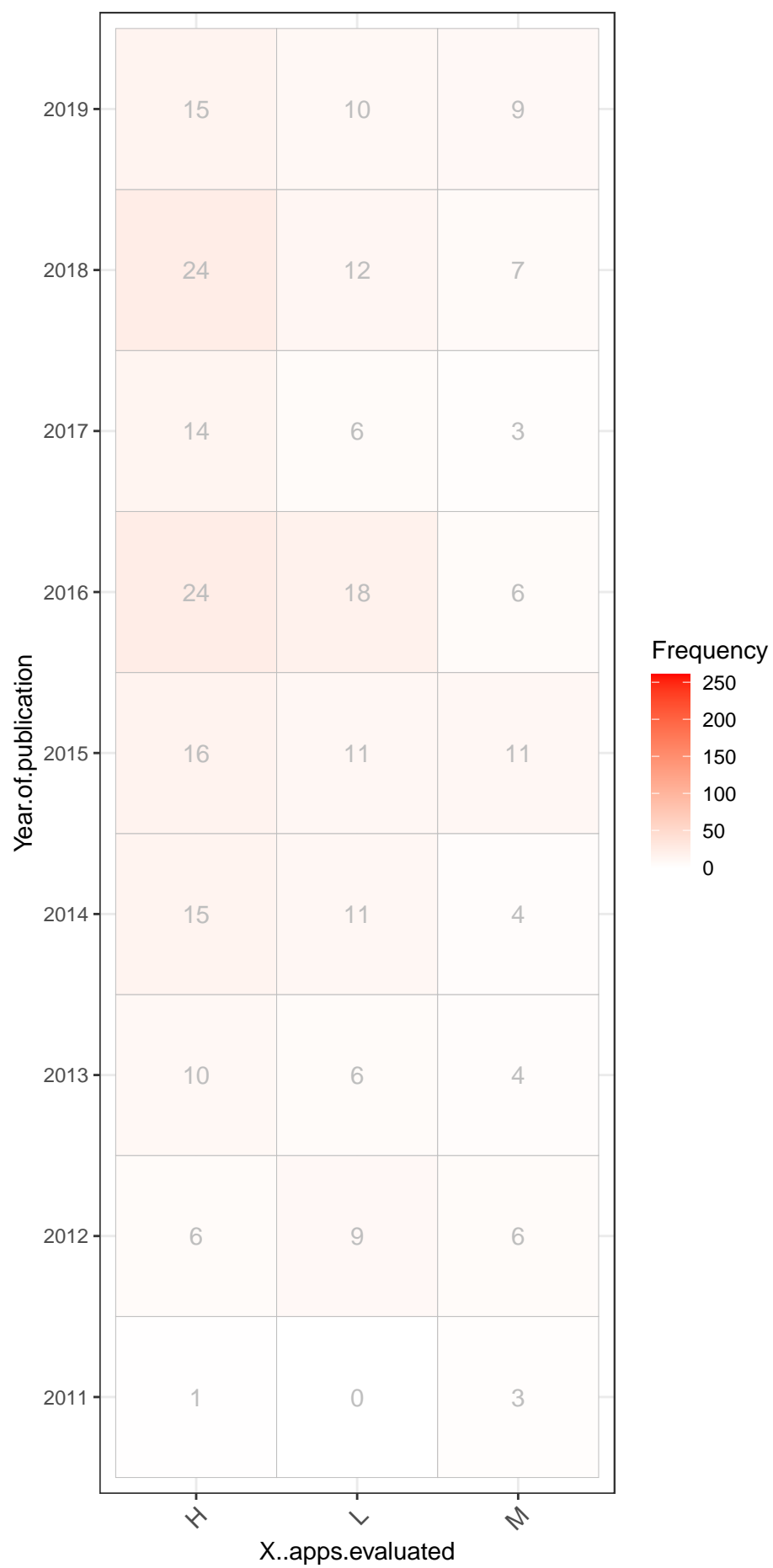


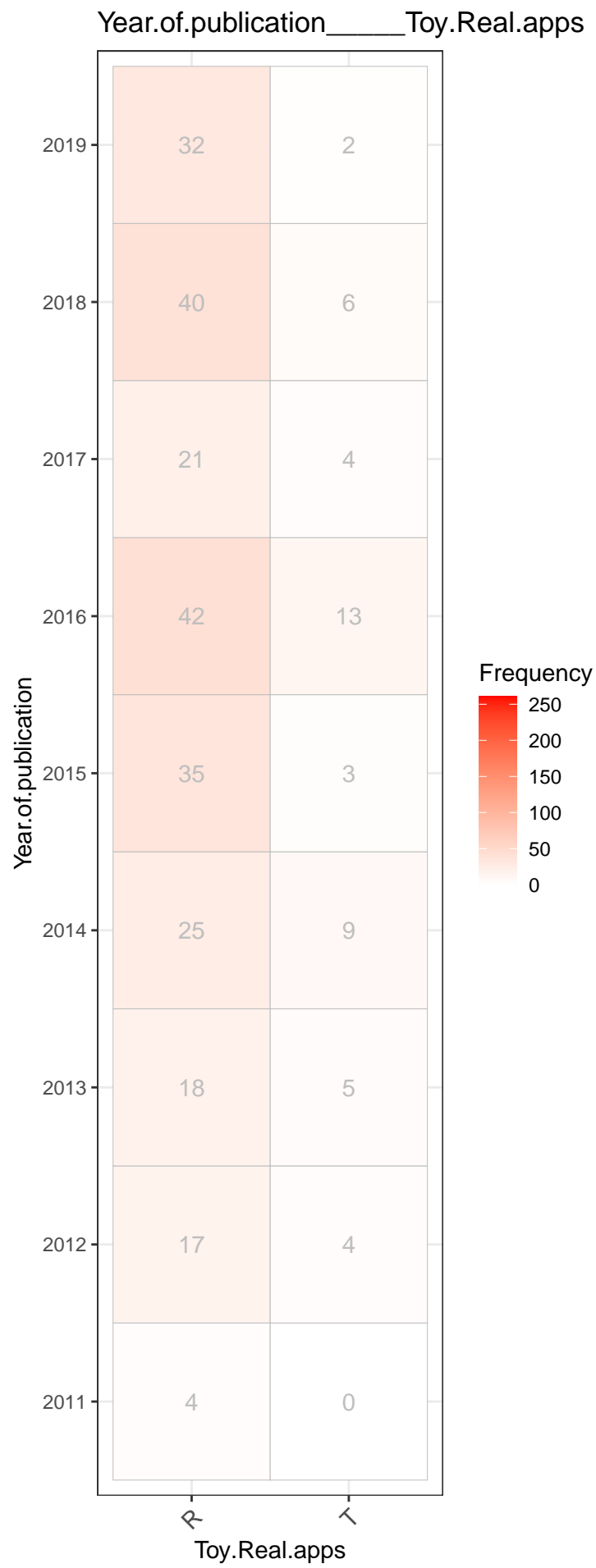


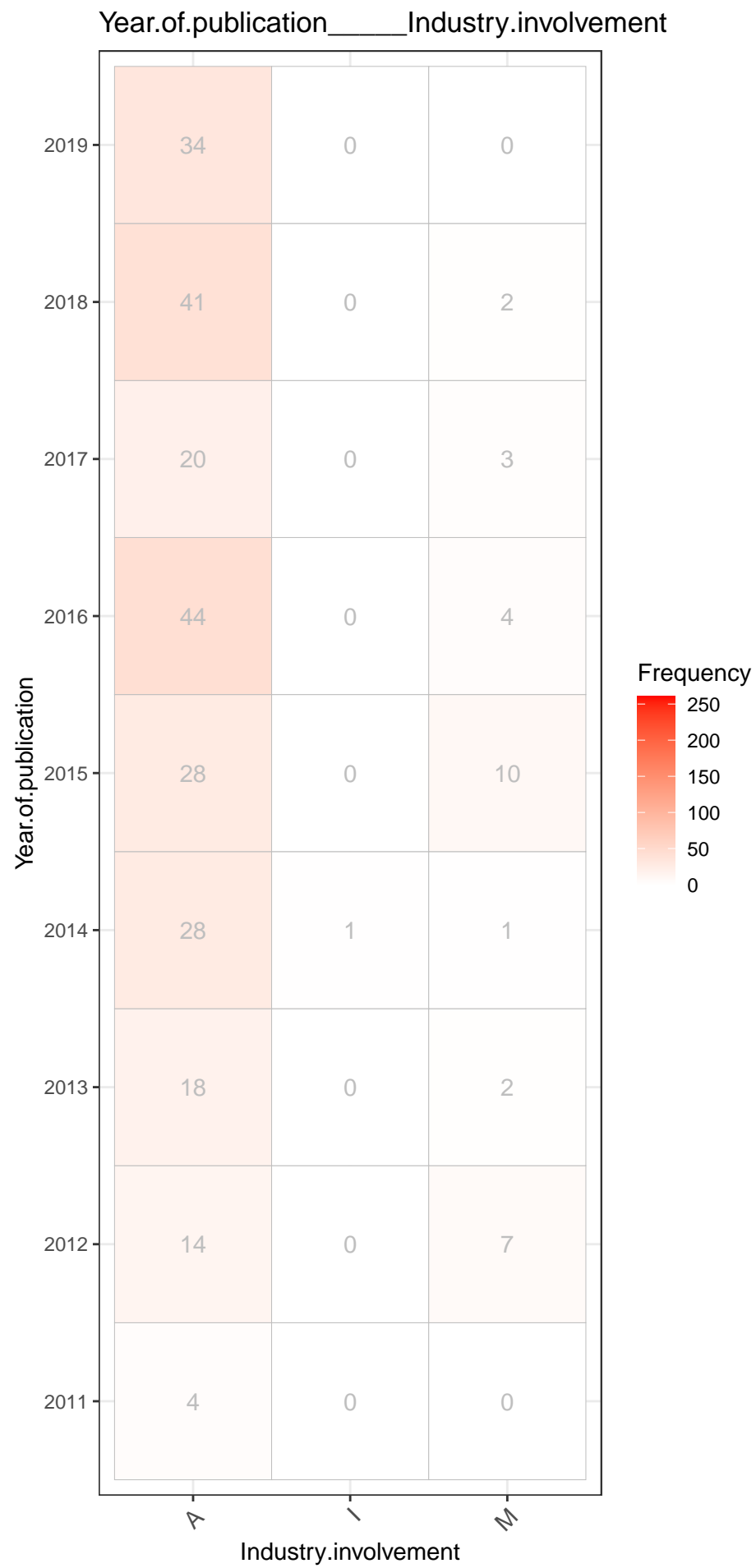


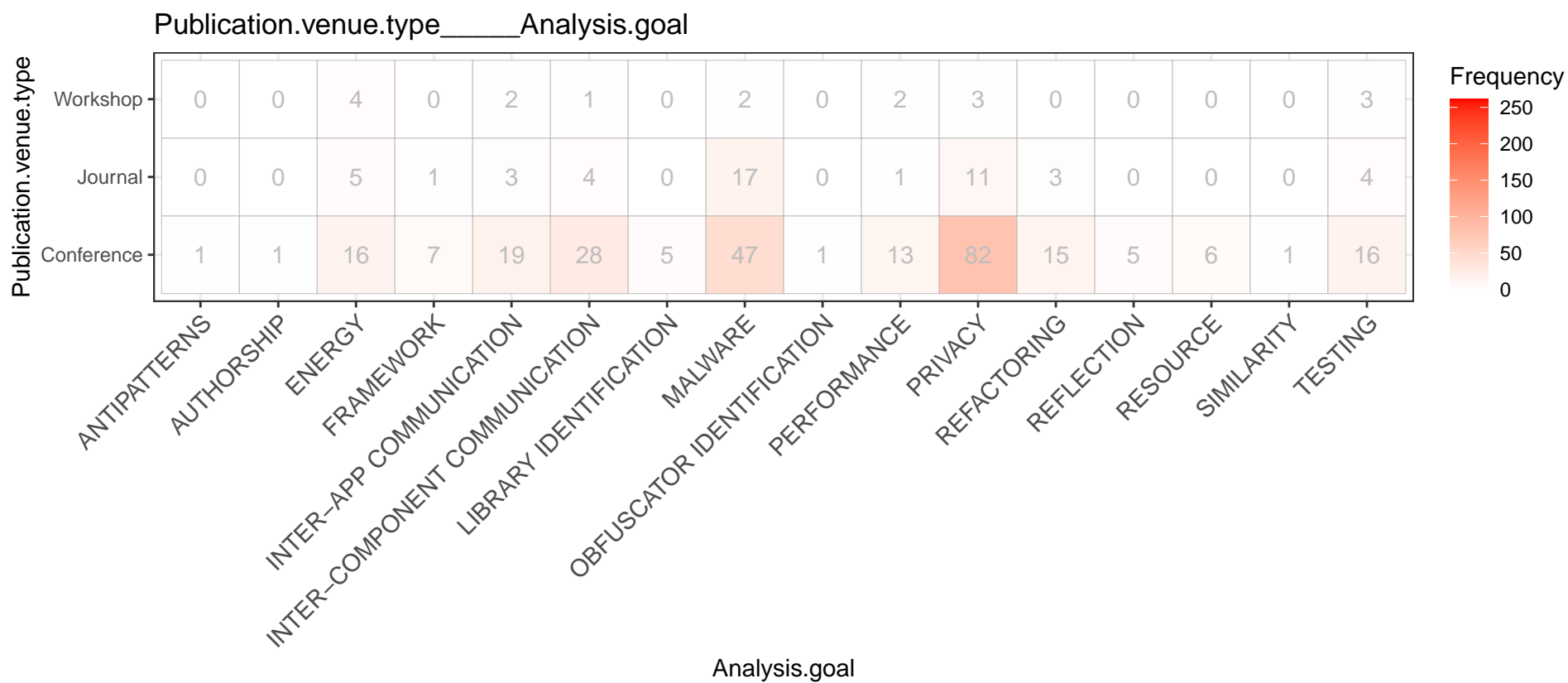


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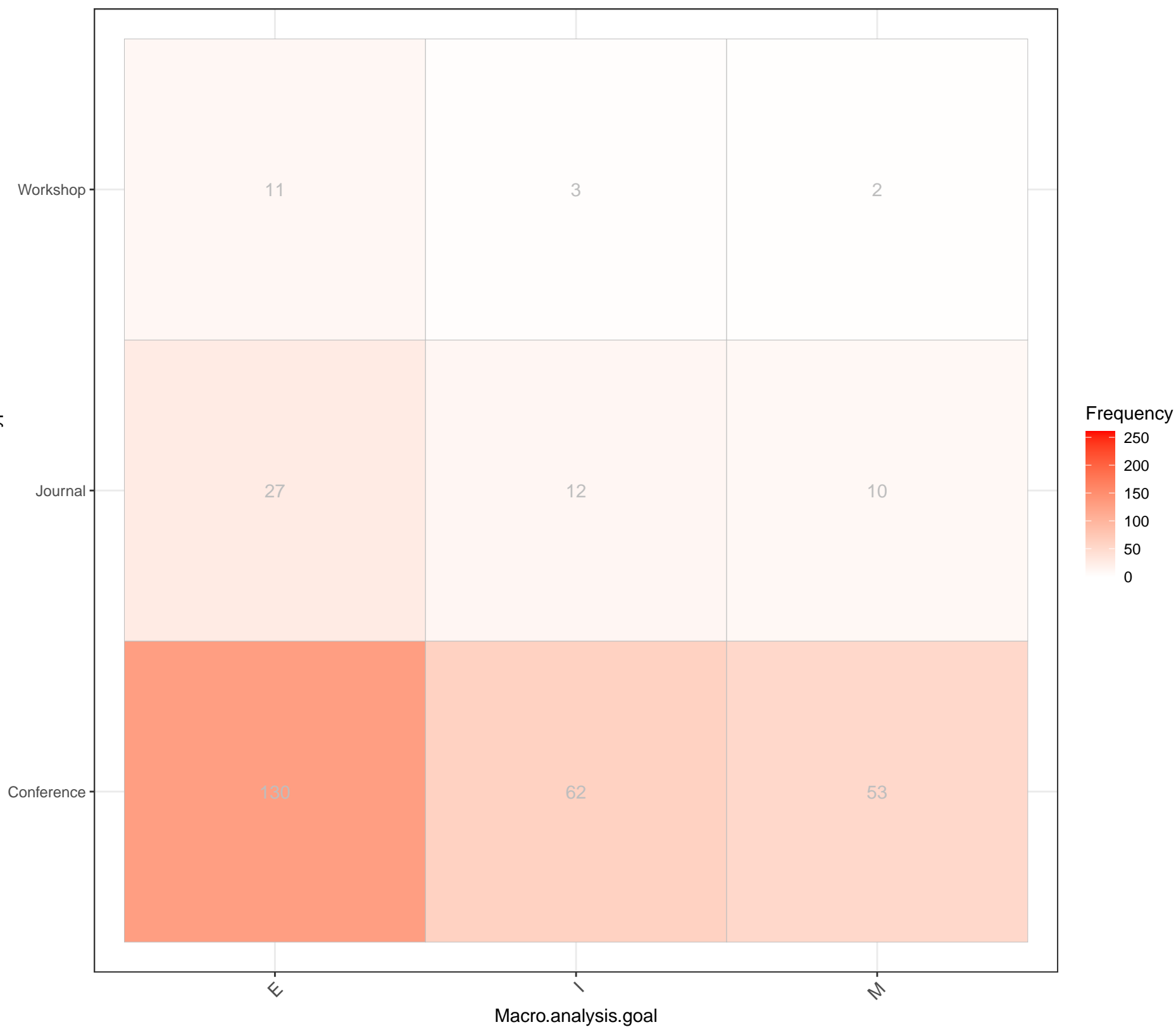




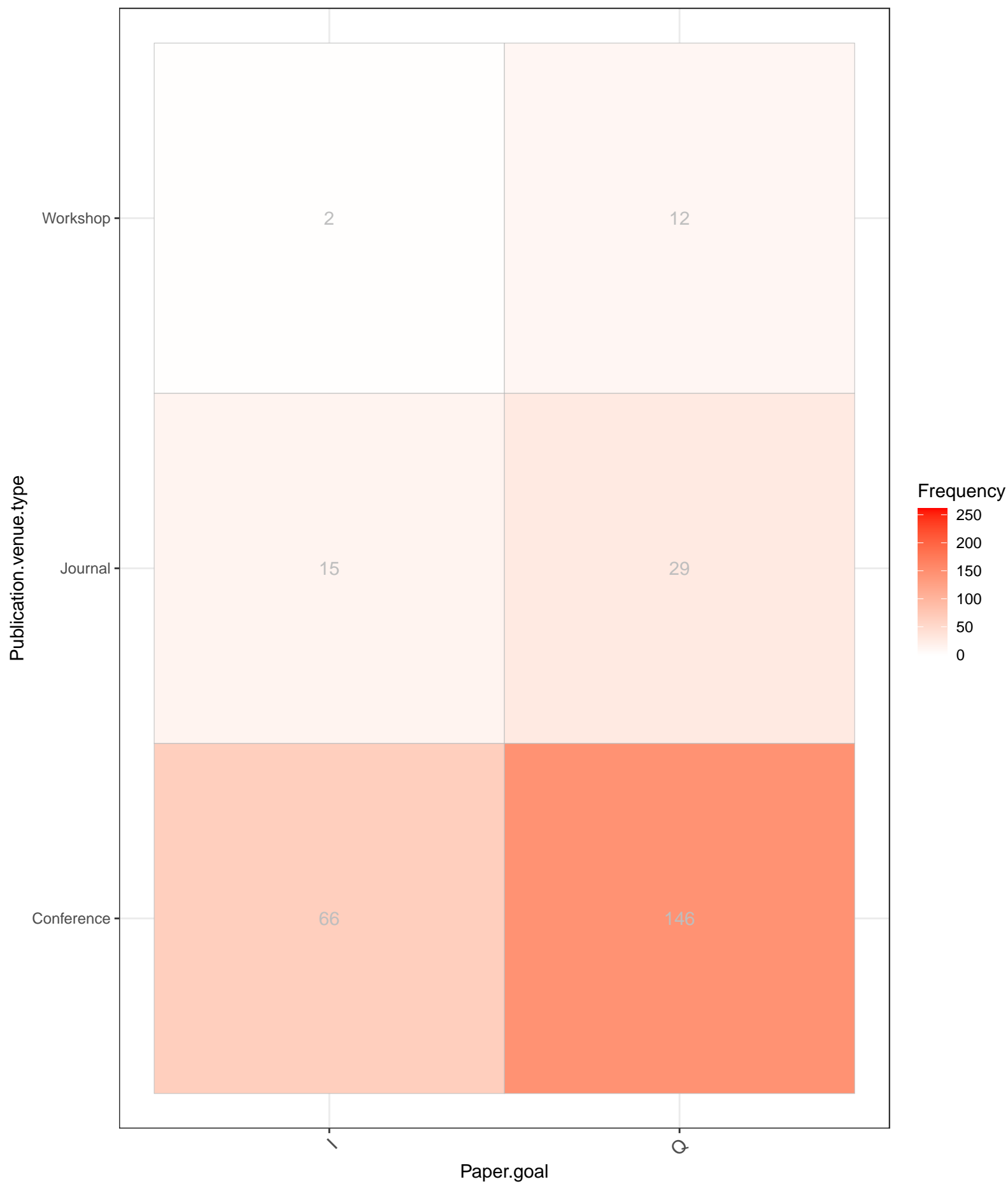




Publication.venue.type_____Macro.analysis.goal



Publication.venue.type_____Paper.goal



Publication.venue.type_____Platform.specific

Publication.venue.type

Workshop

13

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Journal

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Conference

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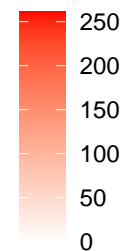
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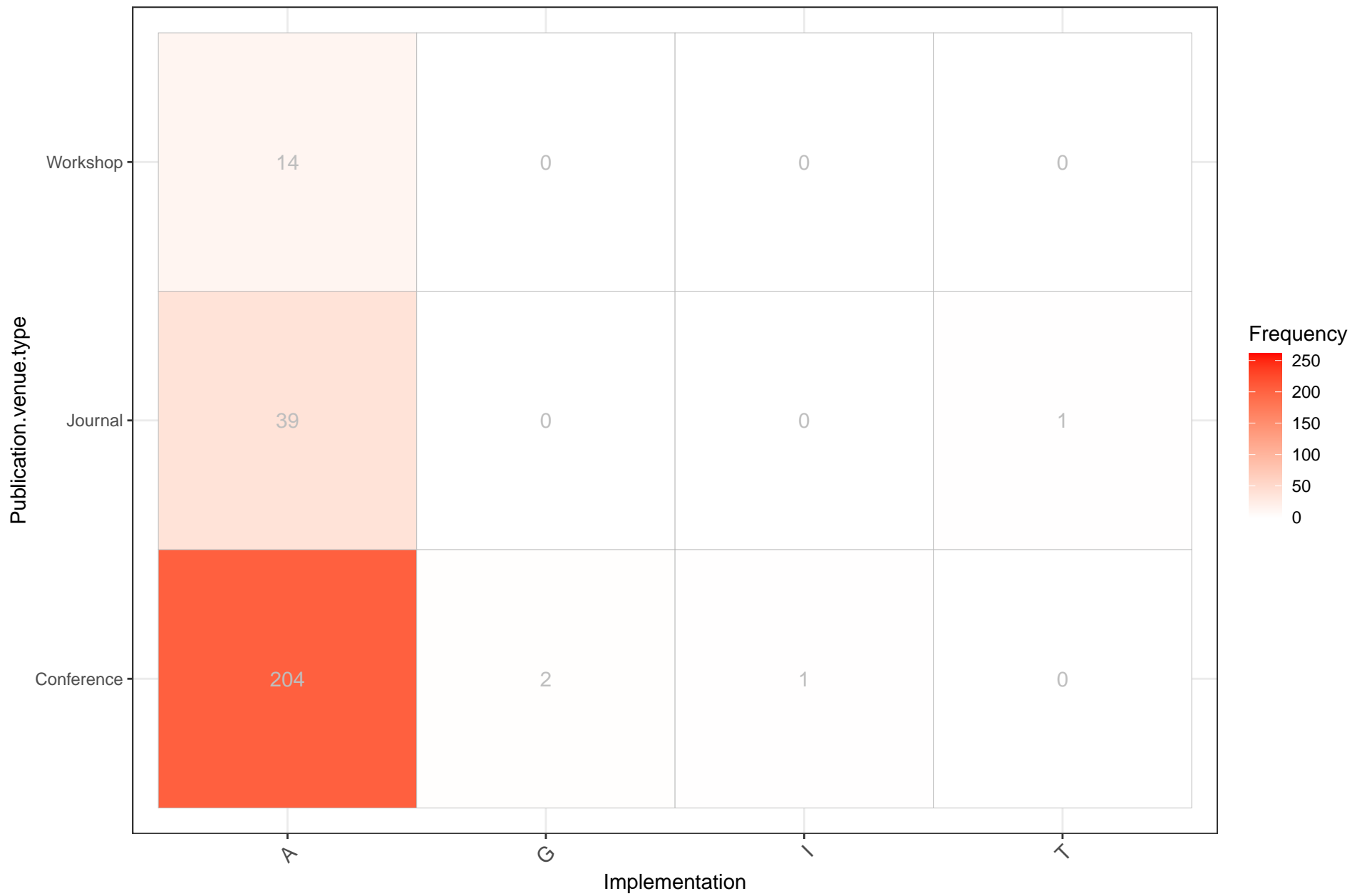
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Platform.specific

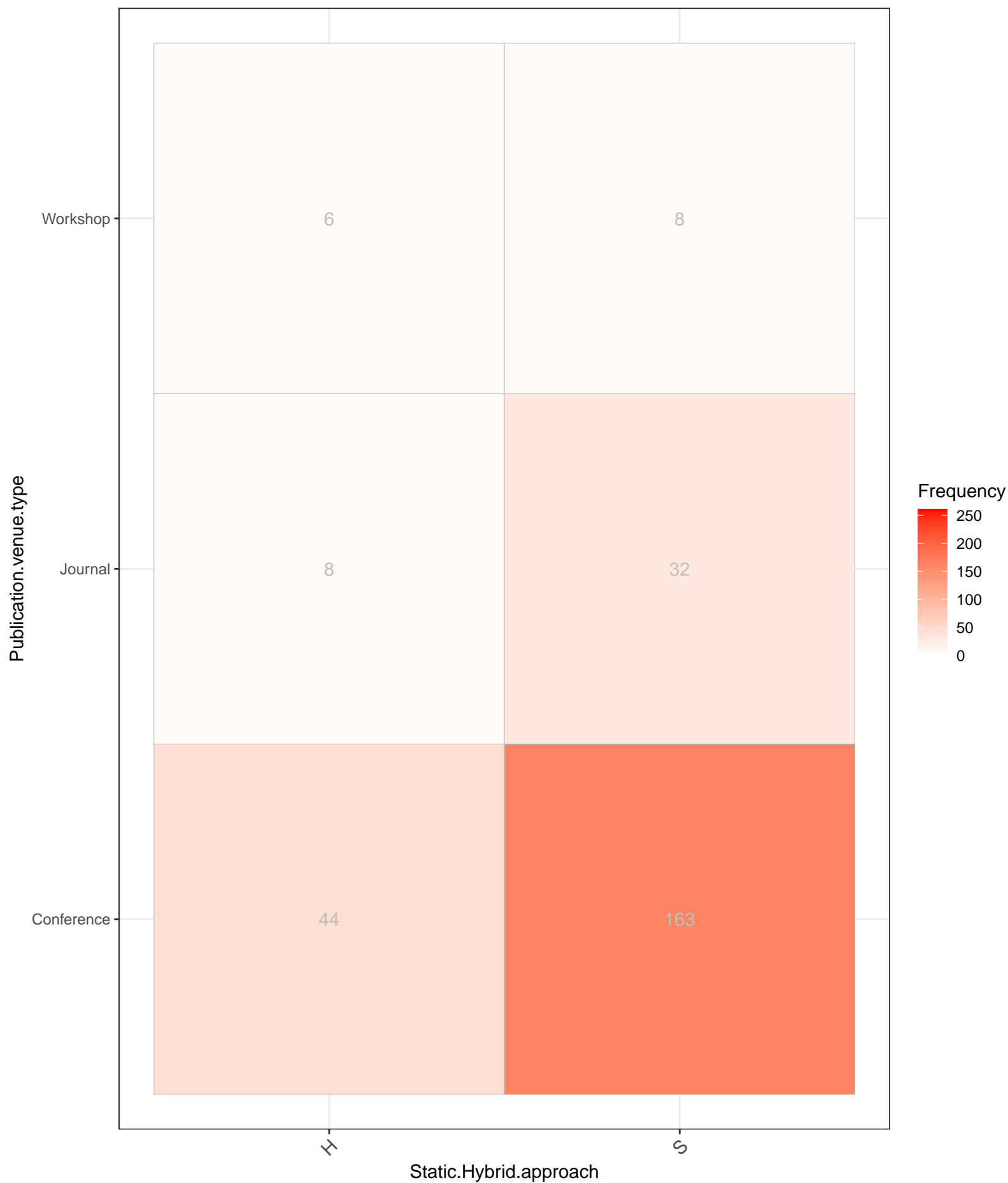
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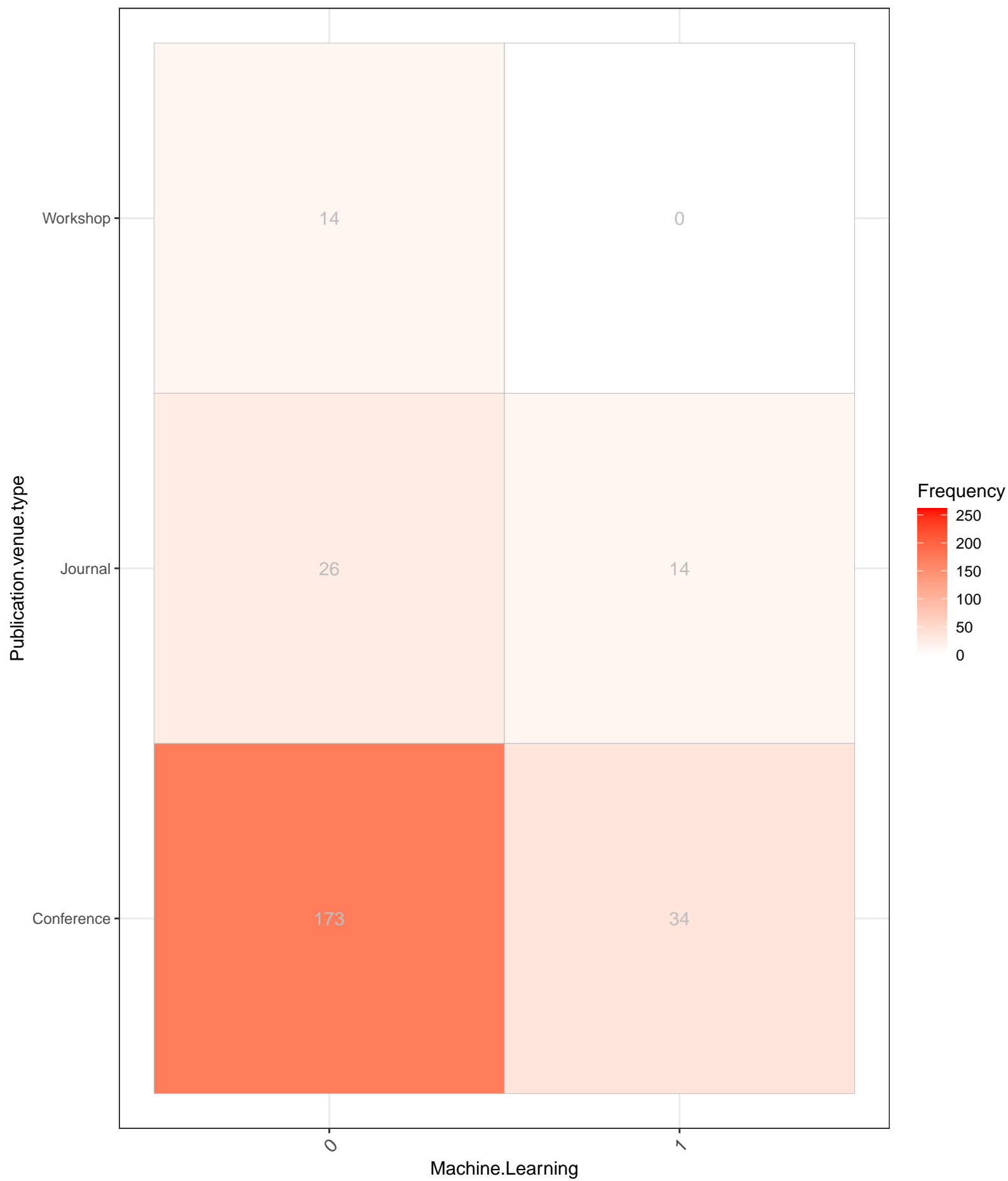
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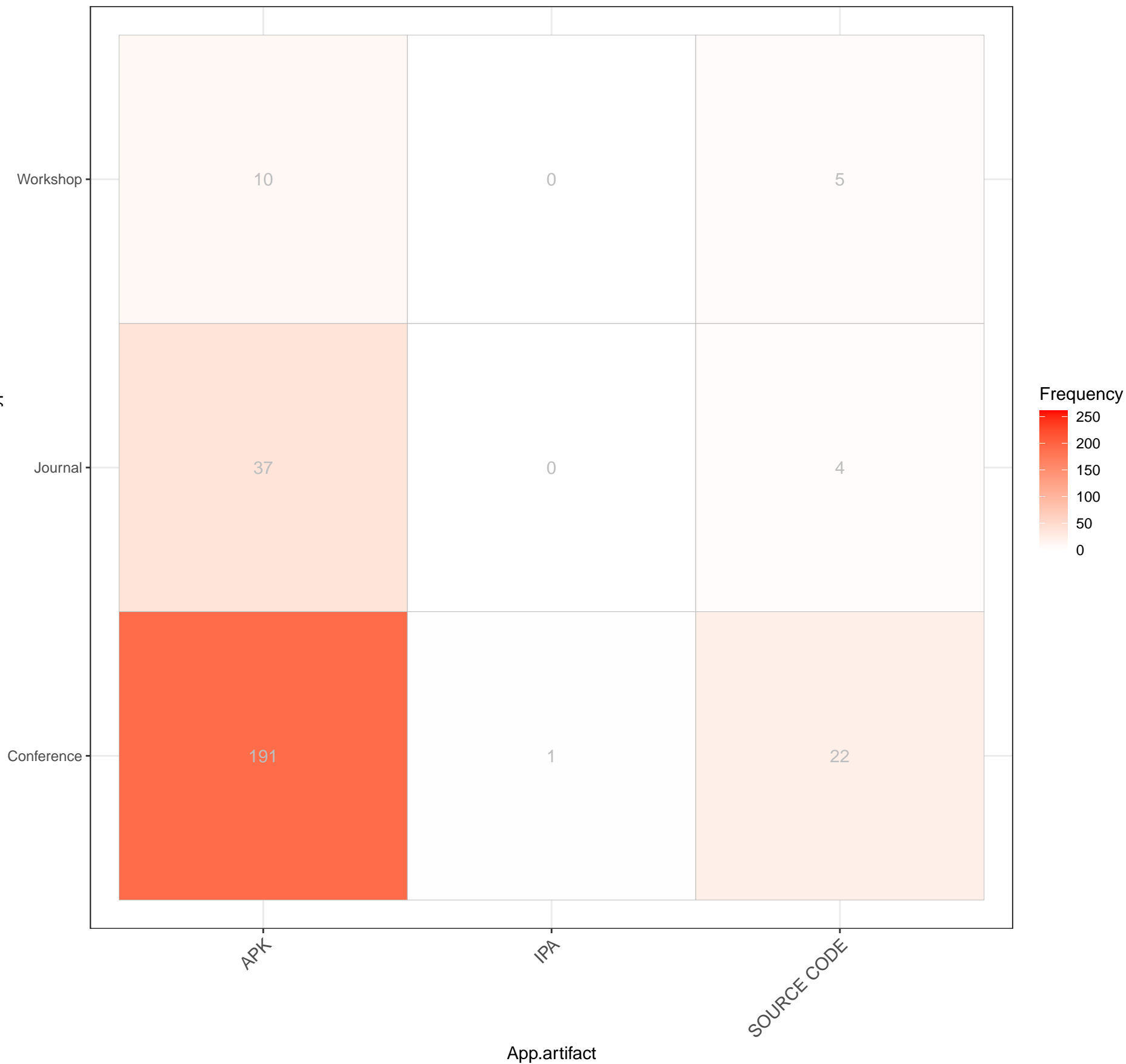
Publication.venue.type_____Static.Hybrid.approach



Publication.venue.type_____Machine.Learning



Publication.venue.type_____App.artifact



Publication.venue.type

Publication.venue.type_____Additional.input

Workshop

Journal

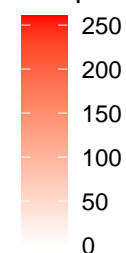
Conference

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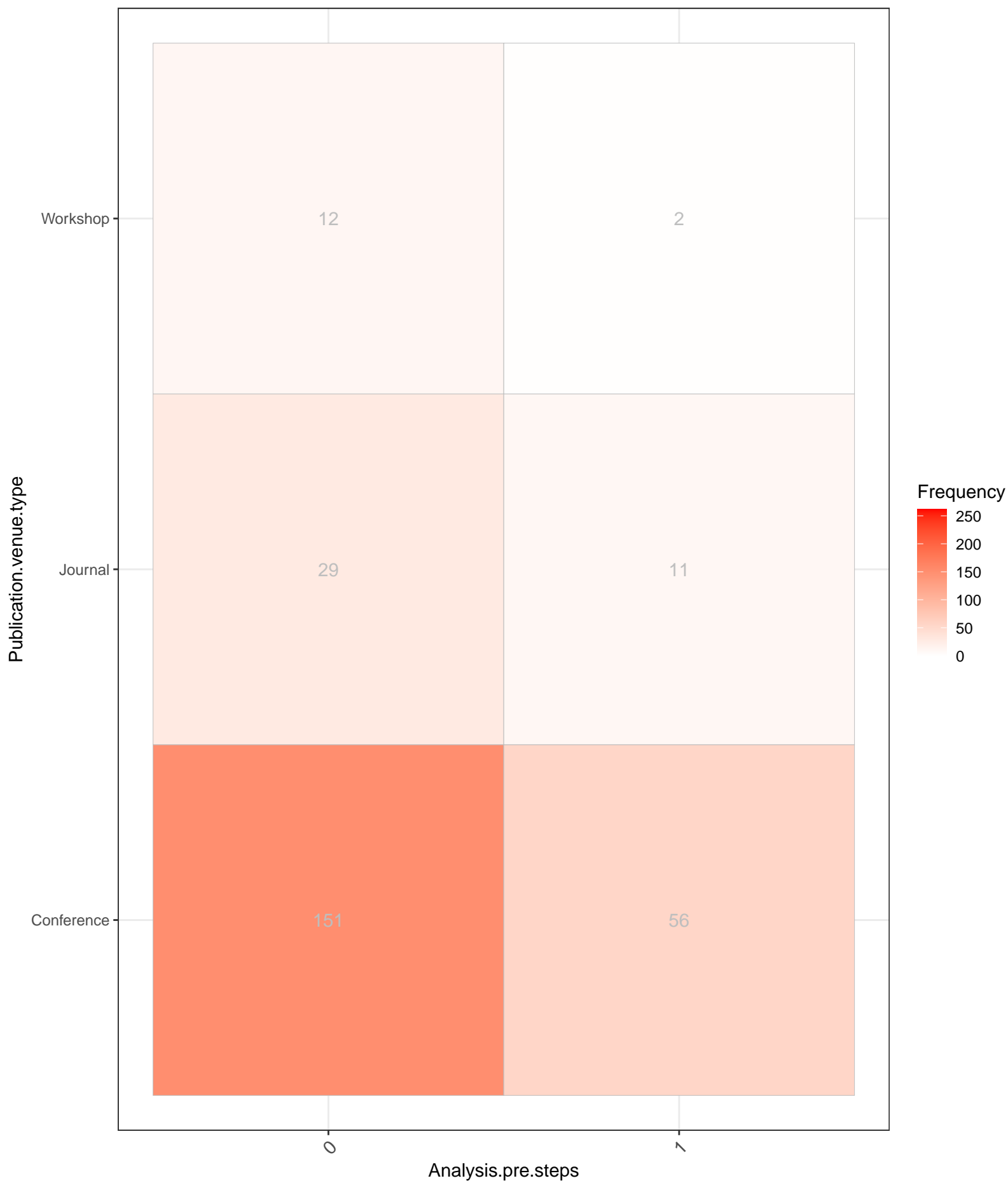
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APK versions
App store descriptions
Code snippets
Execution traces
Git-based code history
Issue reports
Libraries metadata
Libraries of interest
Methods of interest
Other tools output
Permissions of interest
Platform description
Policies
Source code mappings
System profile
Test cases
UI elements
User defined analysis
Workload description

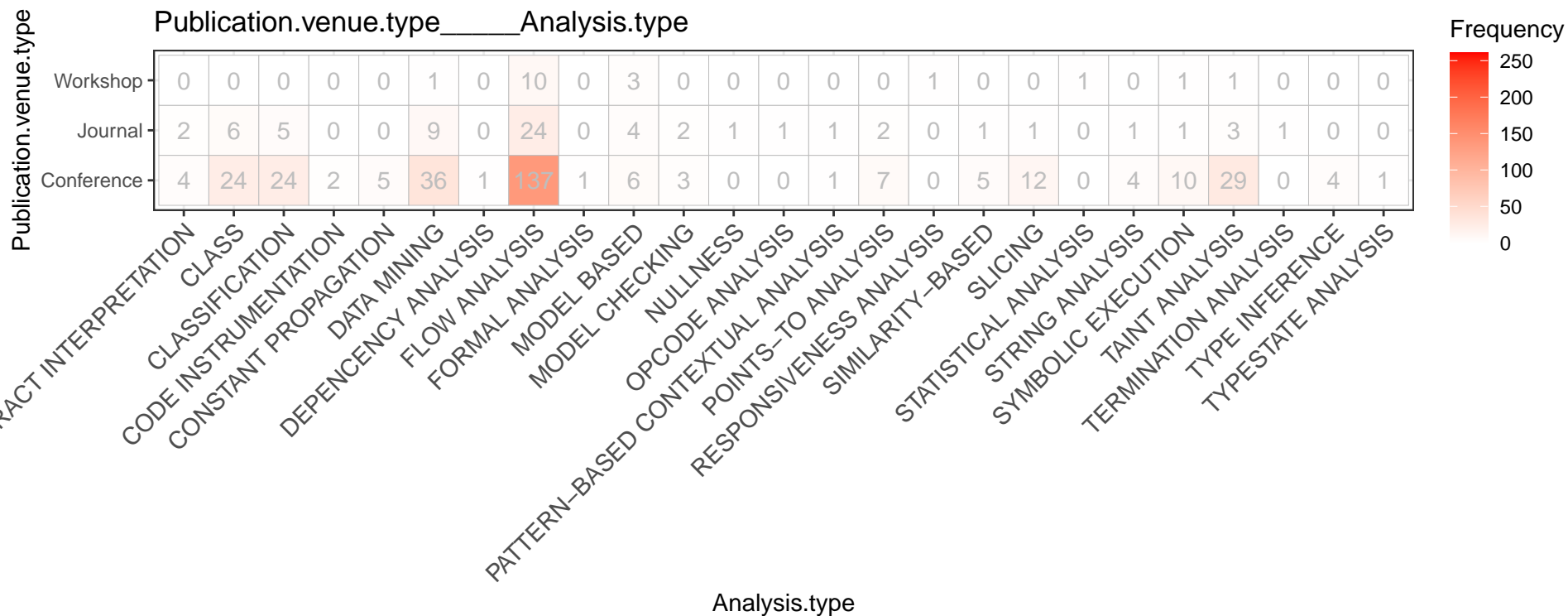
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Frequency

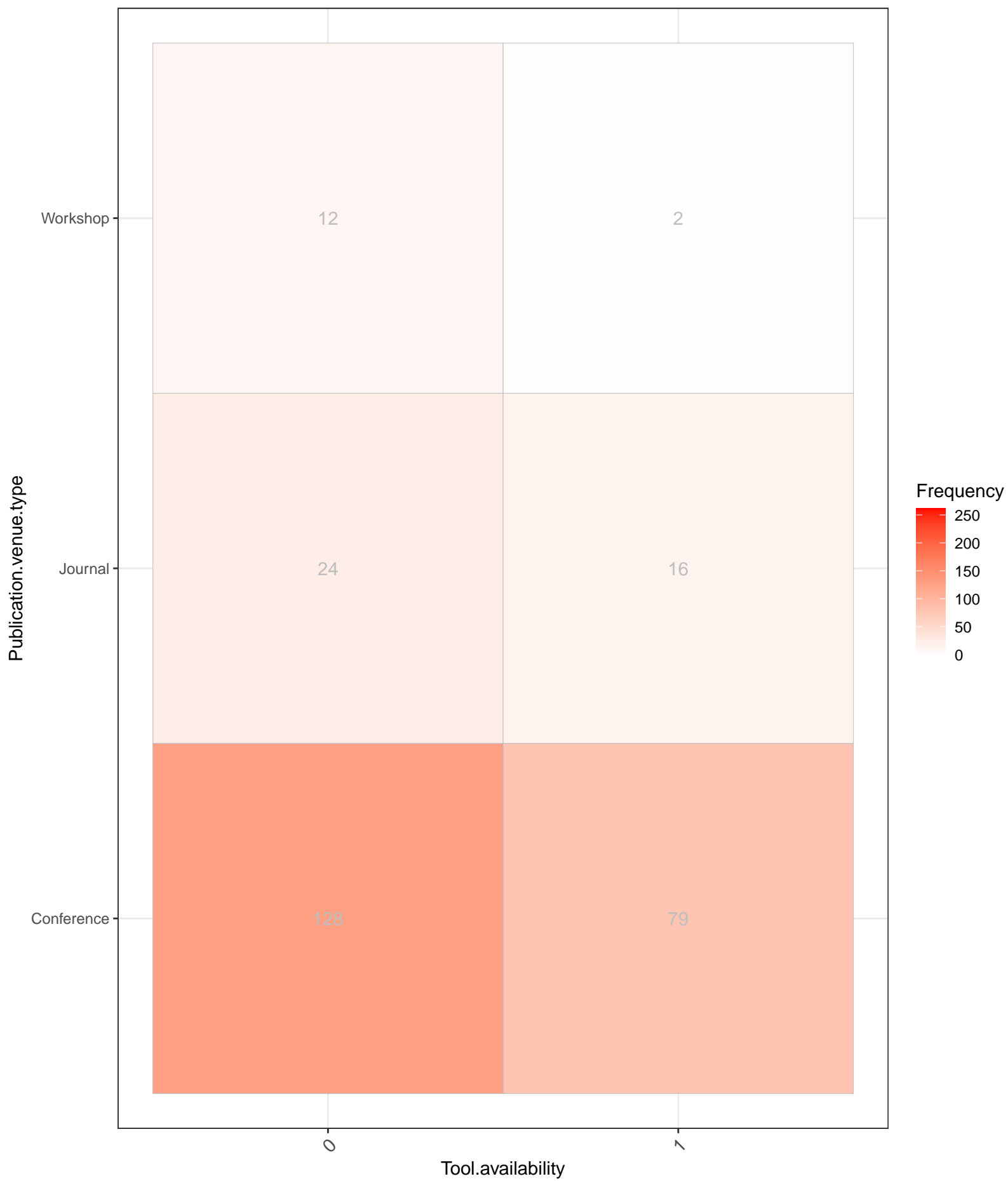


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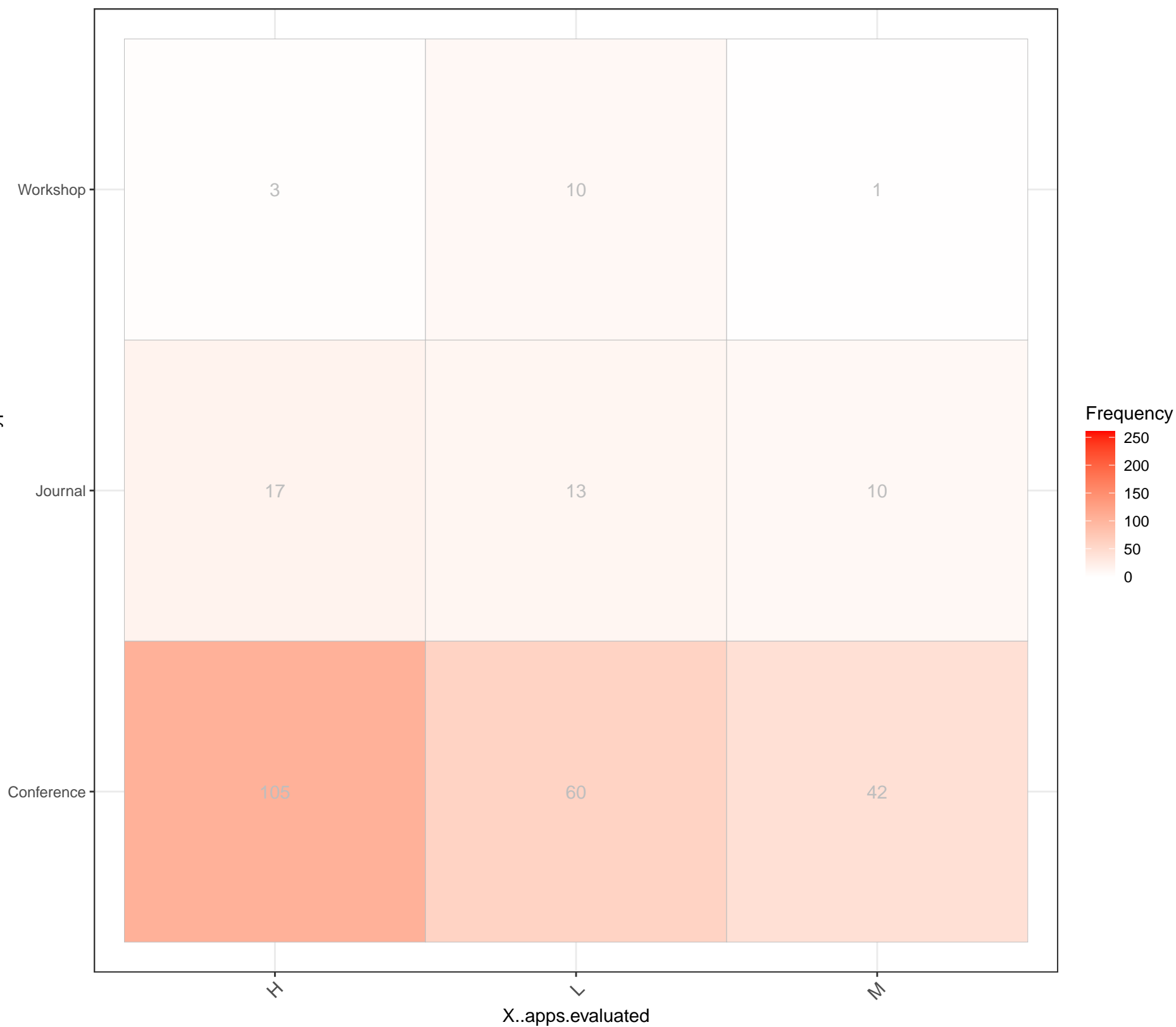




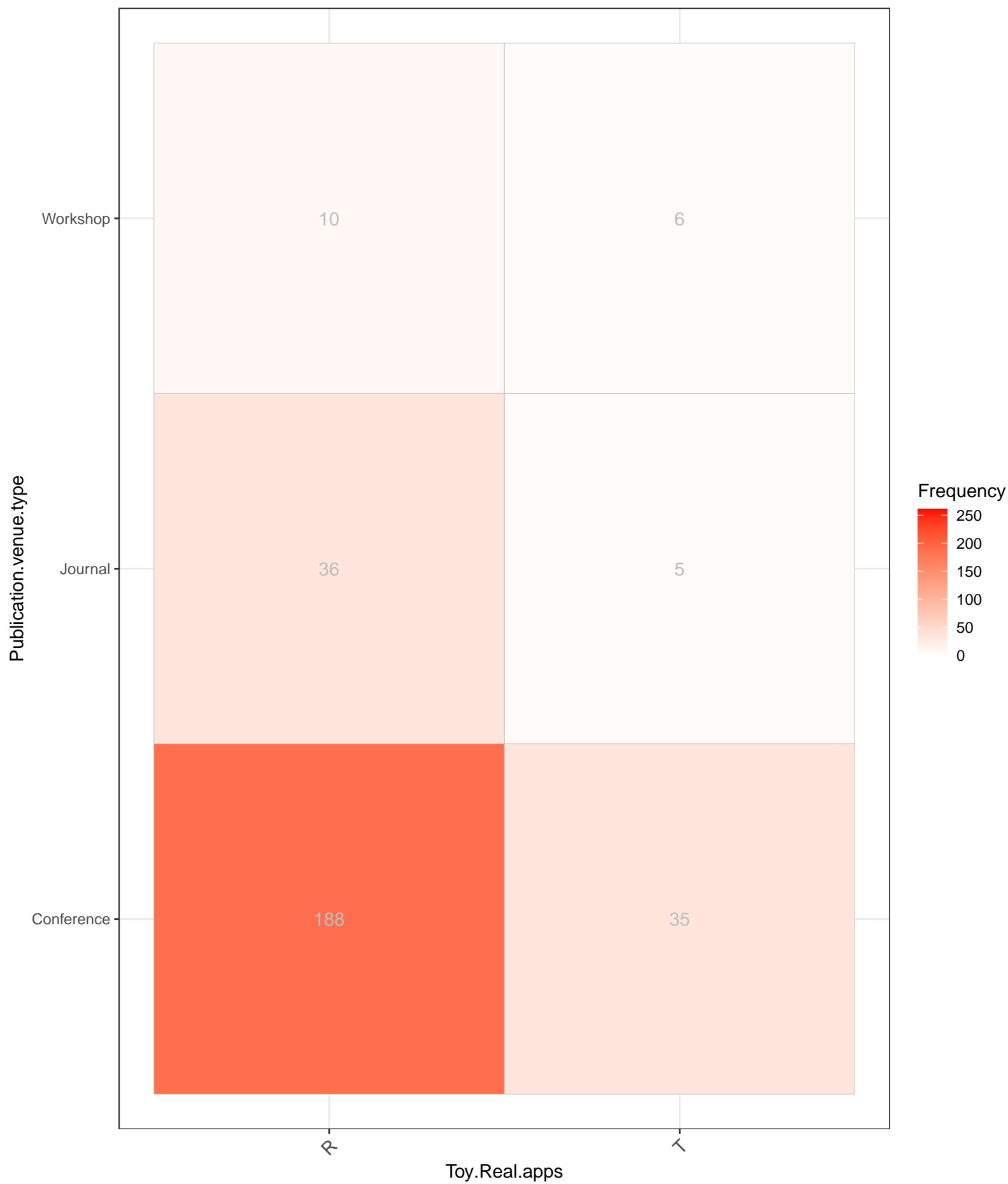
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Publication.venue.type_____X..apps.evaluated



Publication.venue.type_____Toy.Real.apps



Publication.venue.type_____Industry.involvement

Publication.venue.type

Workshop

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Journal

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Conference

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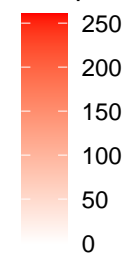
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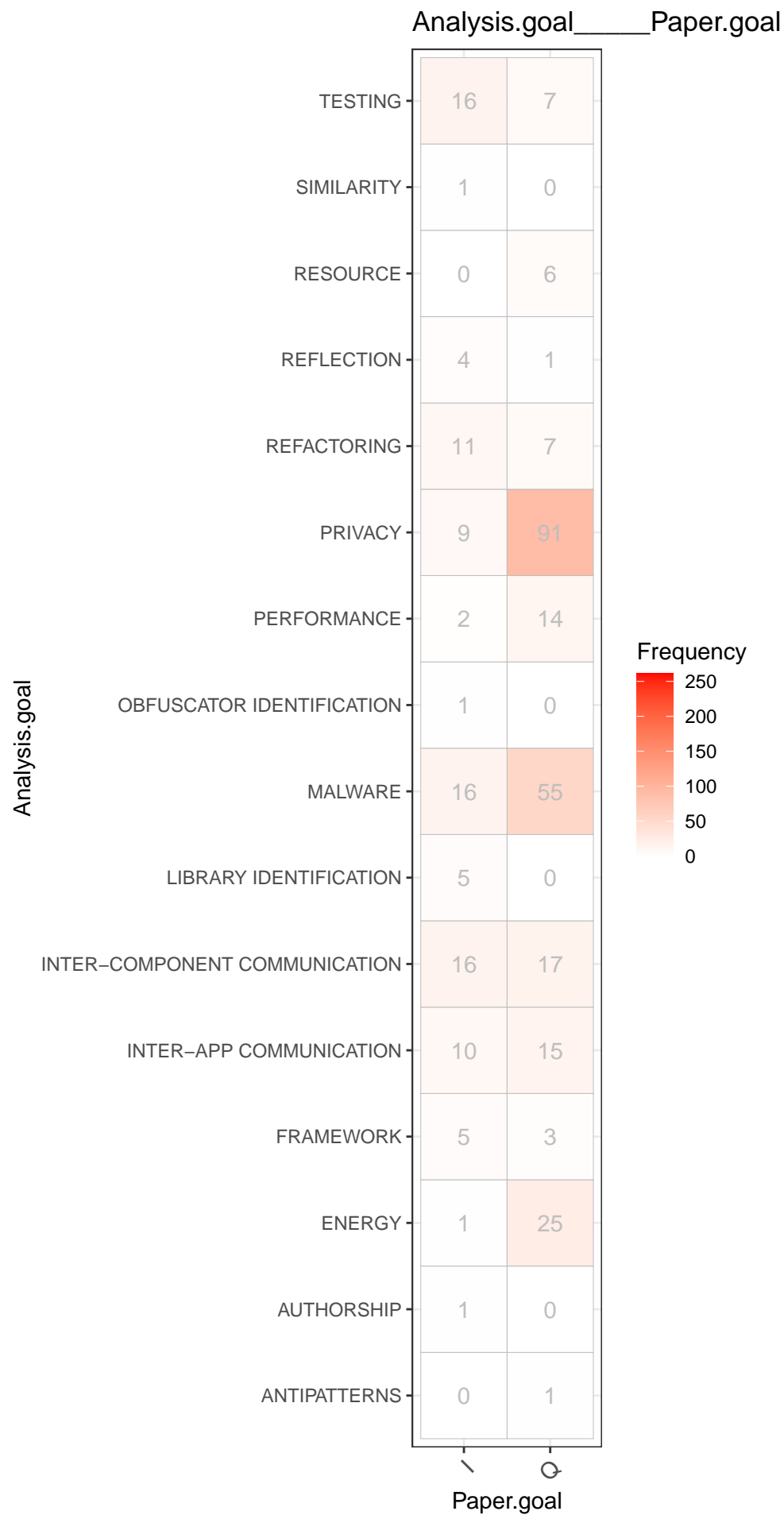
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Industry.involvement

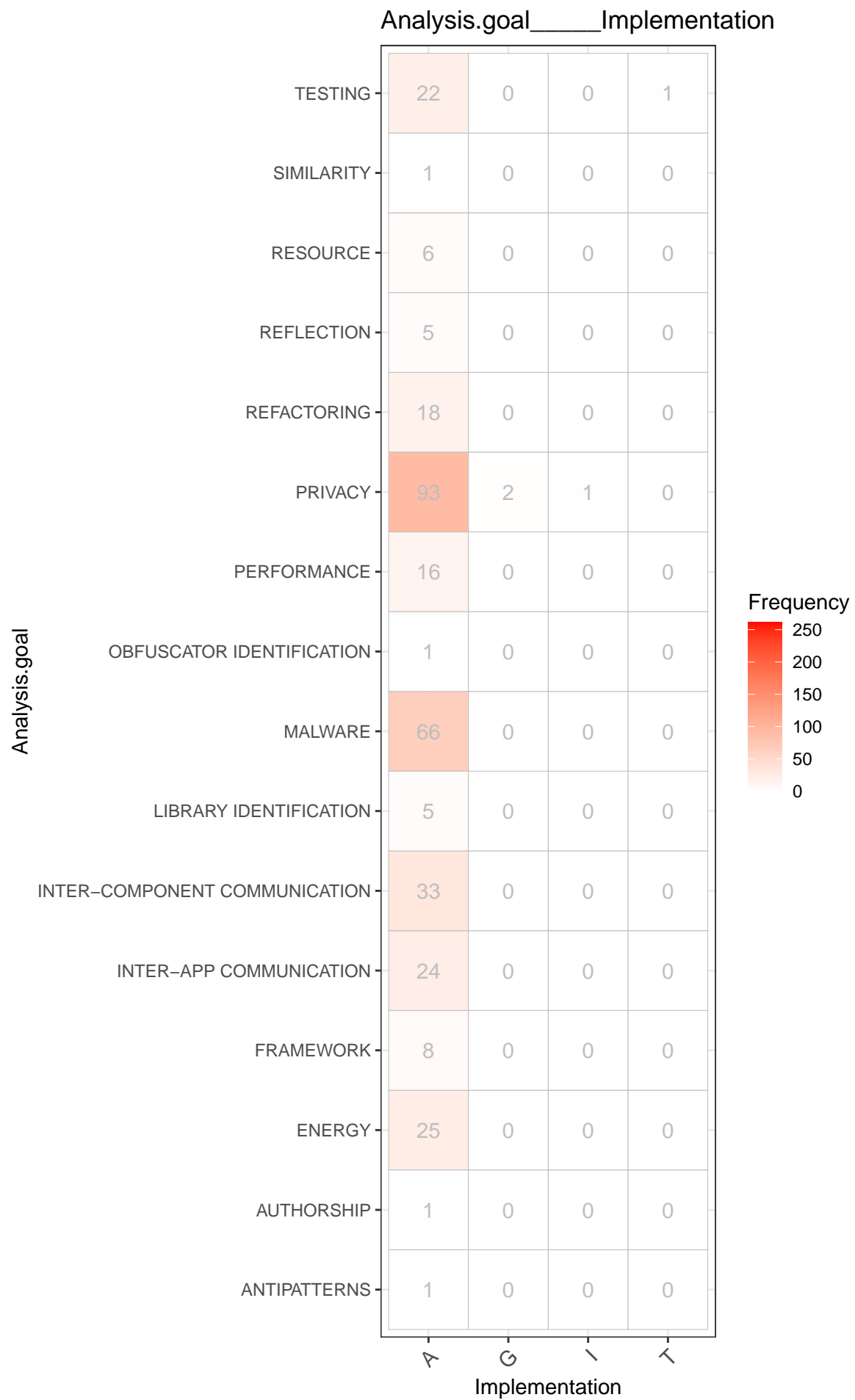
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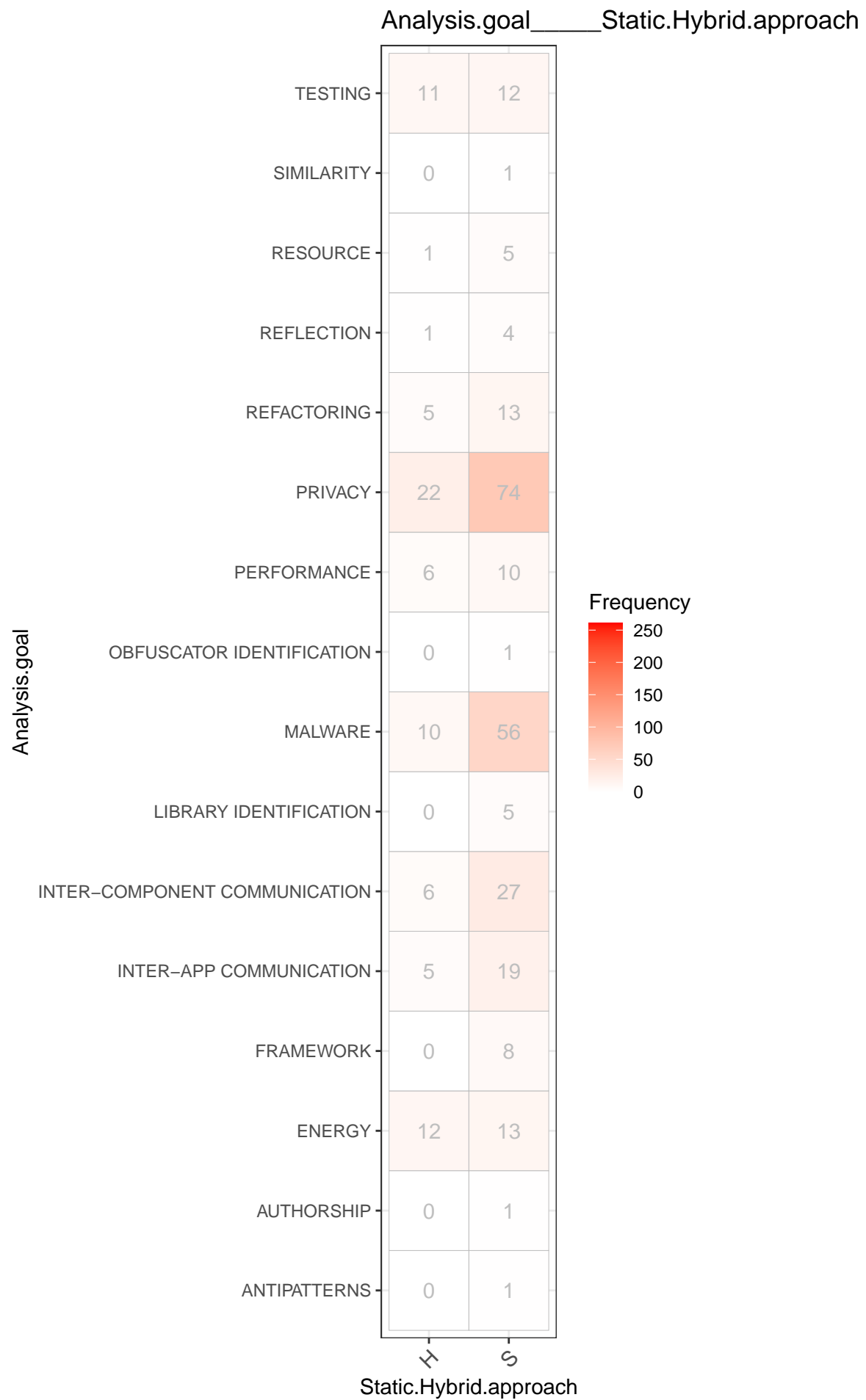


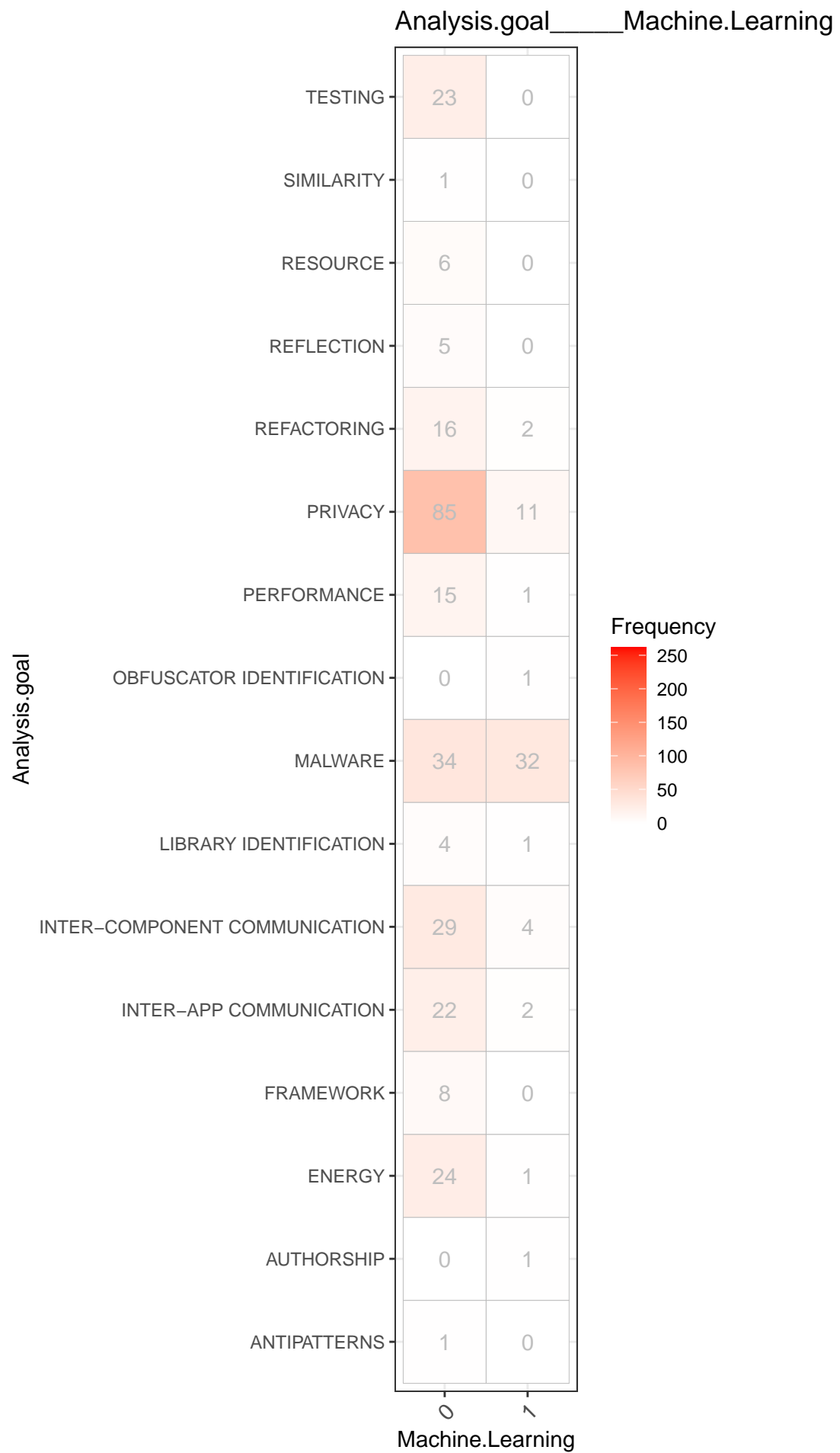






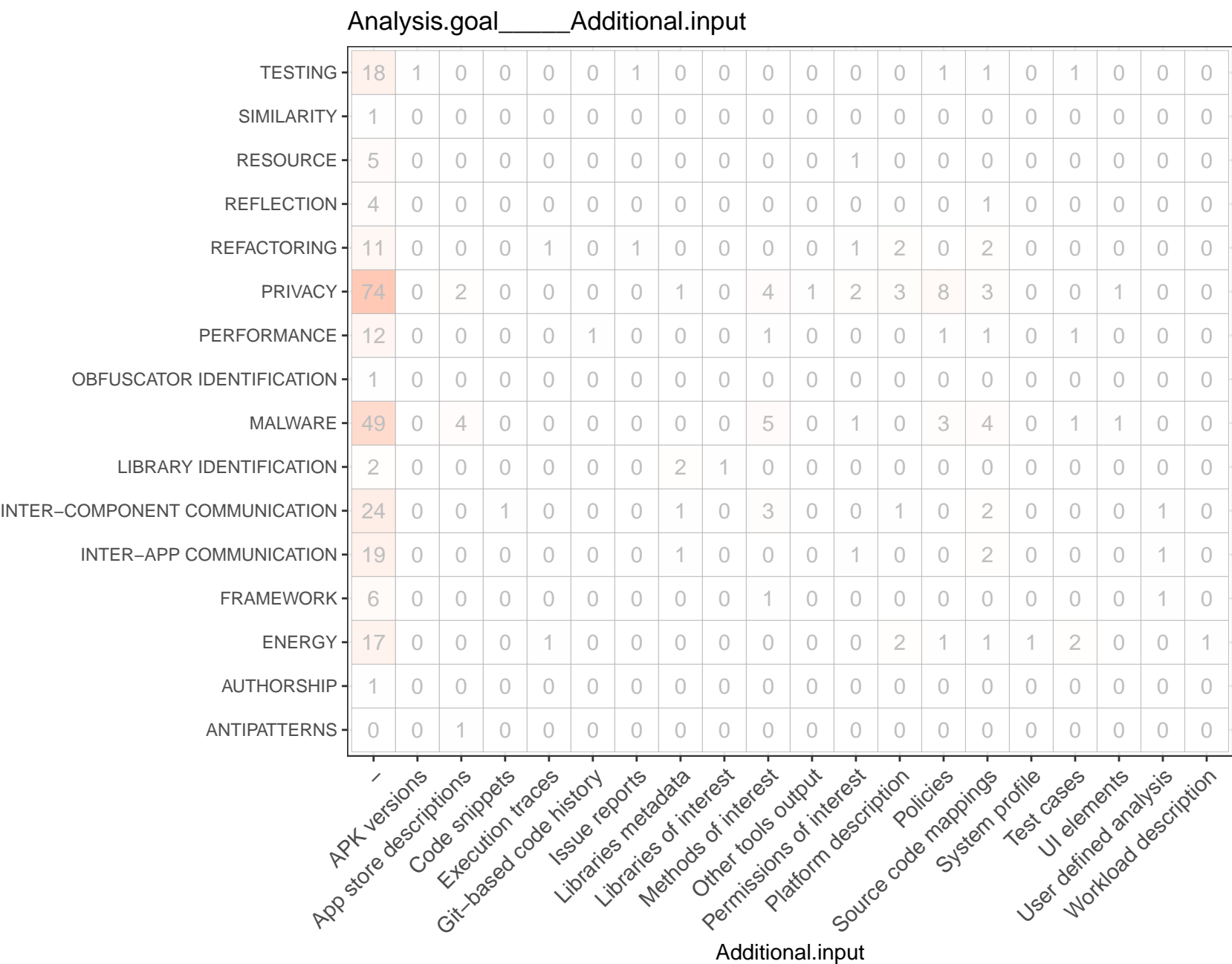




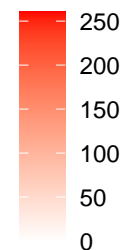


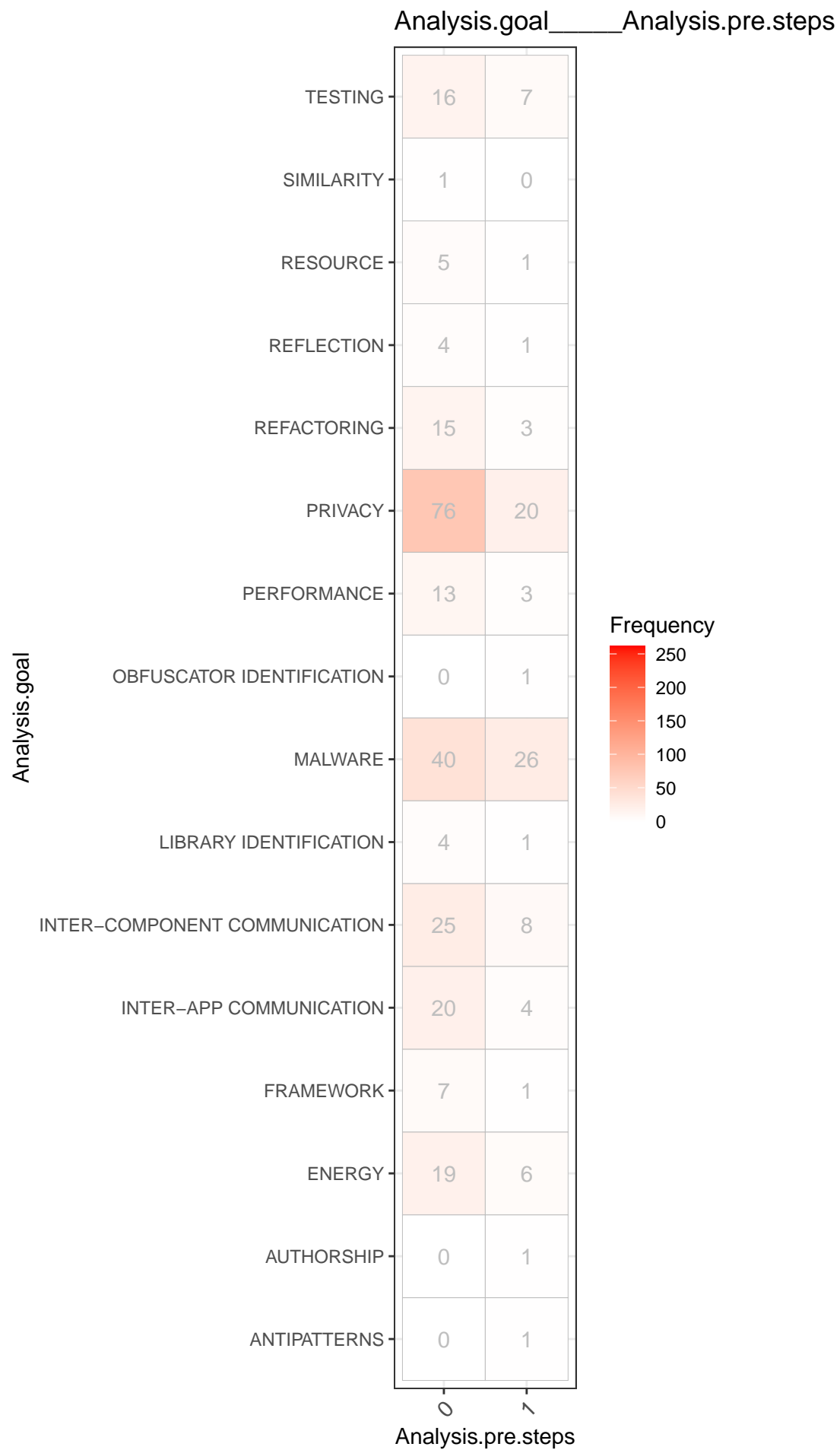


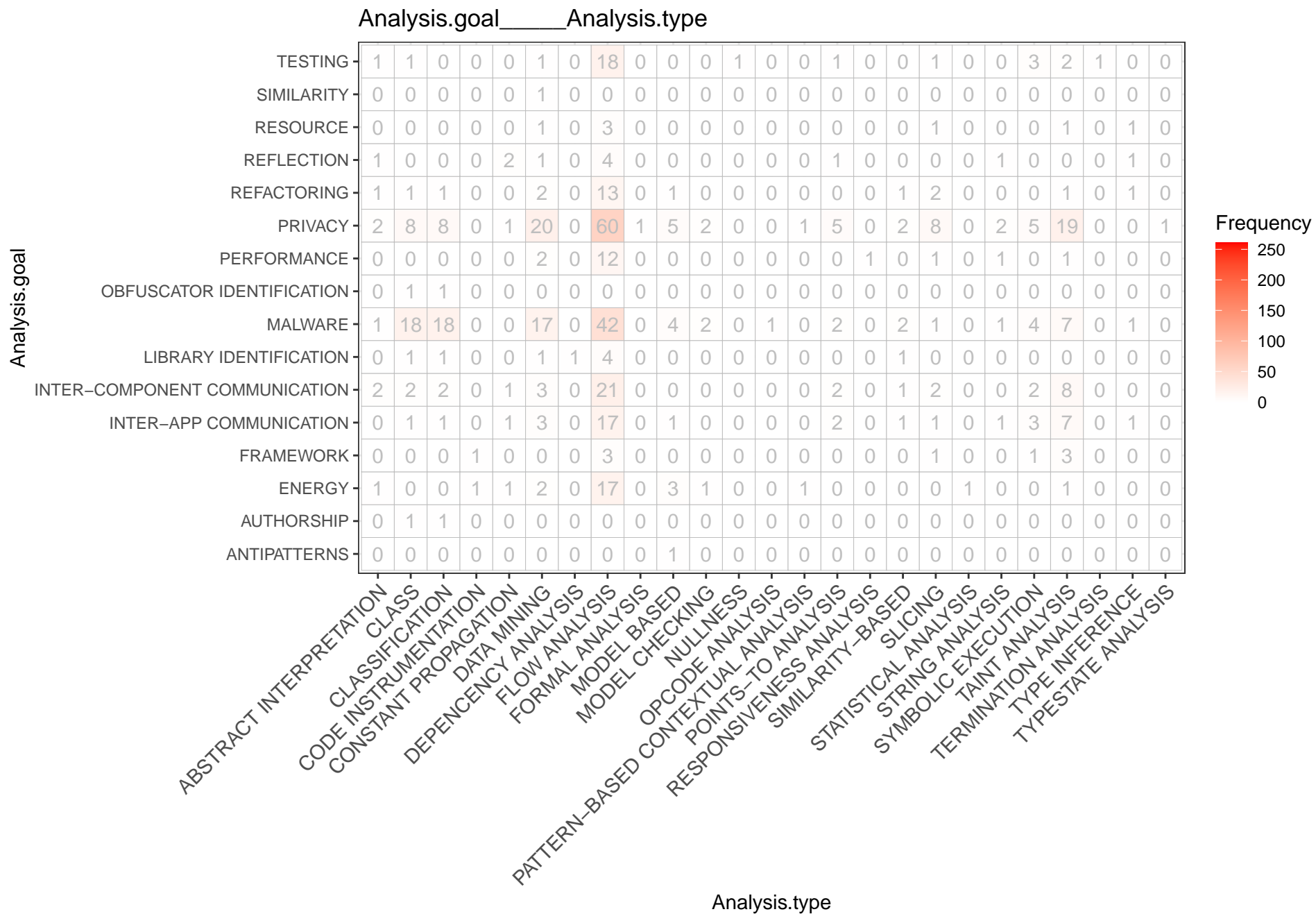
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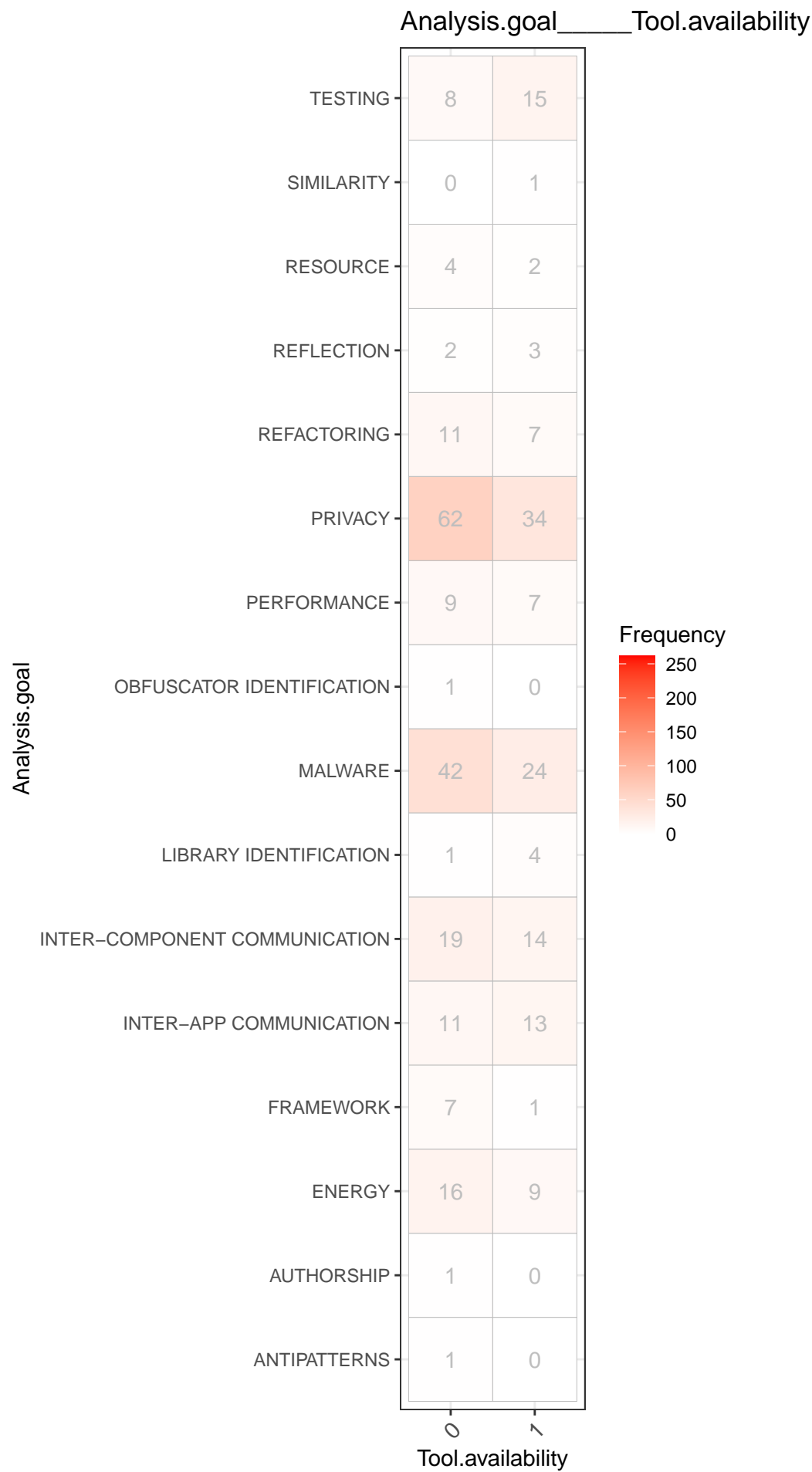


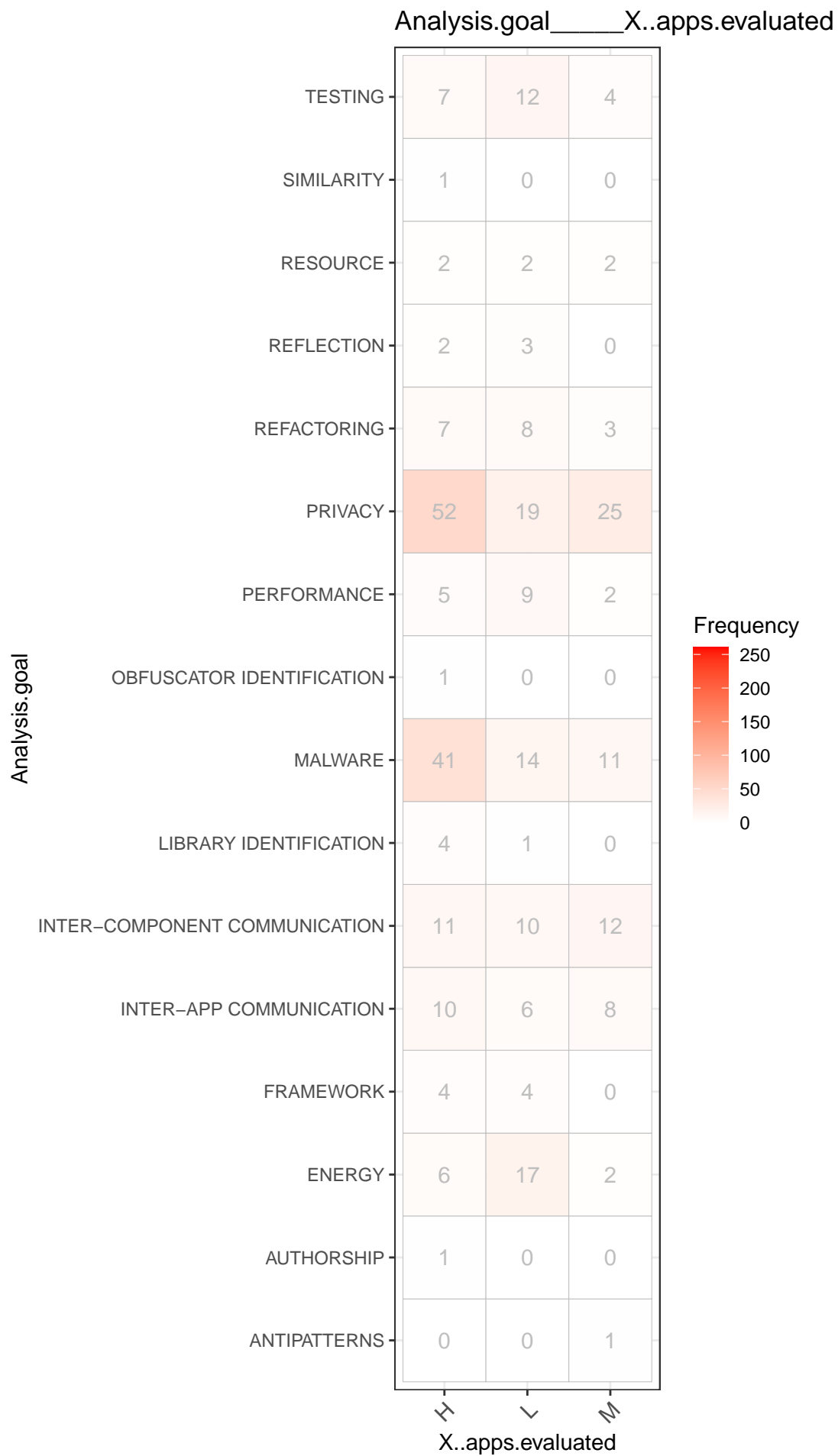
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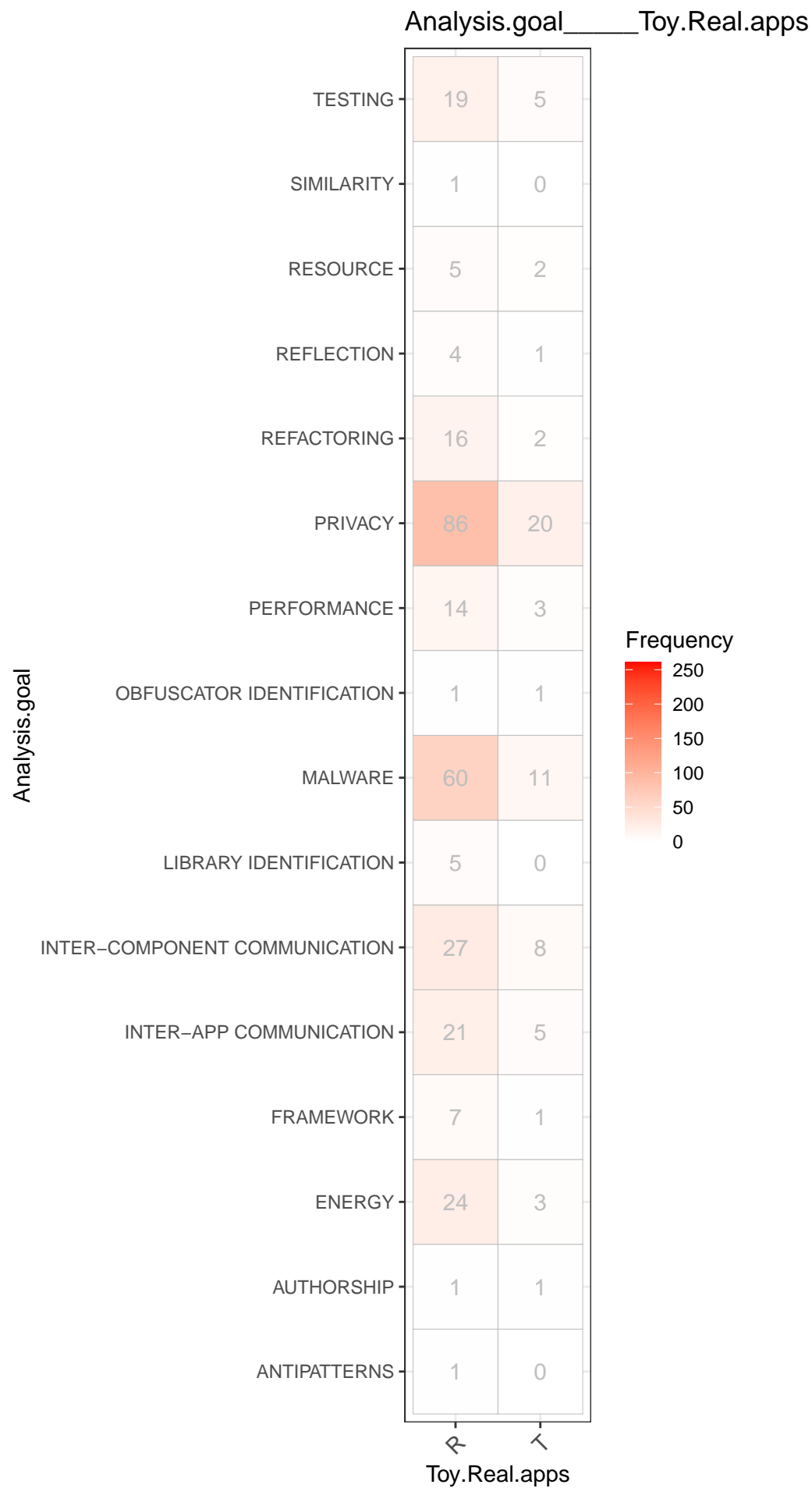






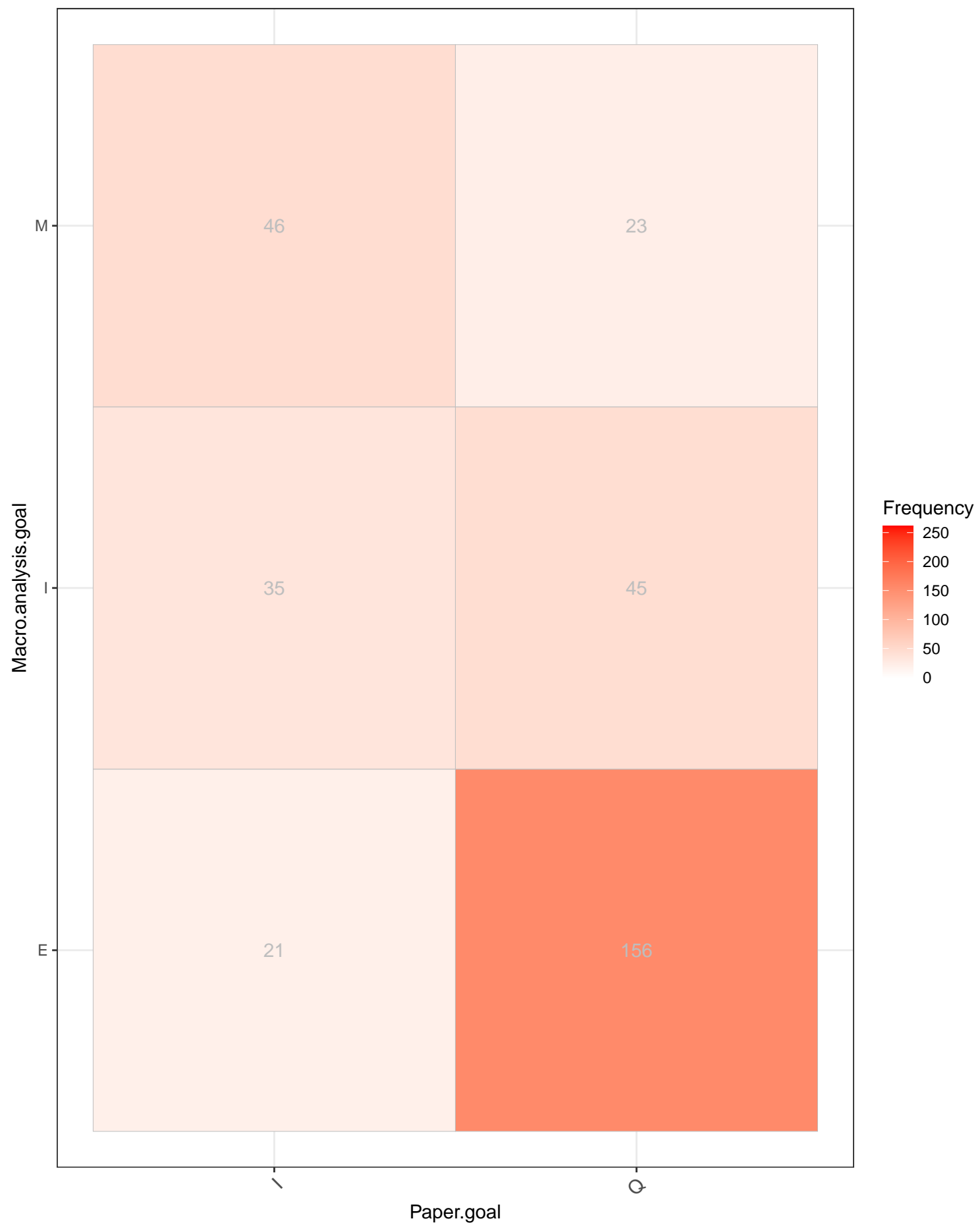




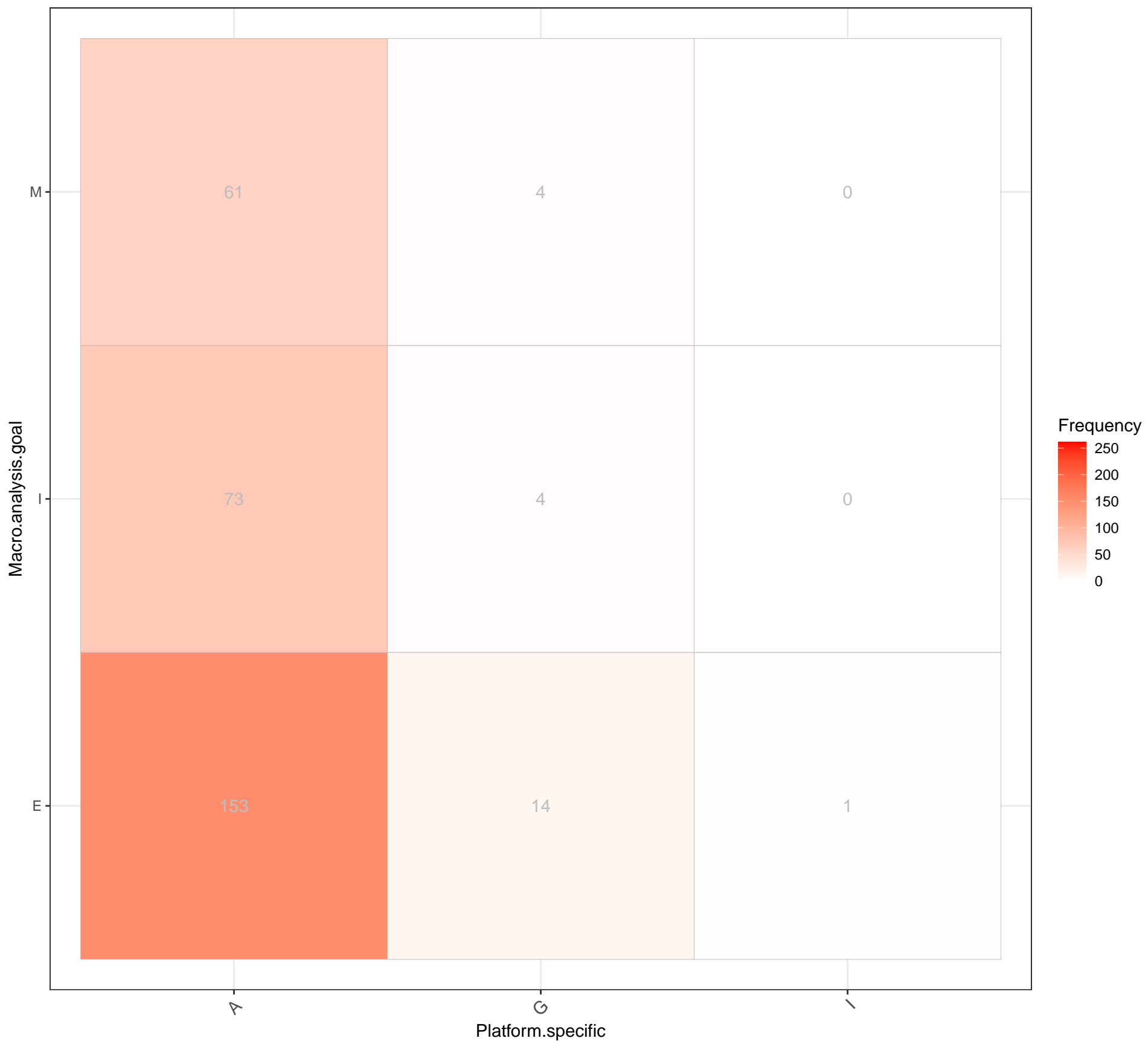




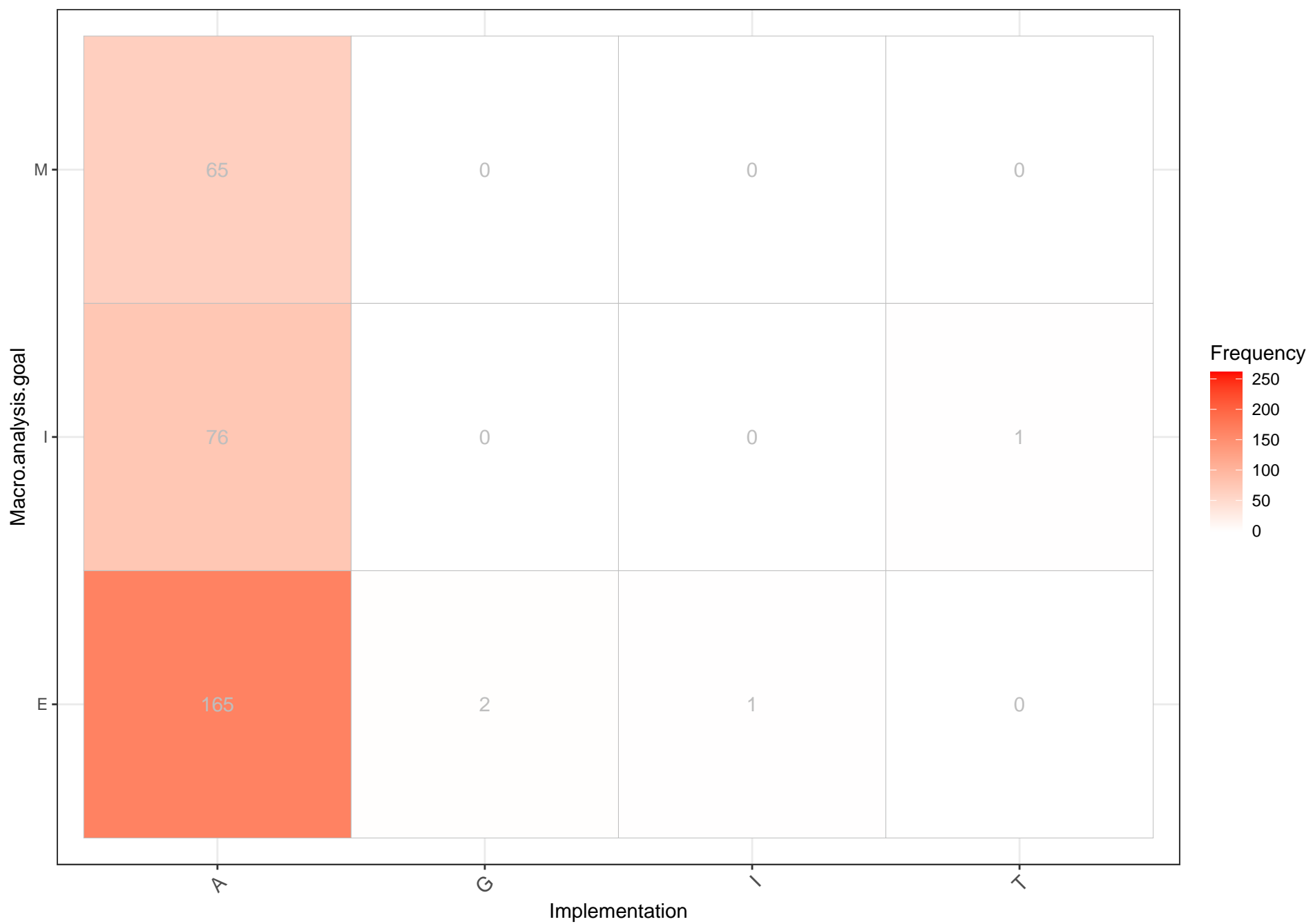
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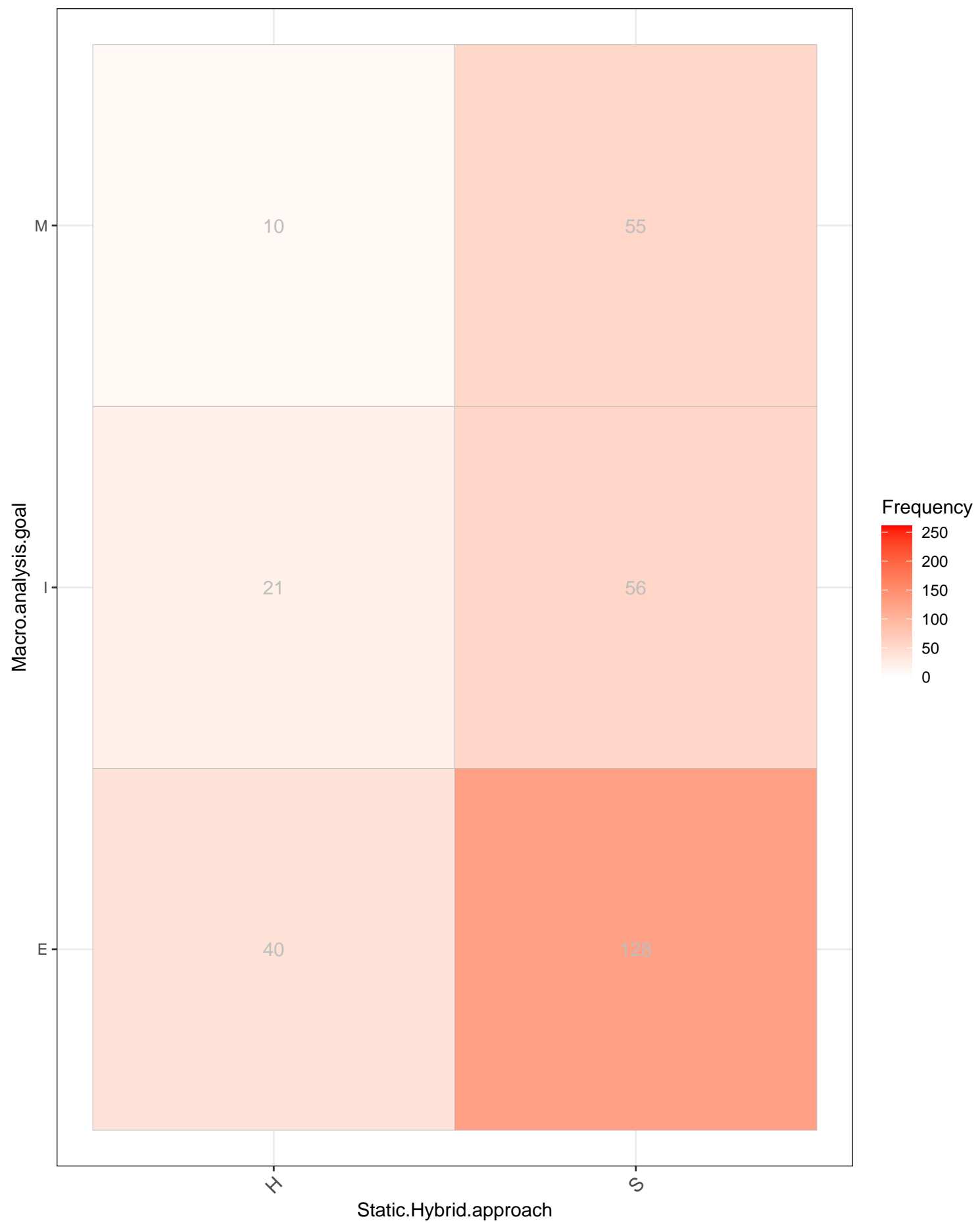
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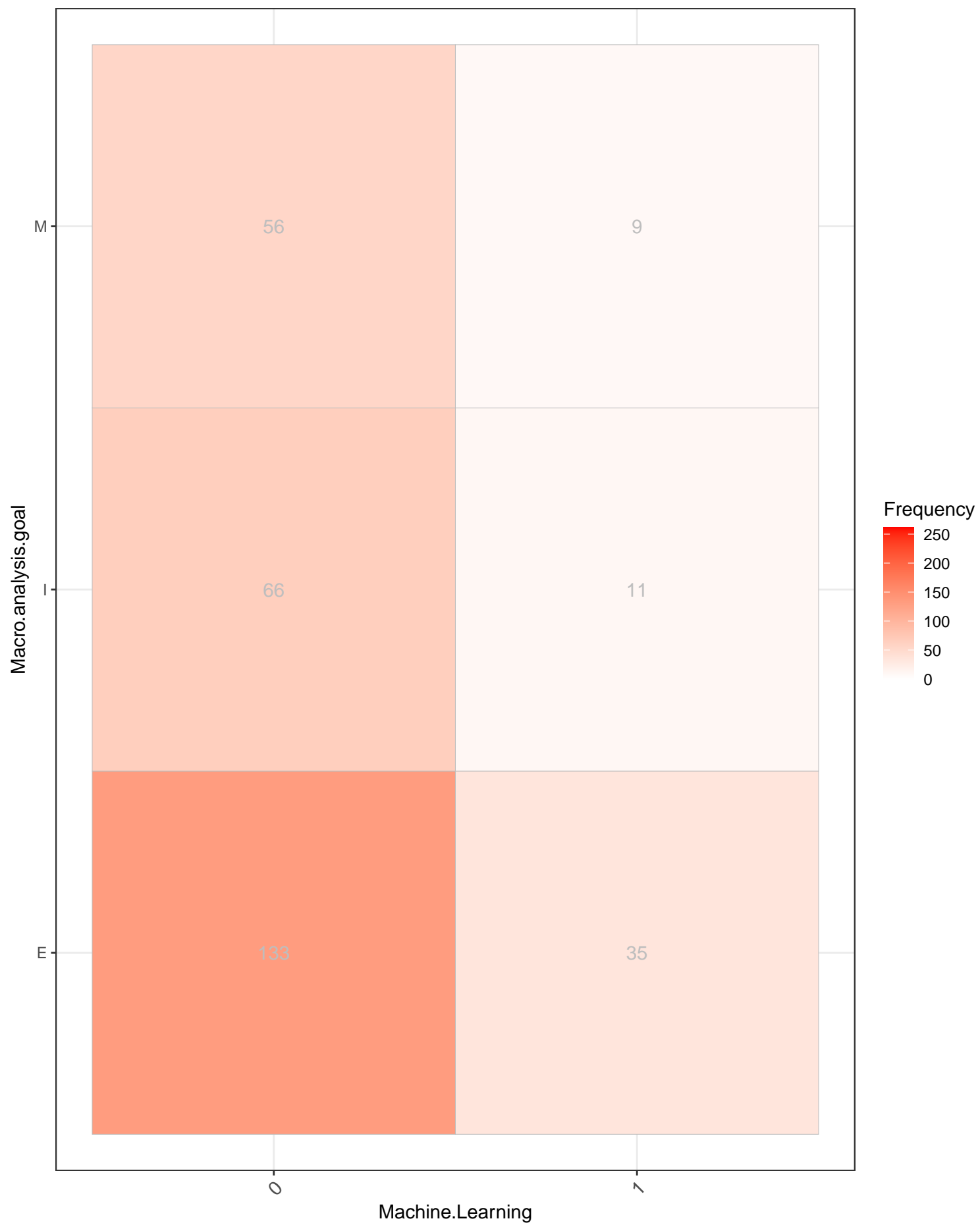
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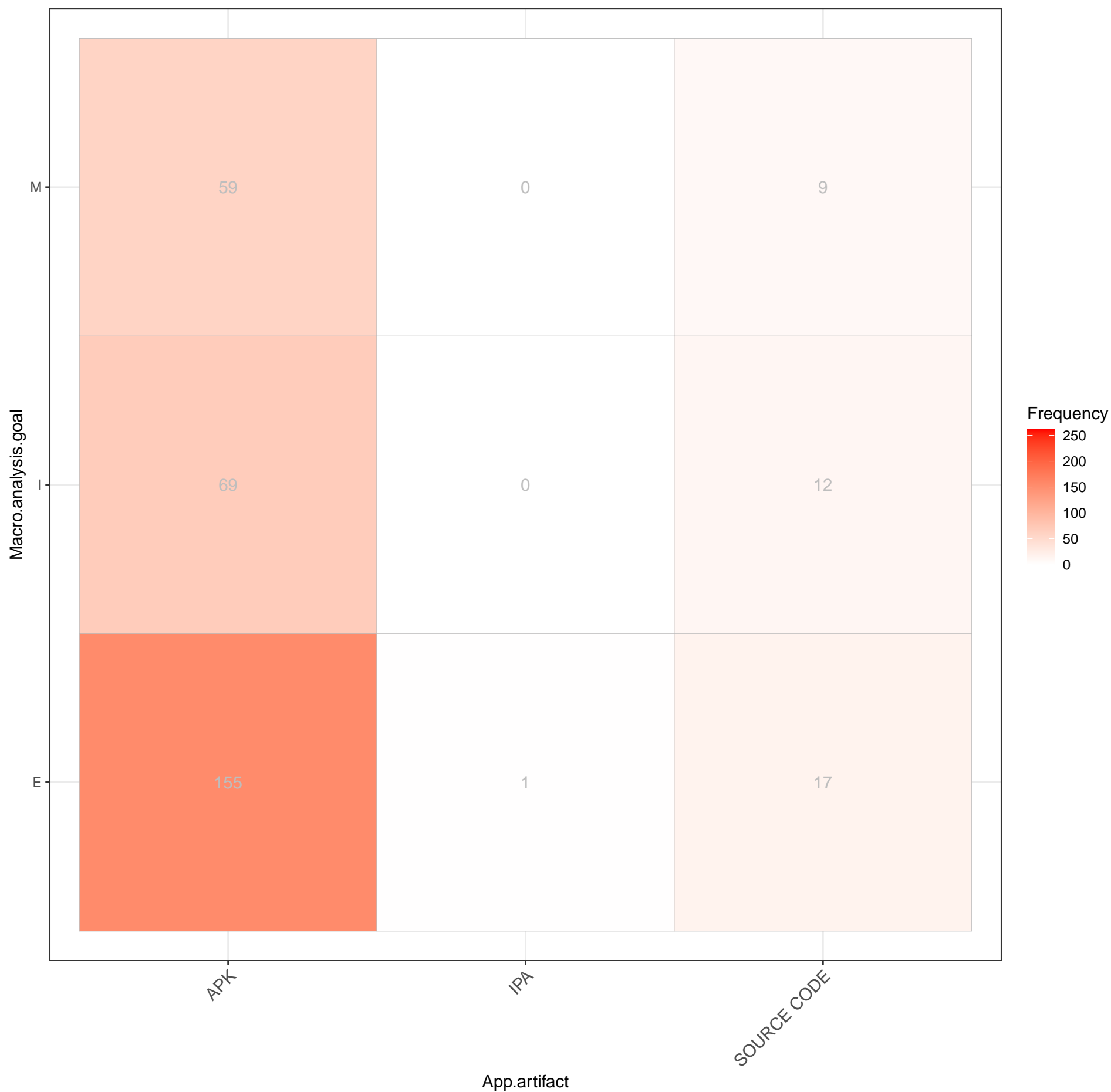
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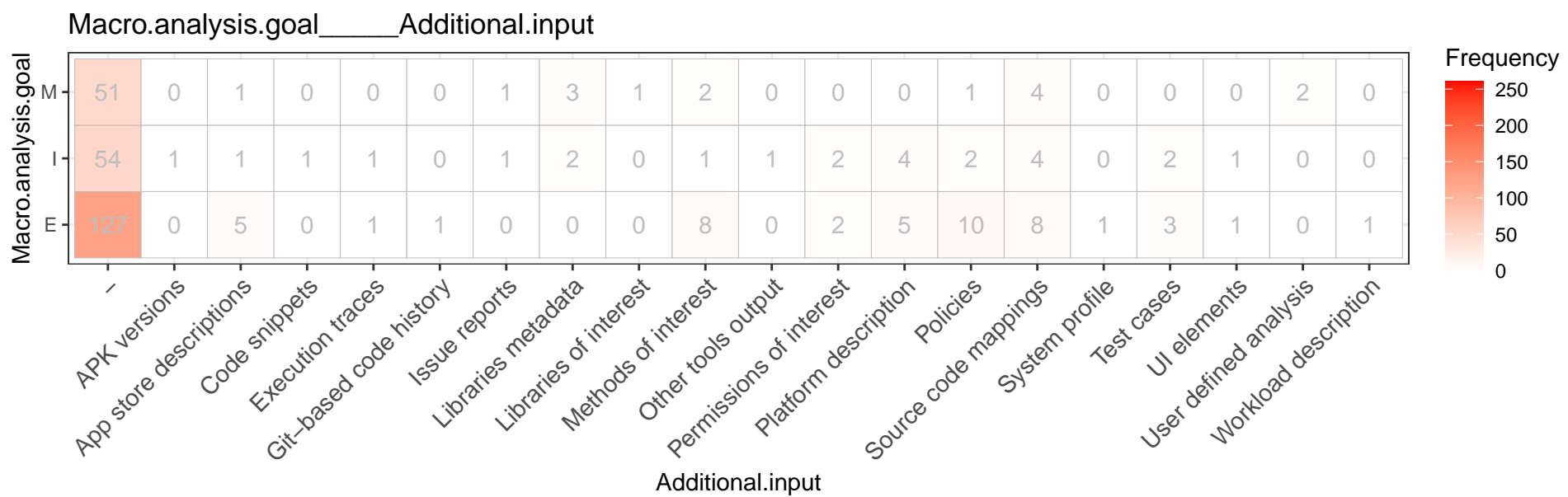


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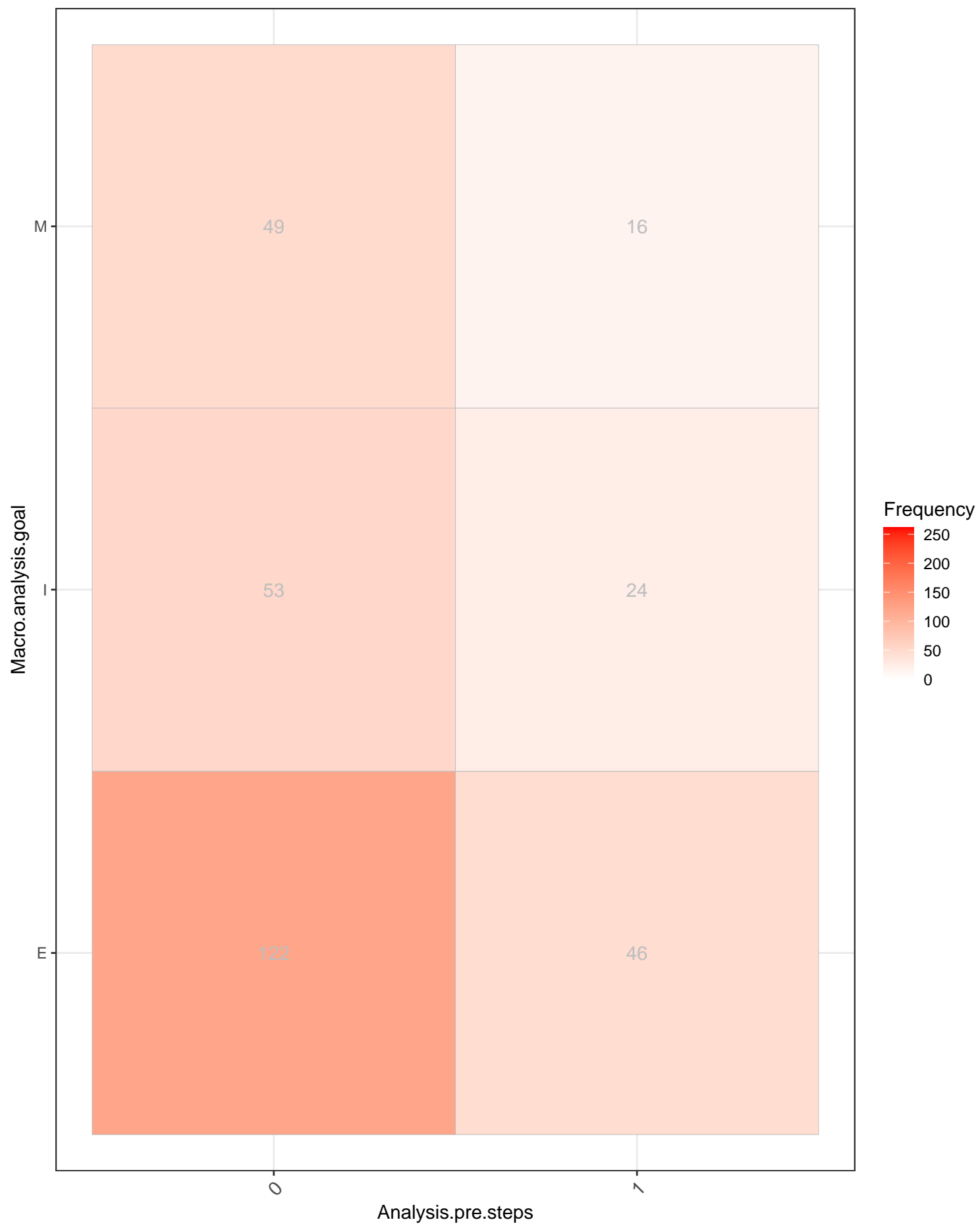


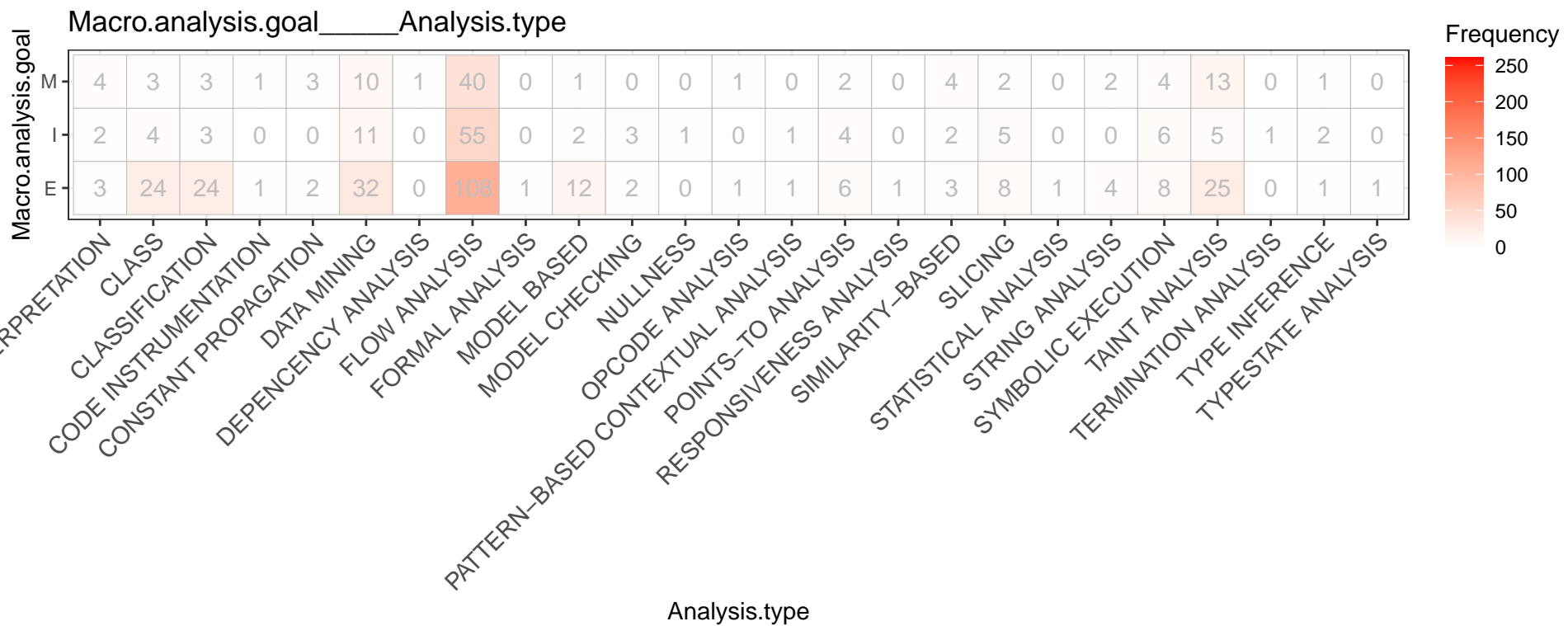
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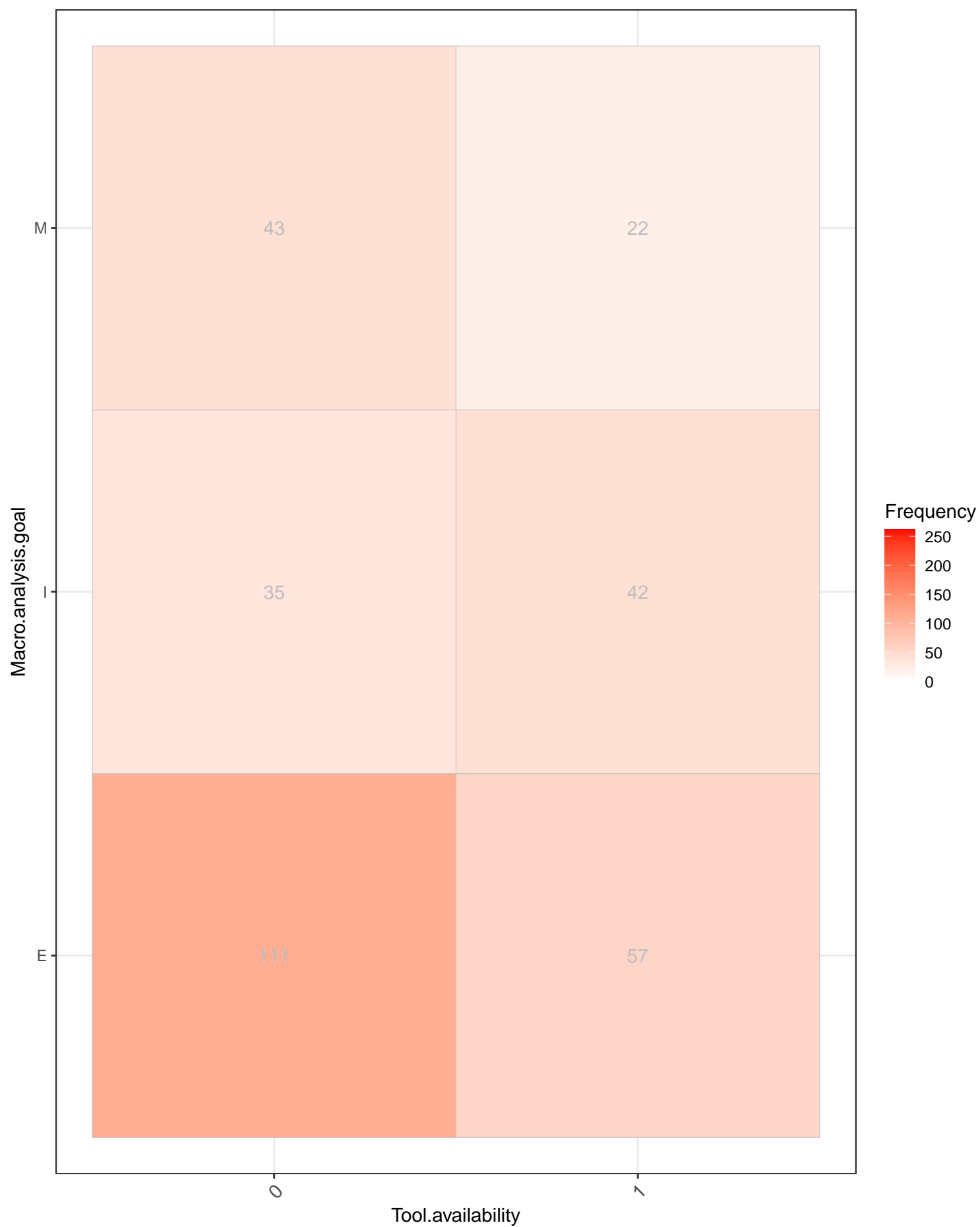


Macro.analysis.goal_____Analysis.pre.steps

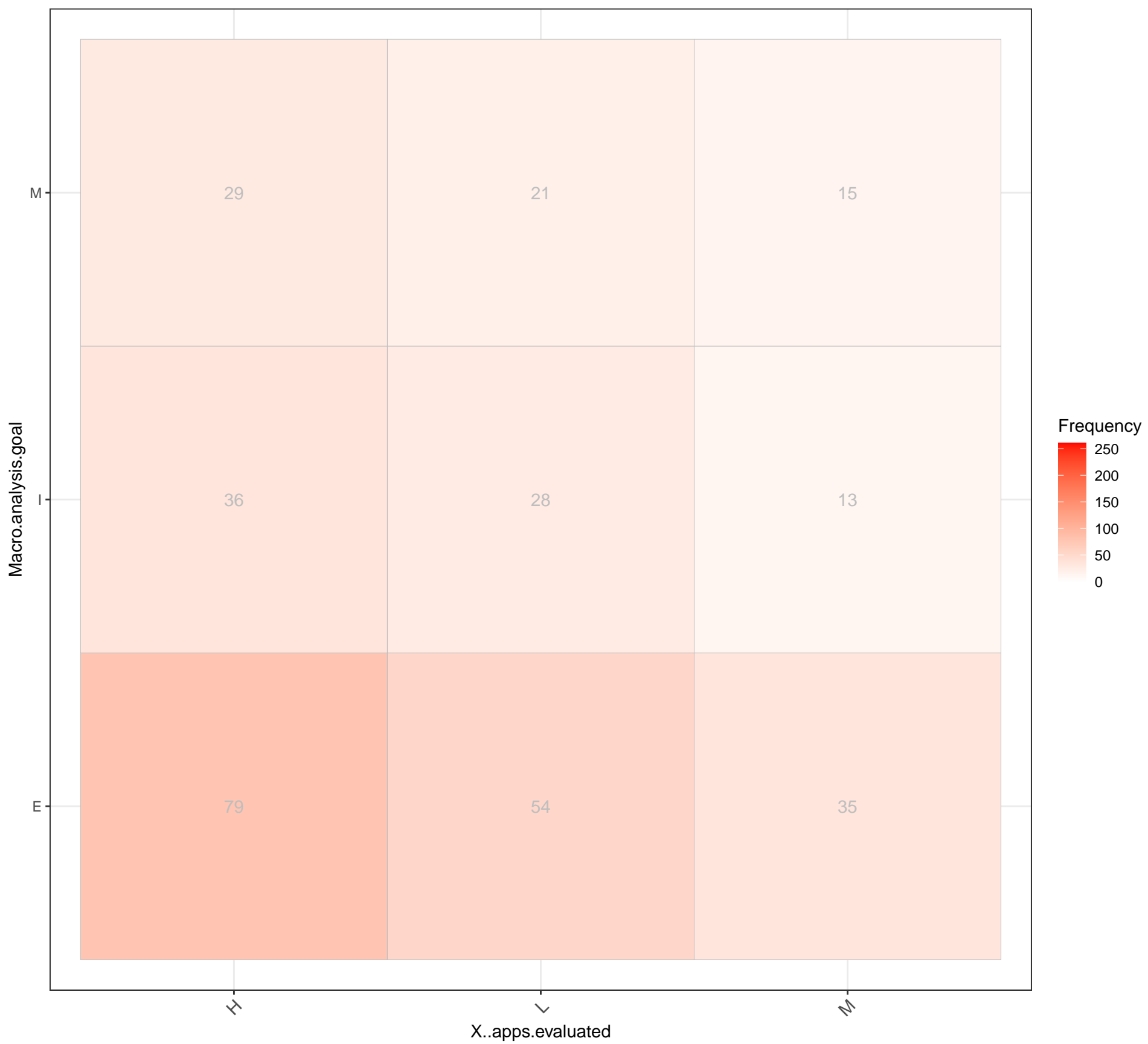




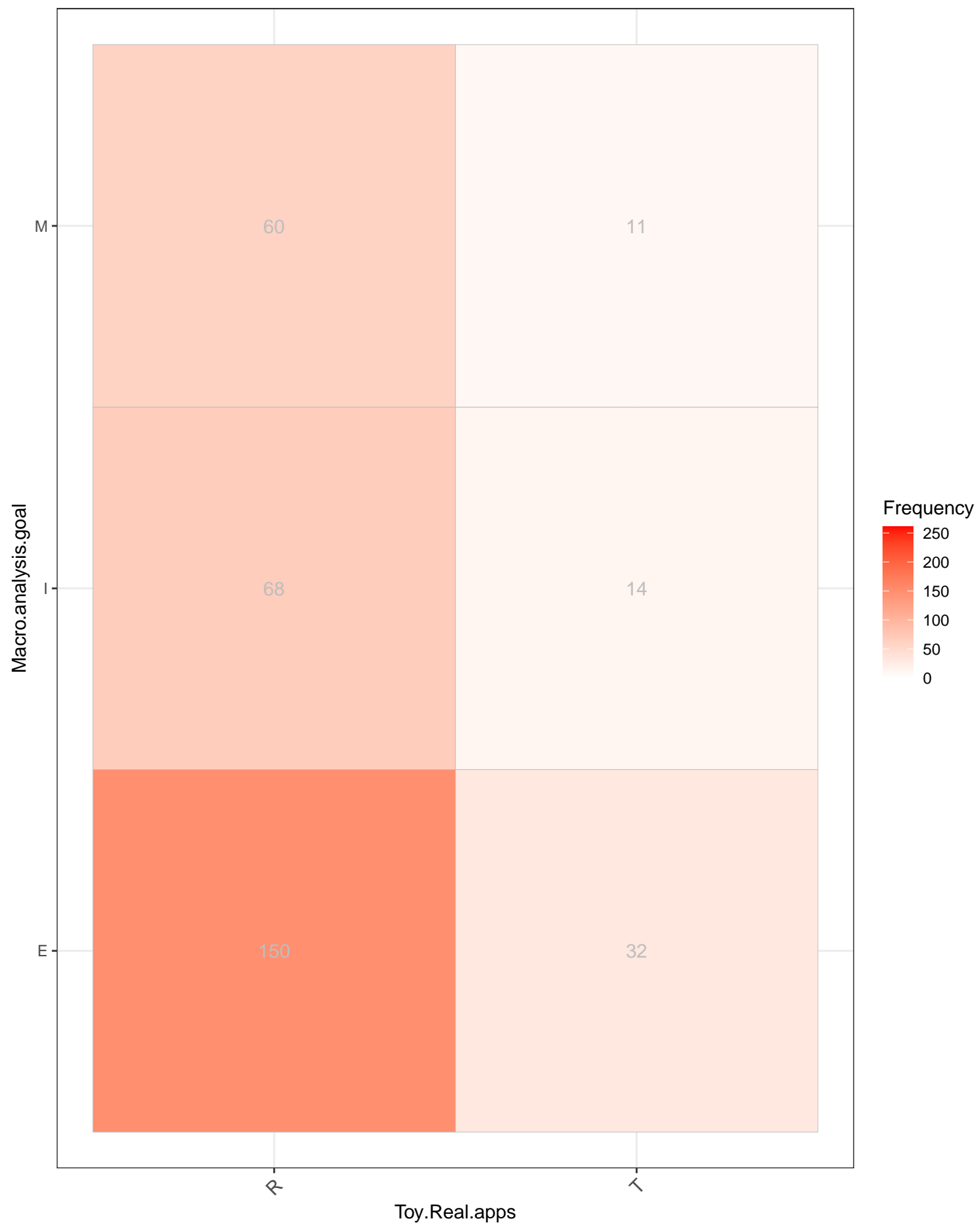
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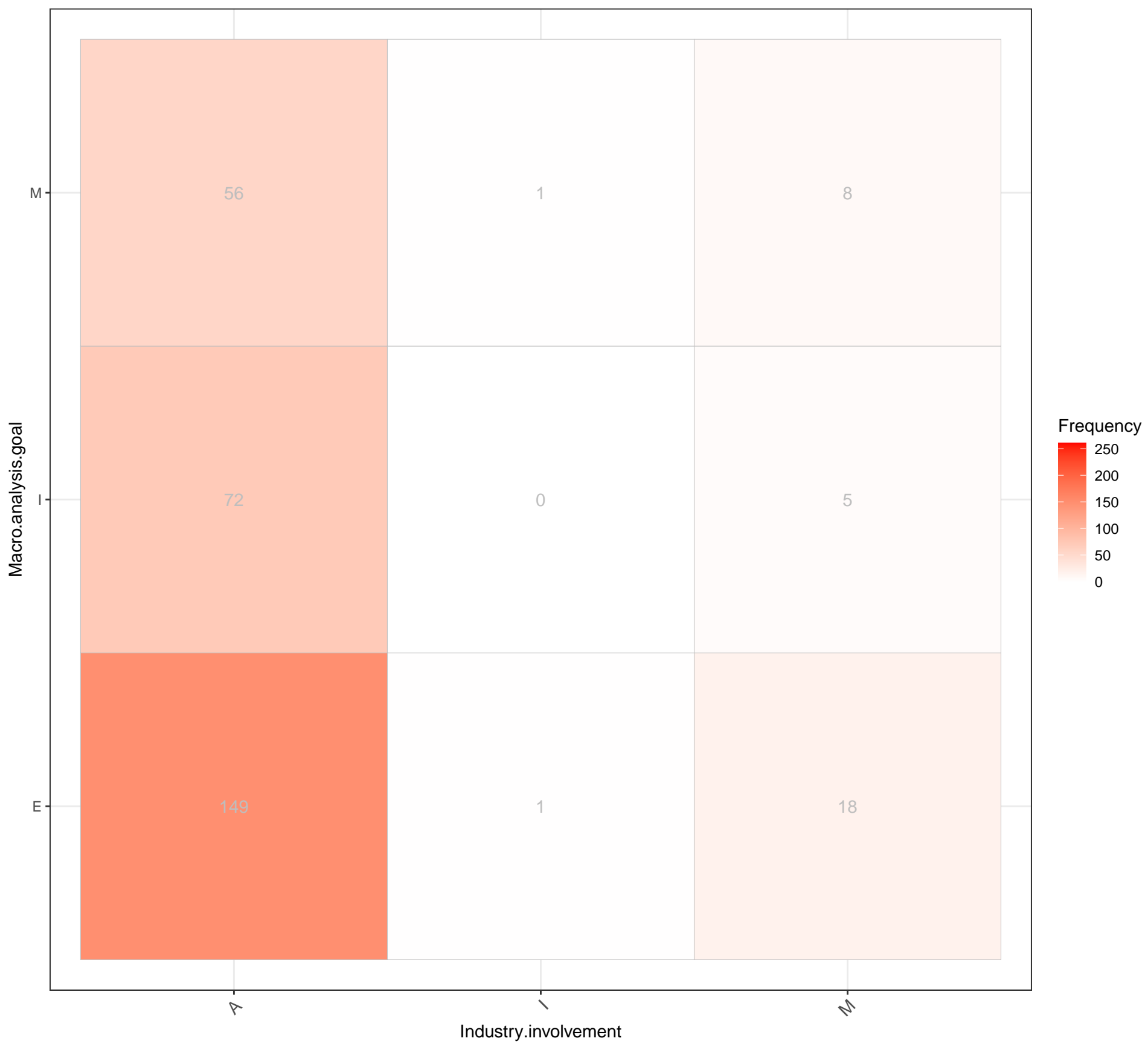
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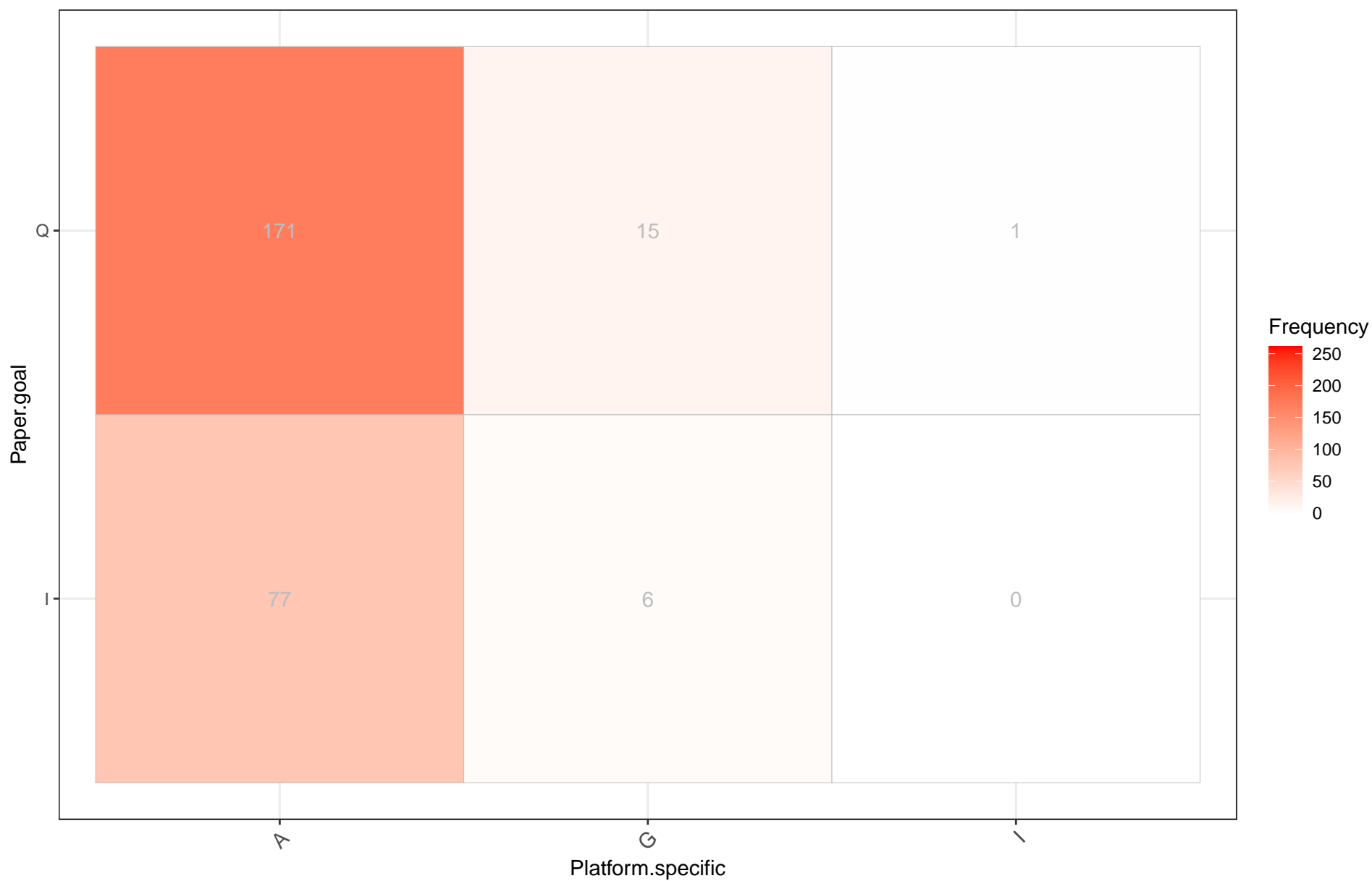
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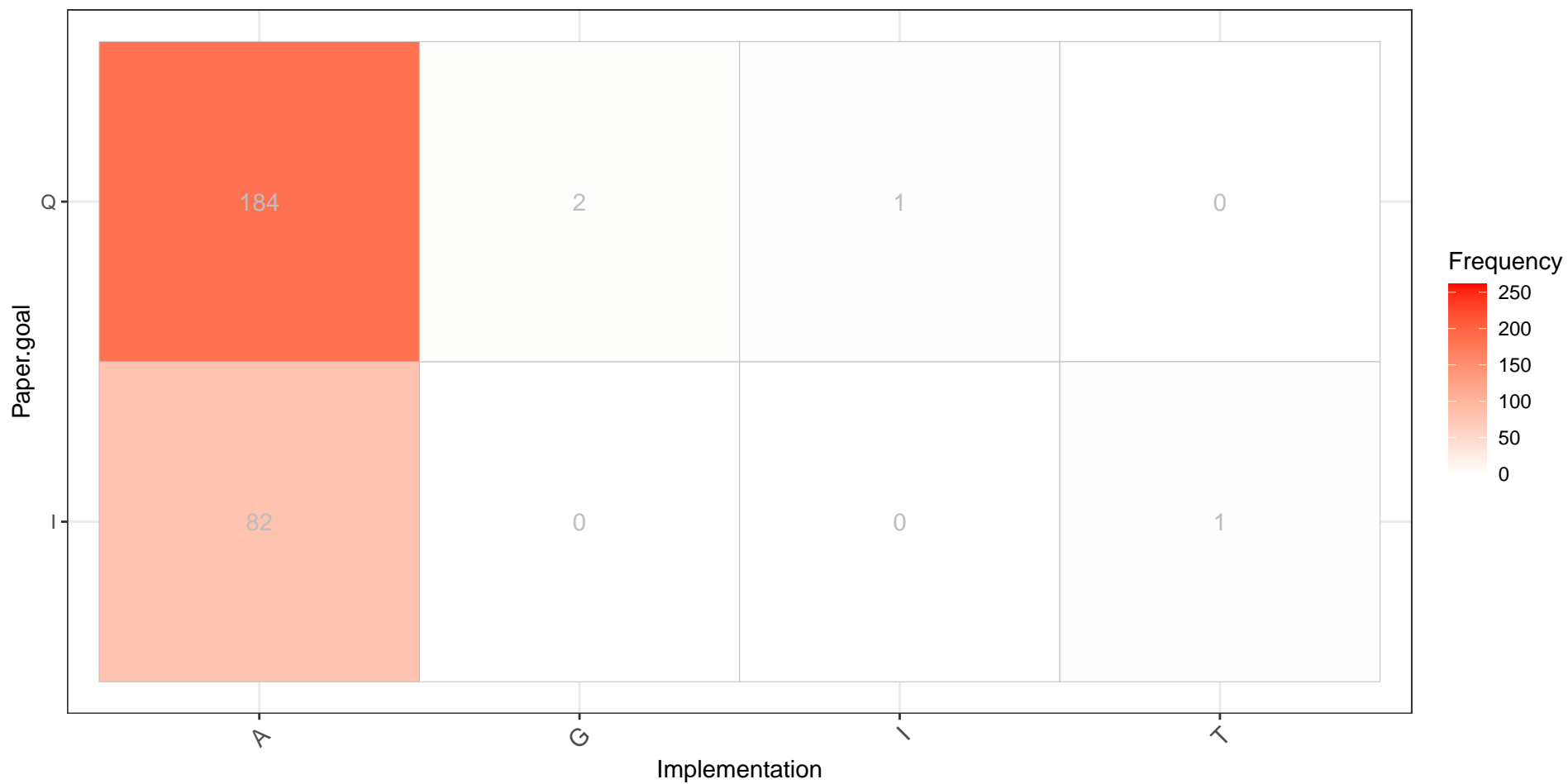
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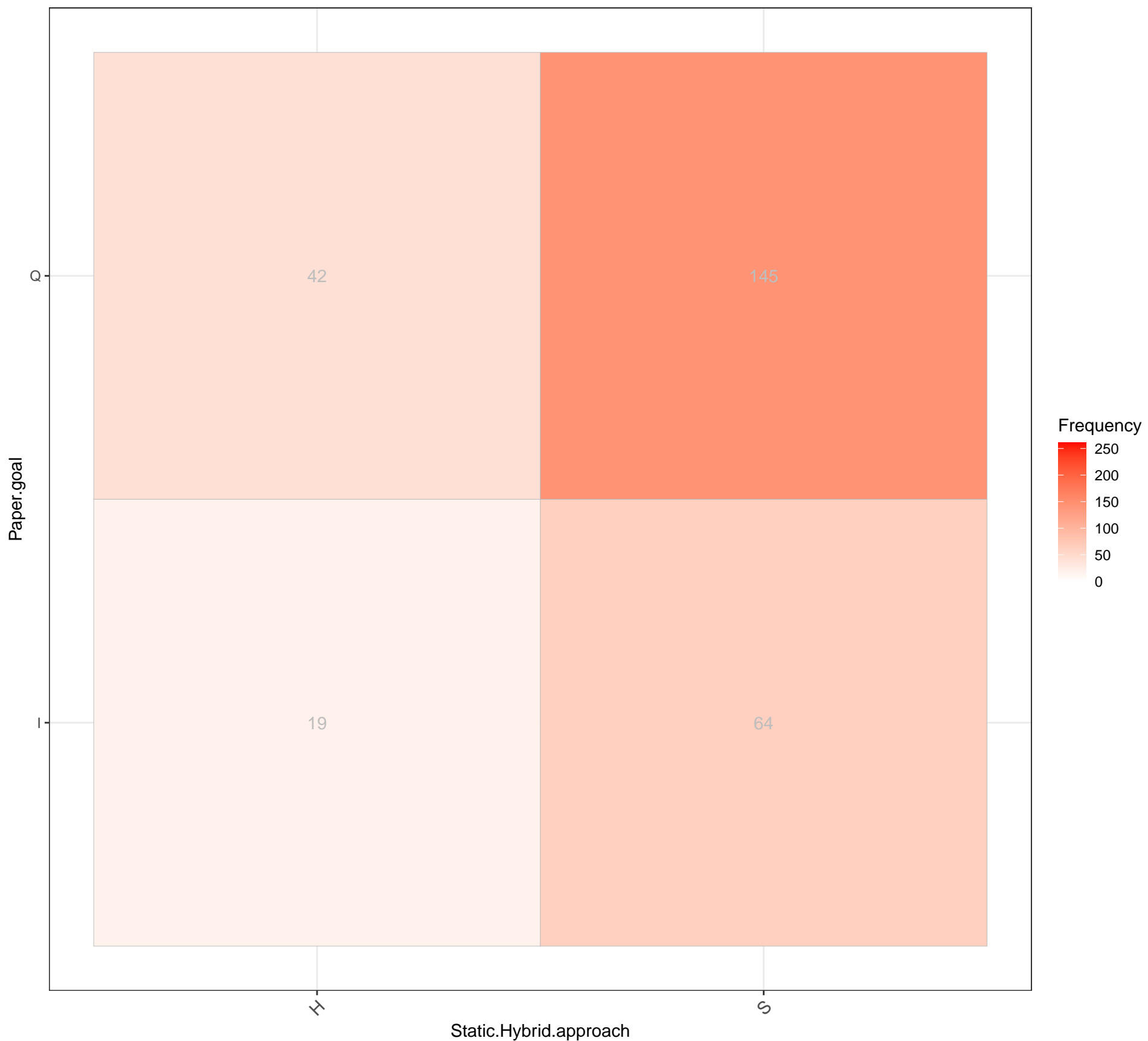
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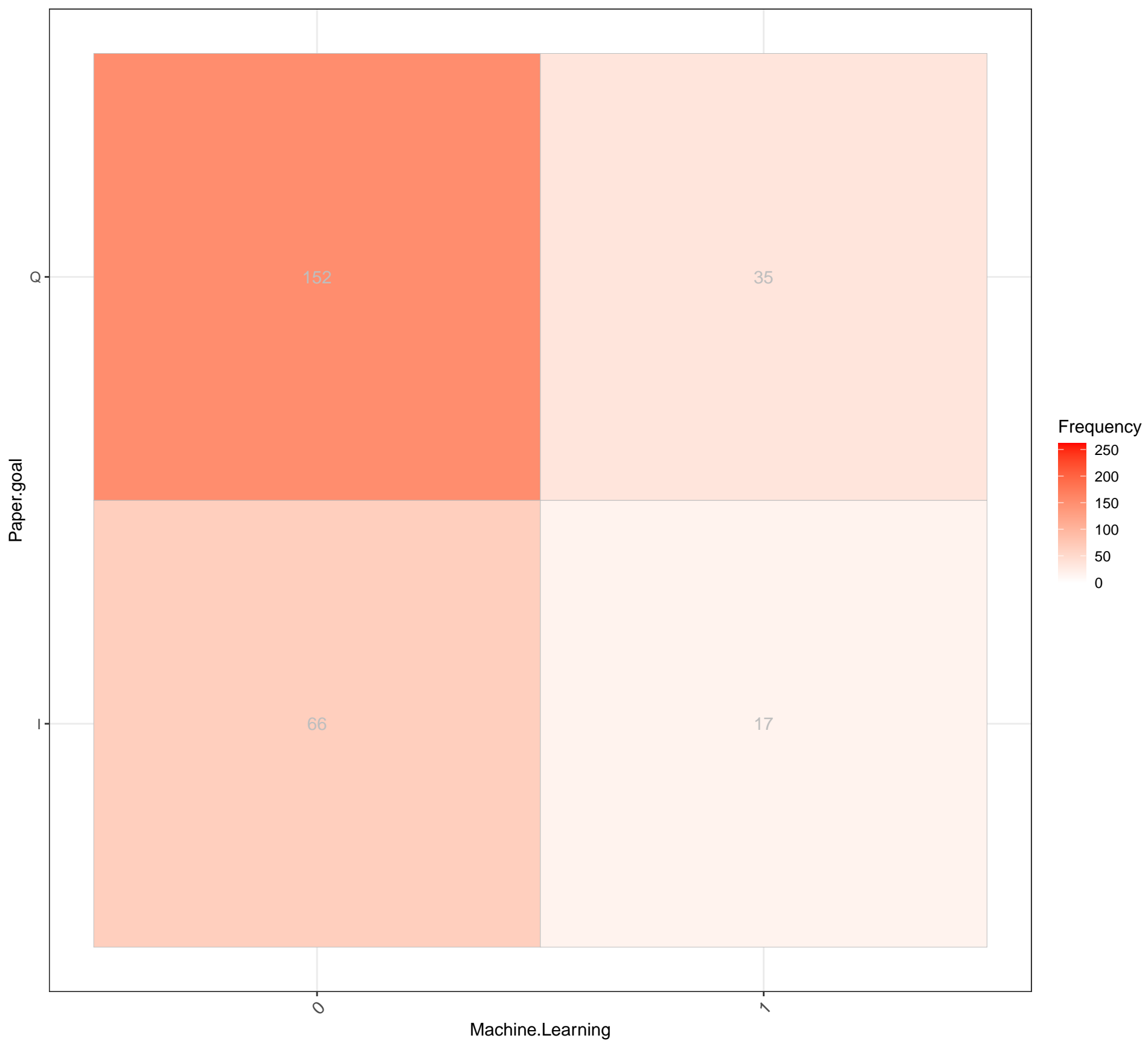
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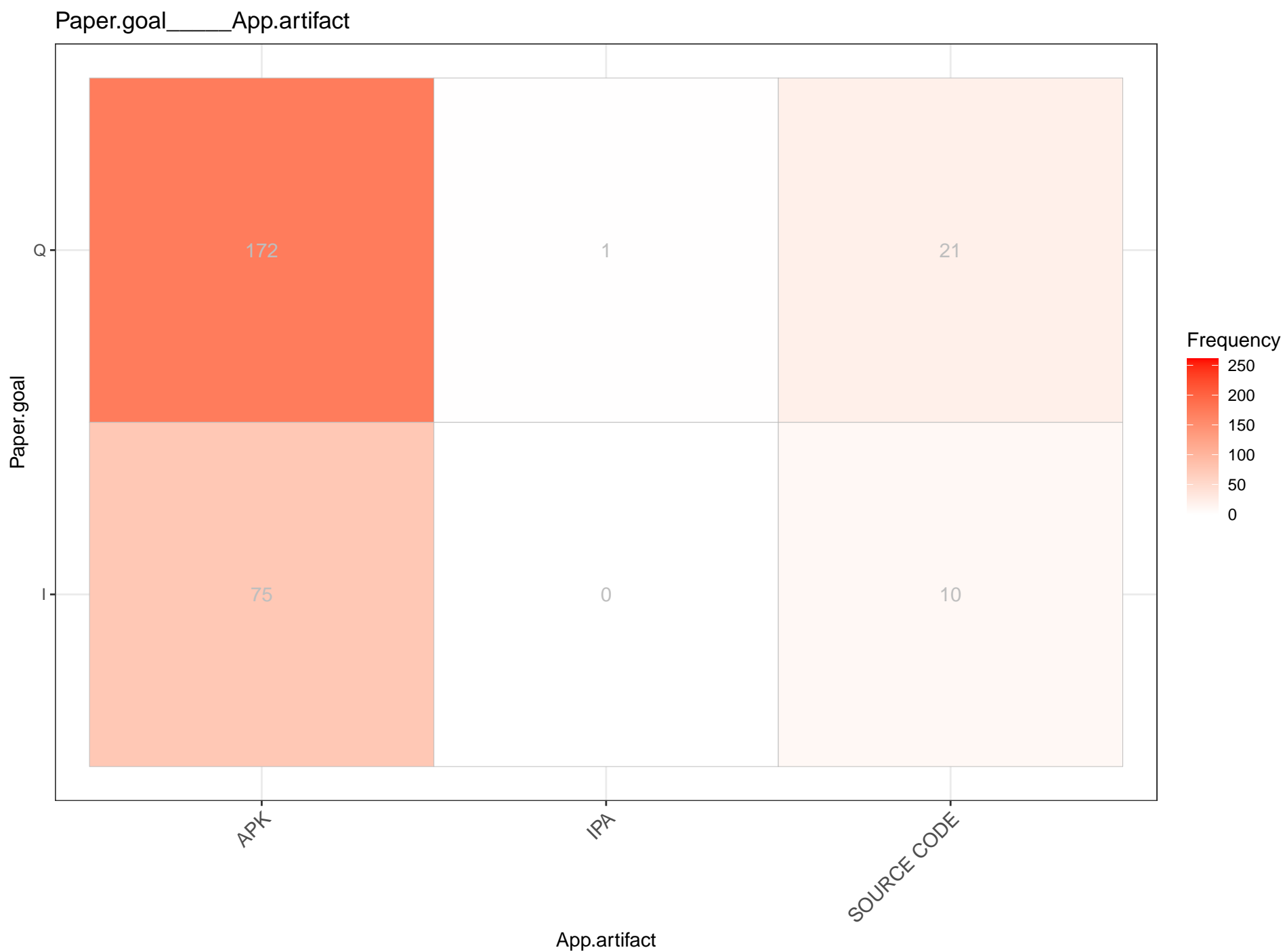


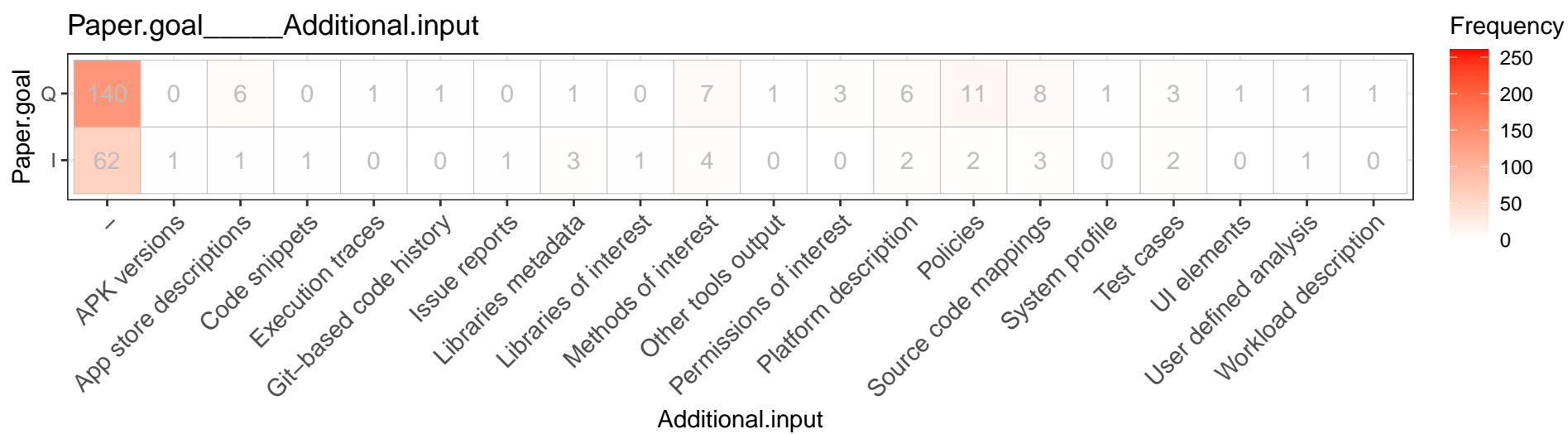
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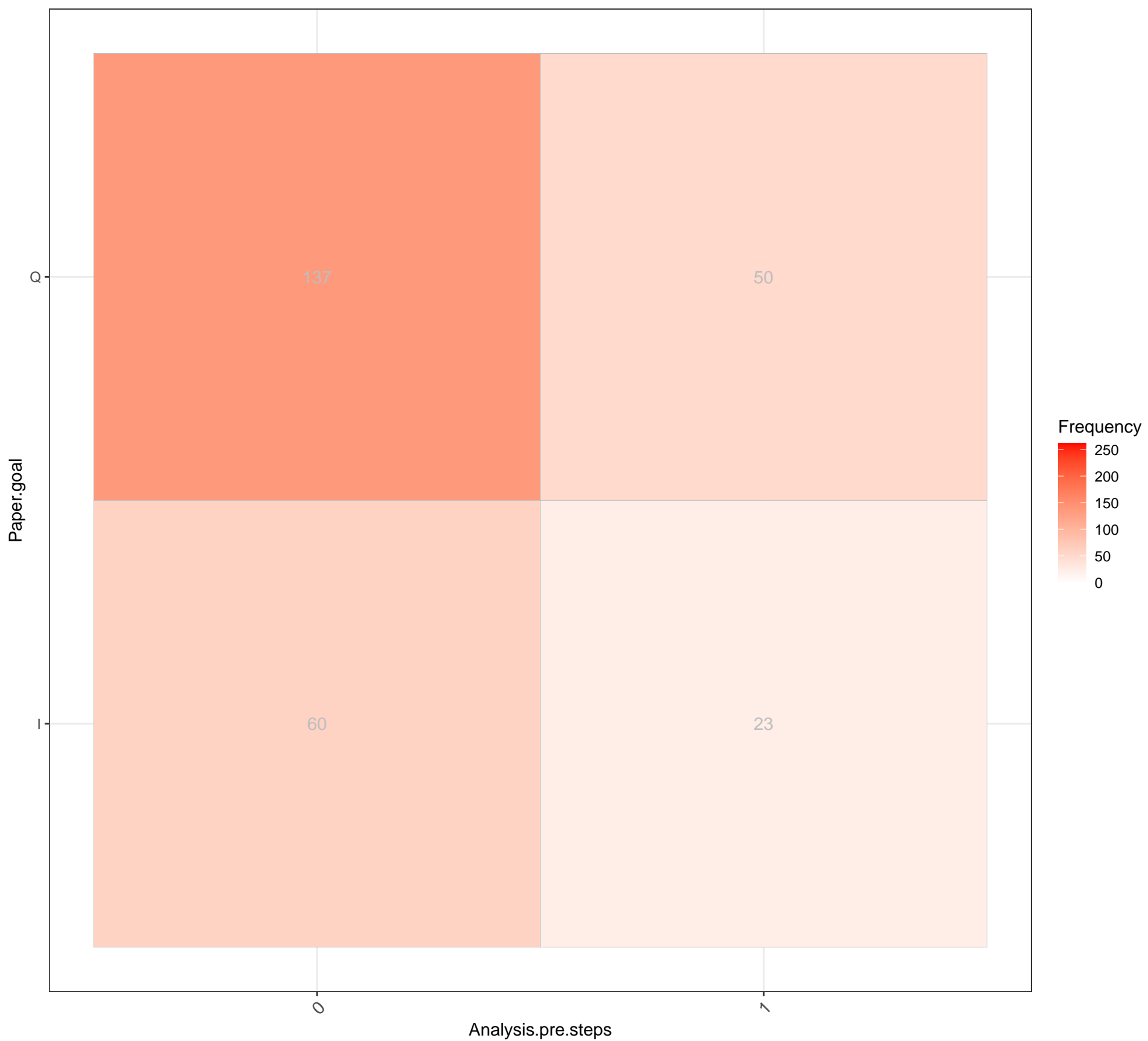
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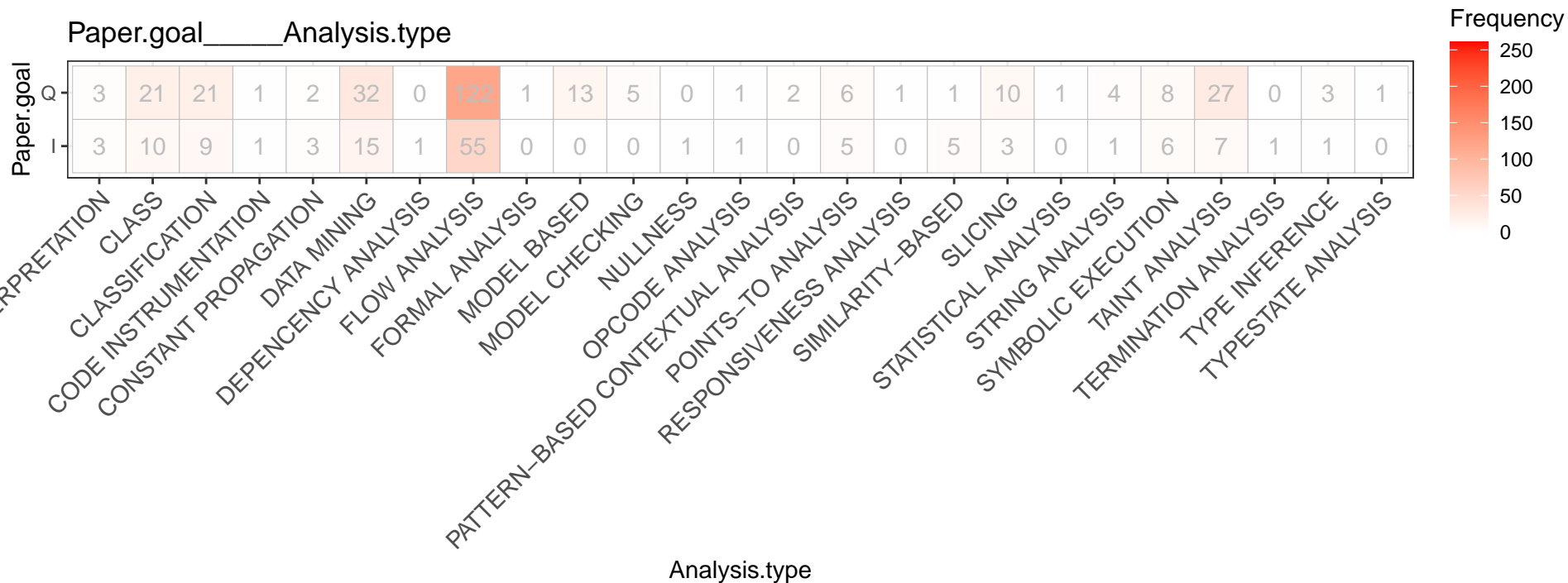




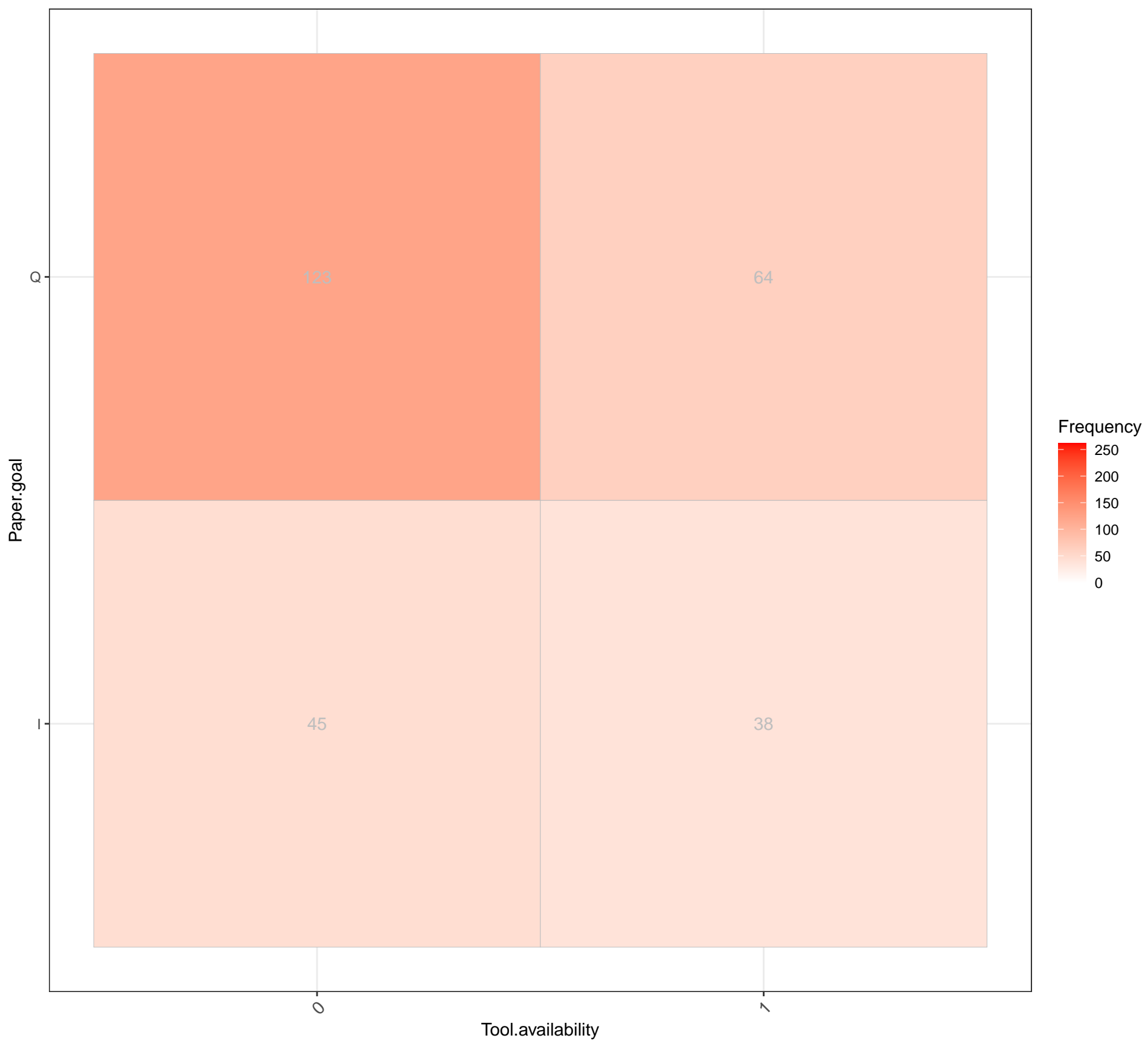


Paper.goal_____Analysis.pre.steps

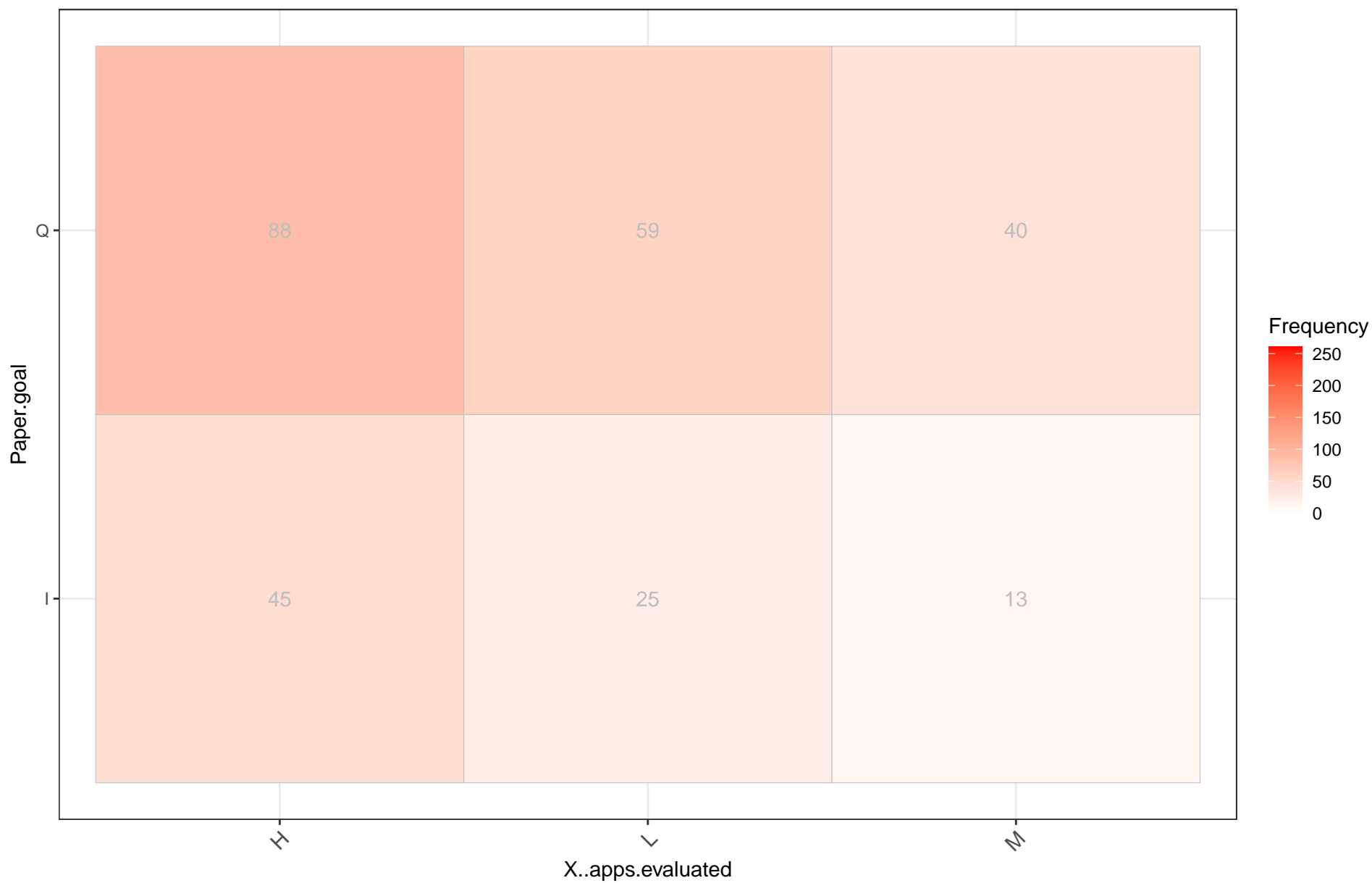




Paper.goal_____Tool.availability



Paper.goal_____X..apps.evaluated



Paper.goal_____Toy.Real.apps

Paper.goal

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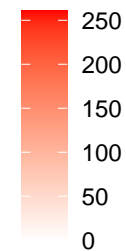
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Toy.Real.apps

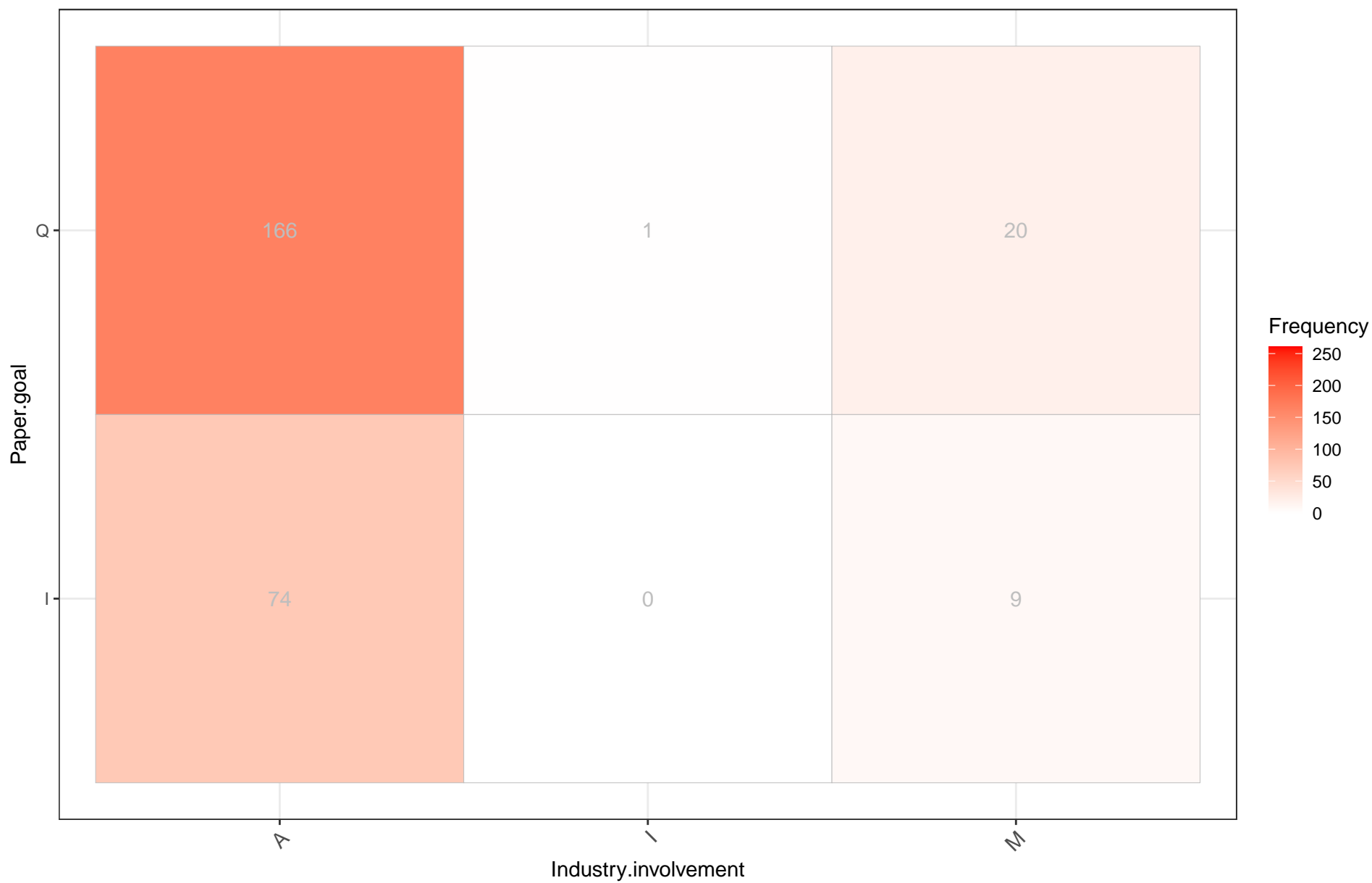
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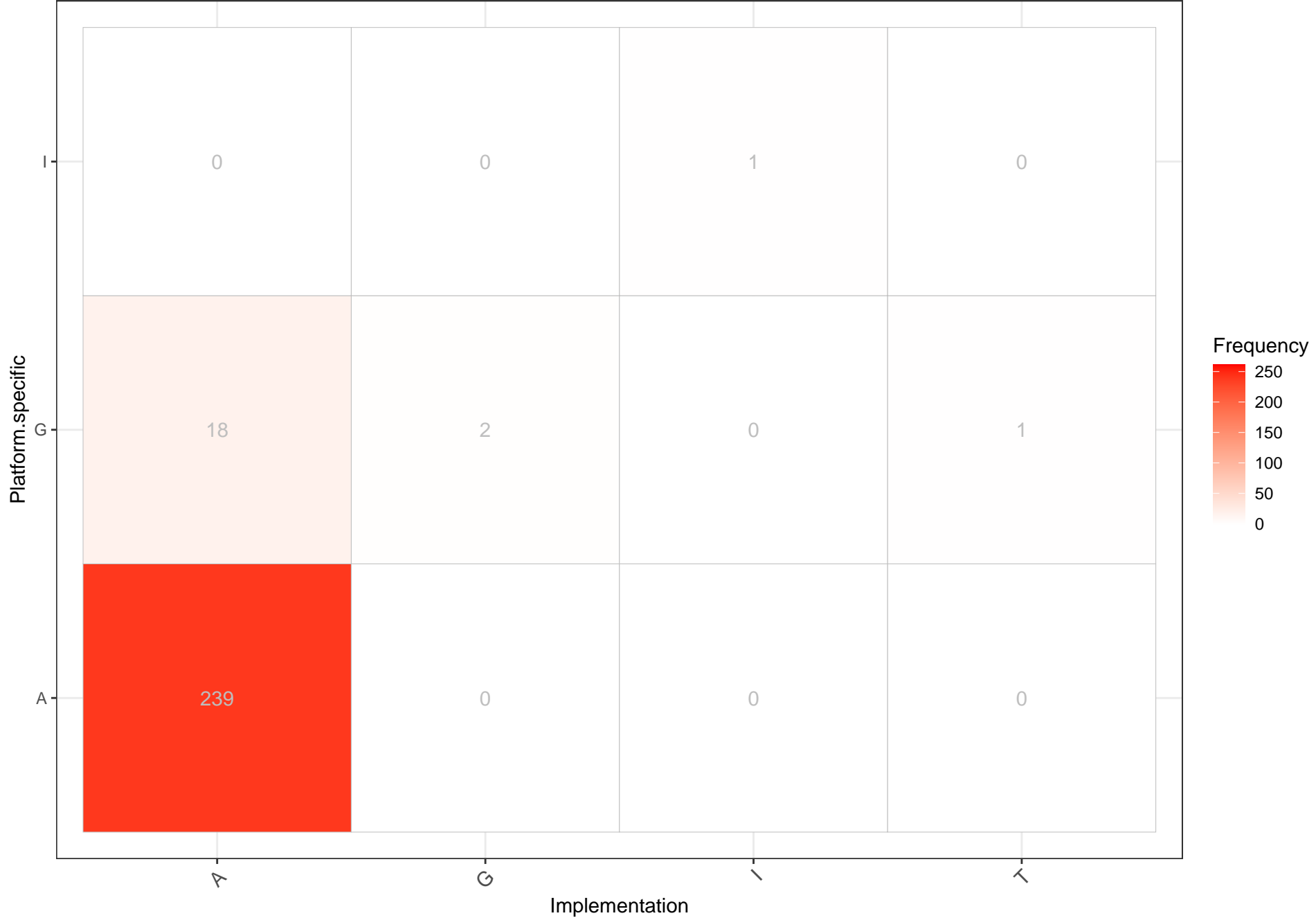
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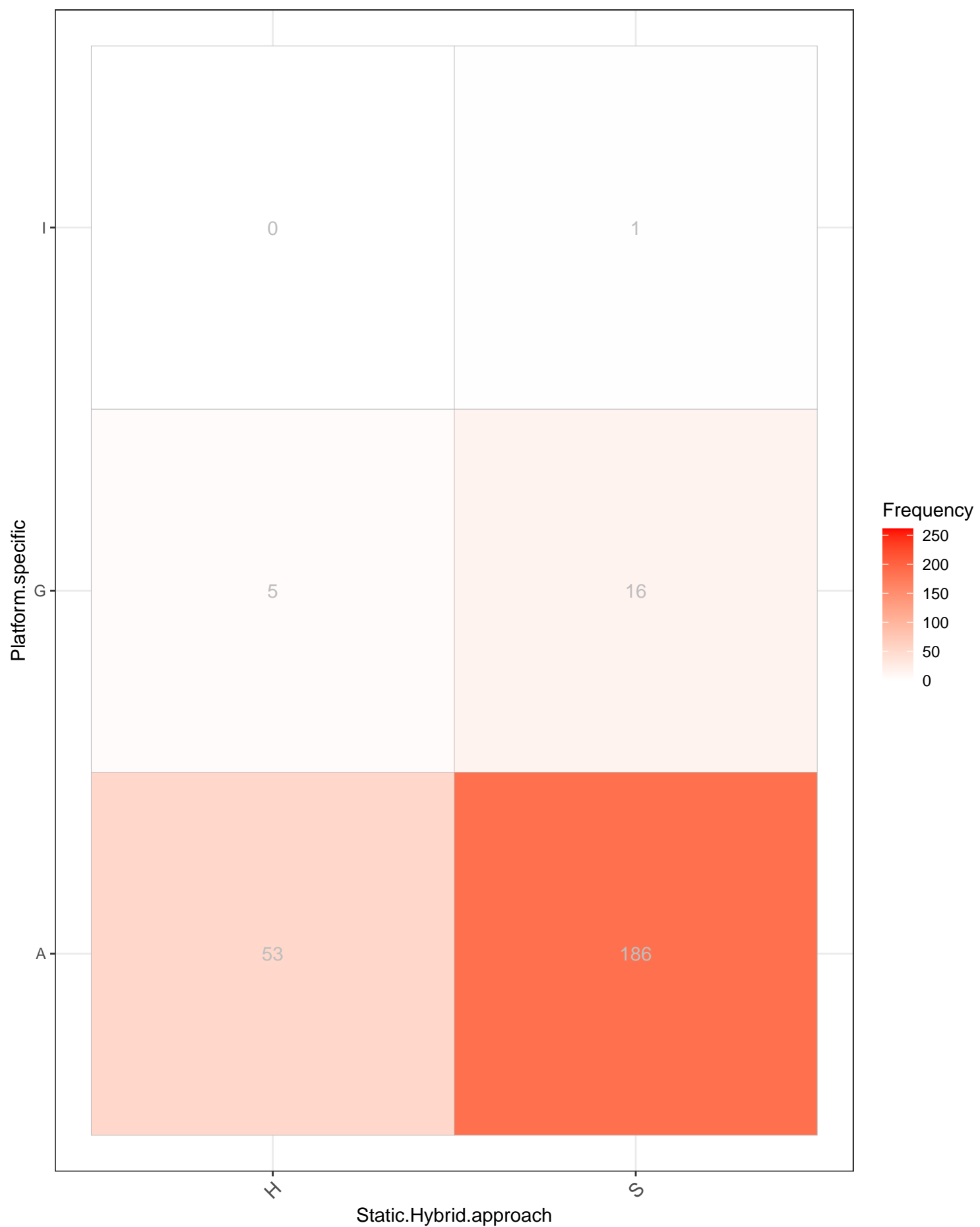
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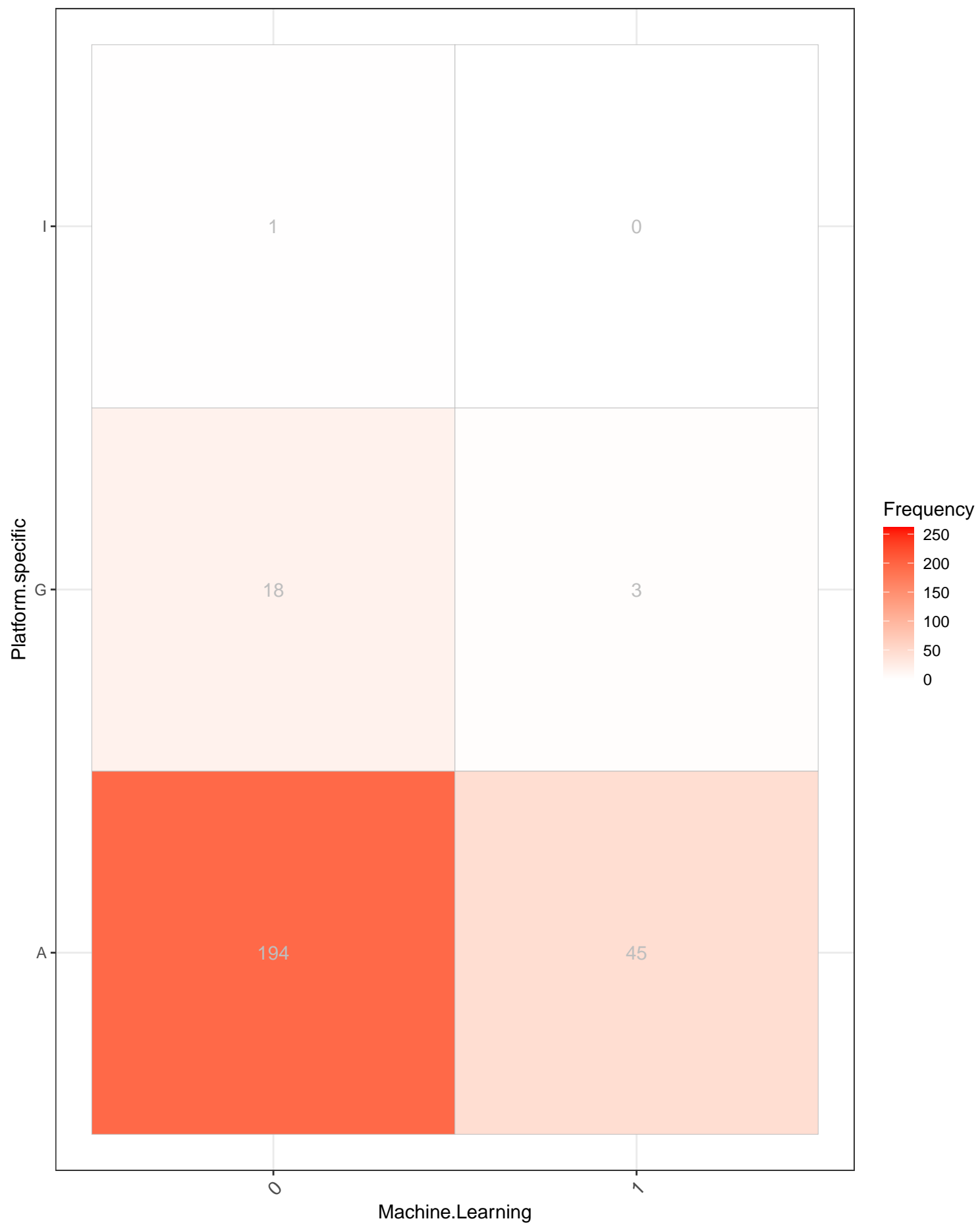
Platform.specific_____Implementation



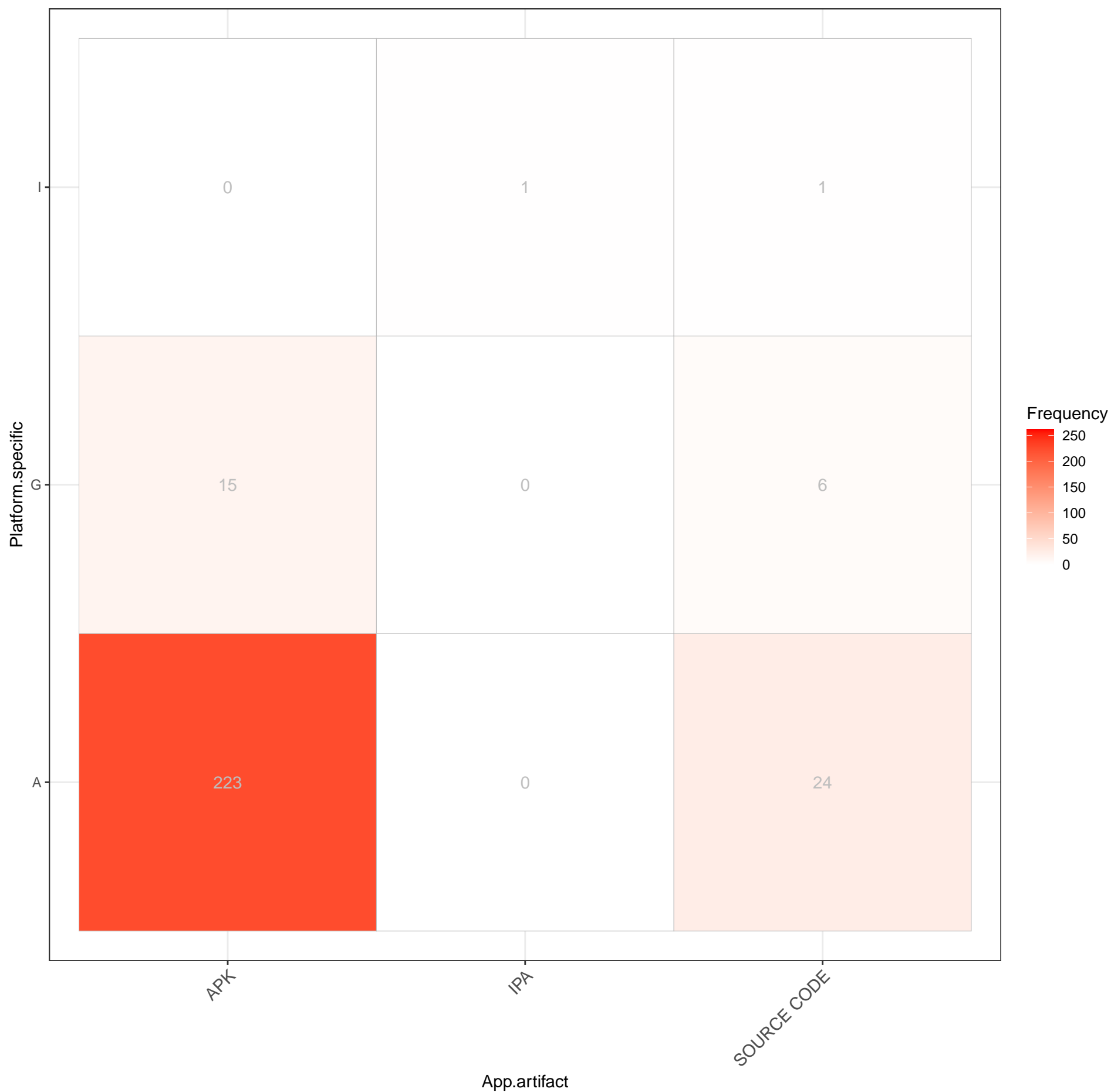
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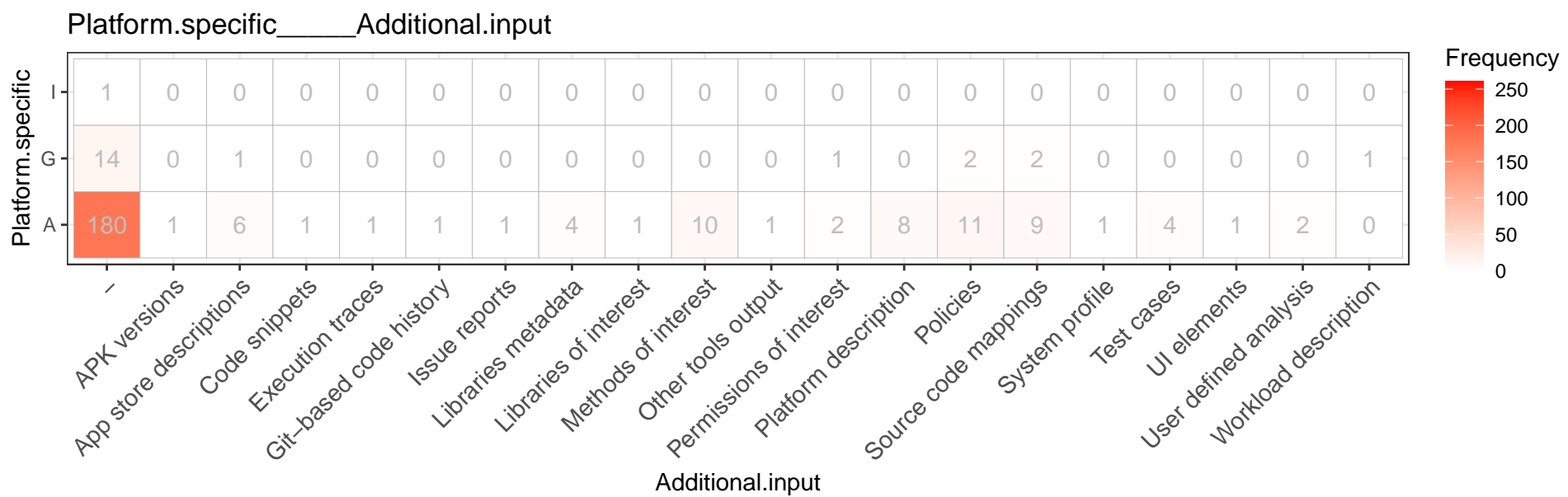


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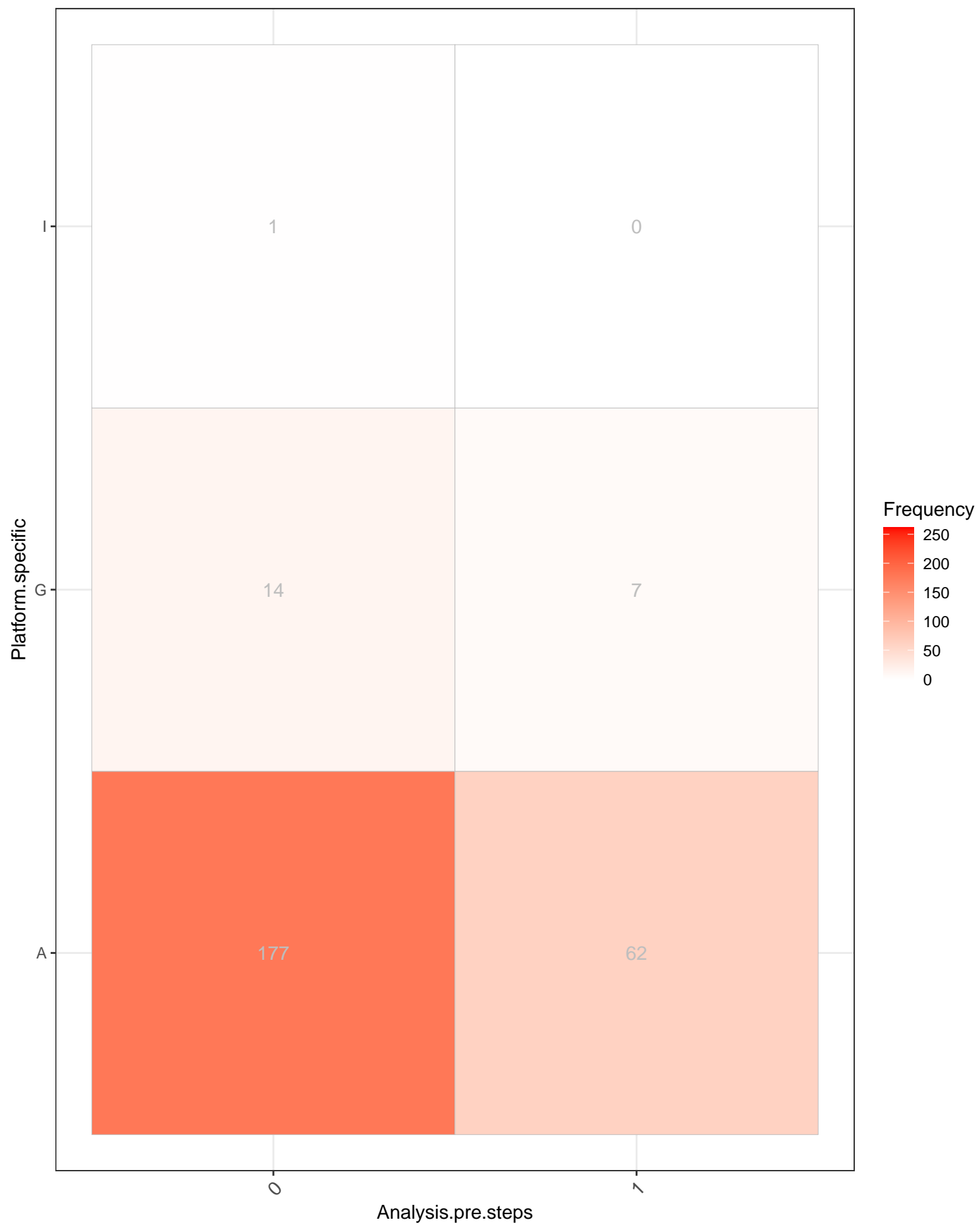


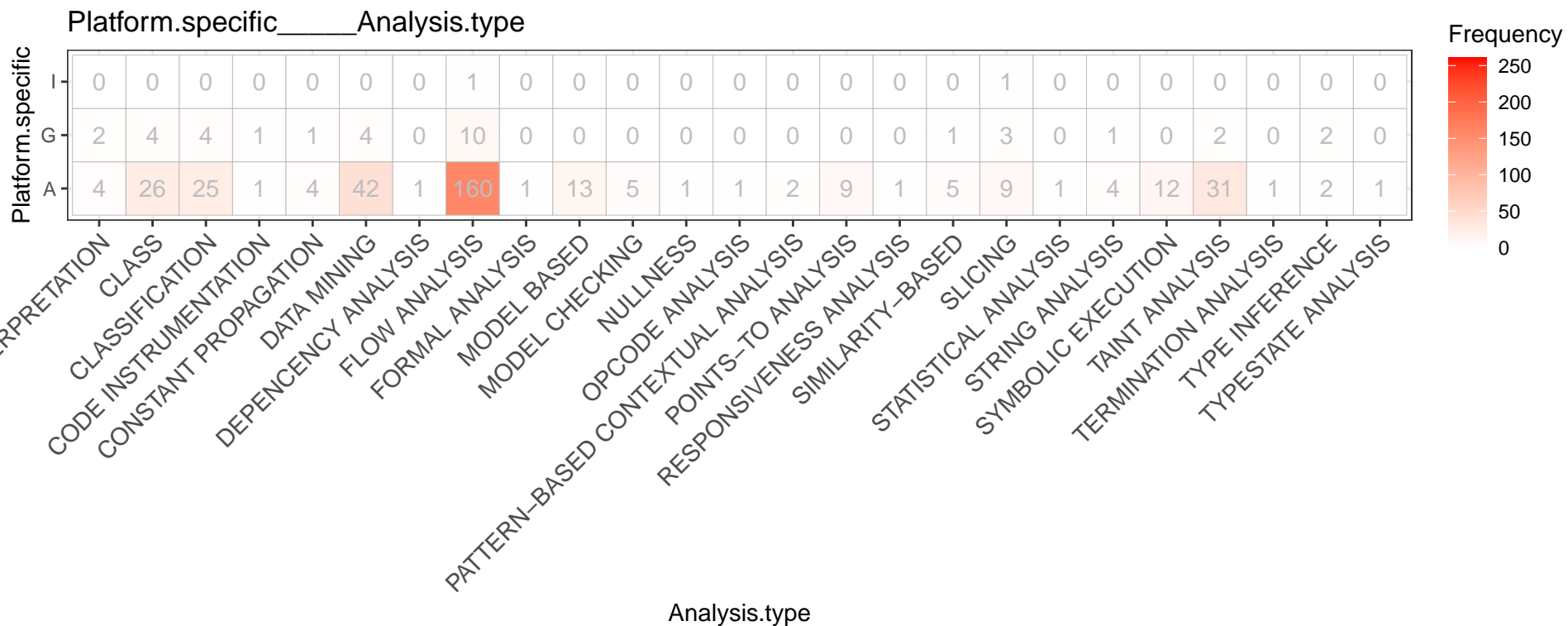
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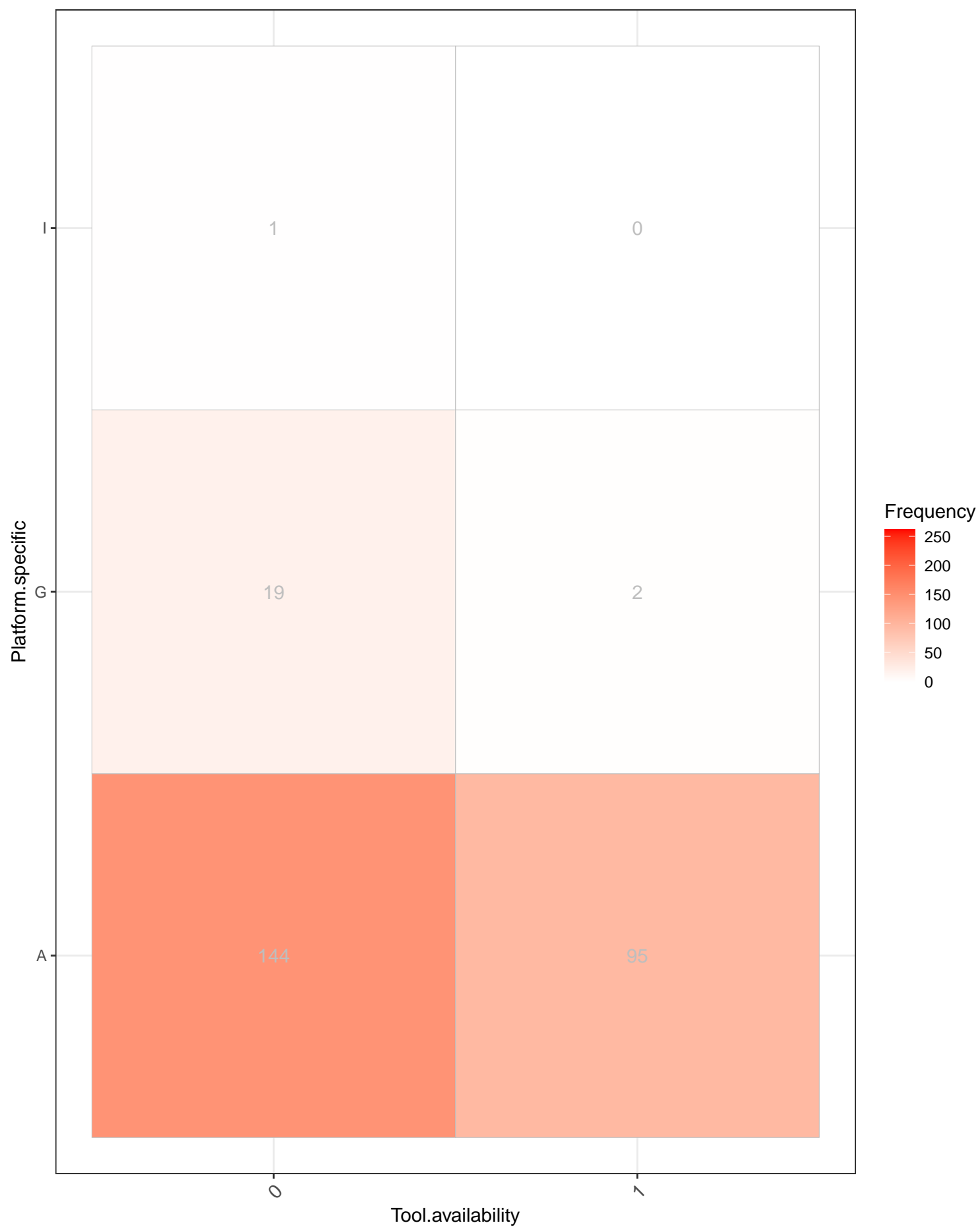


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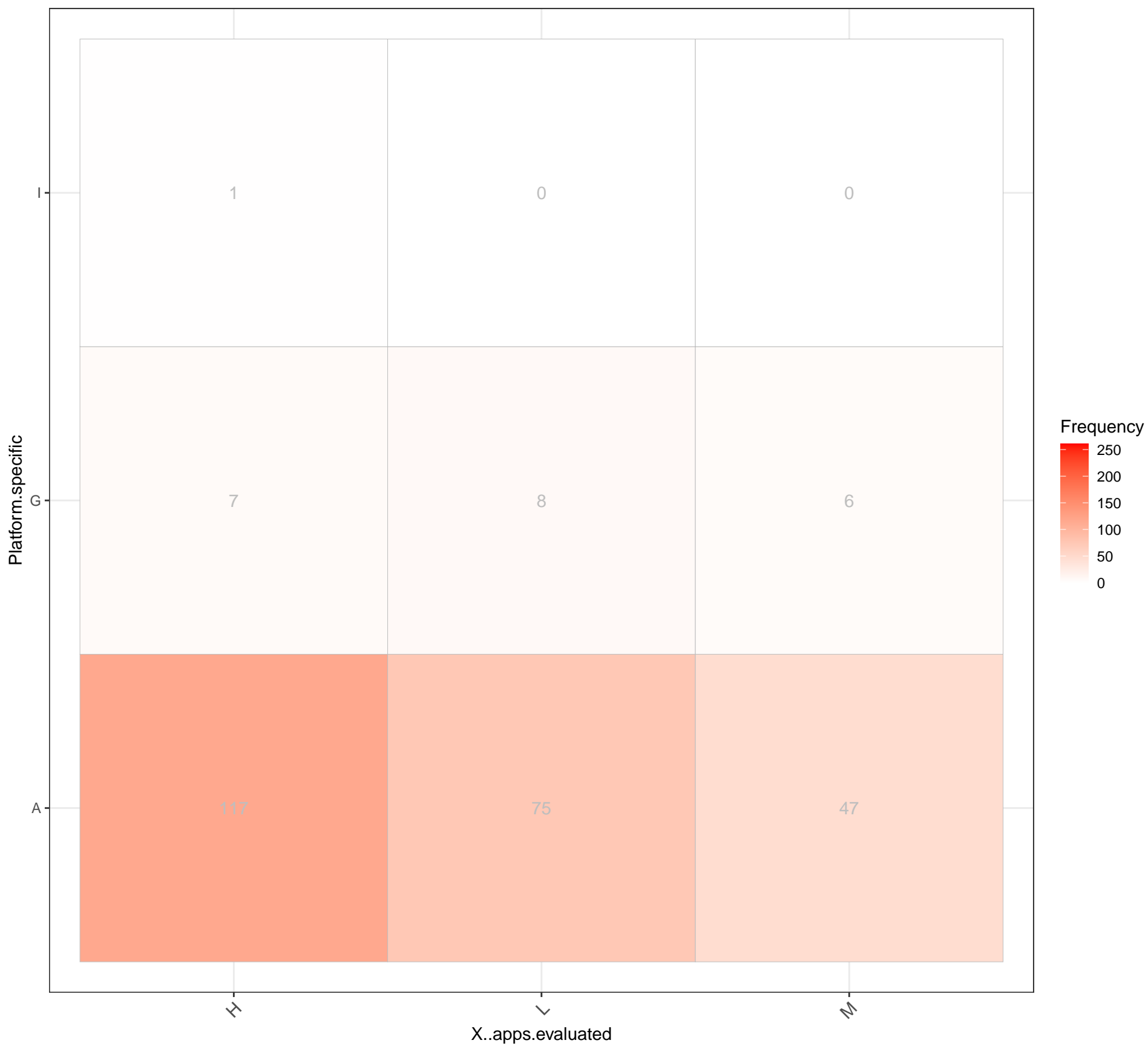




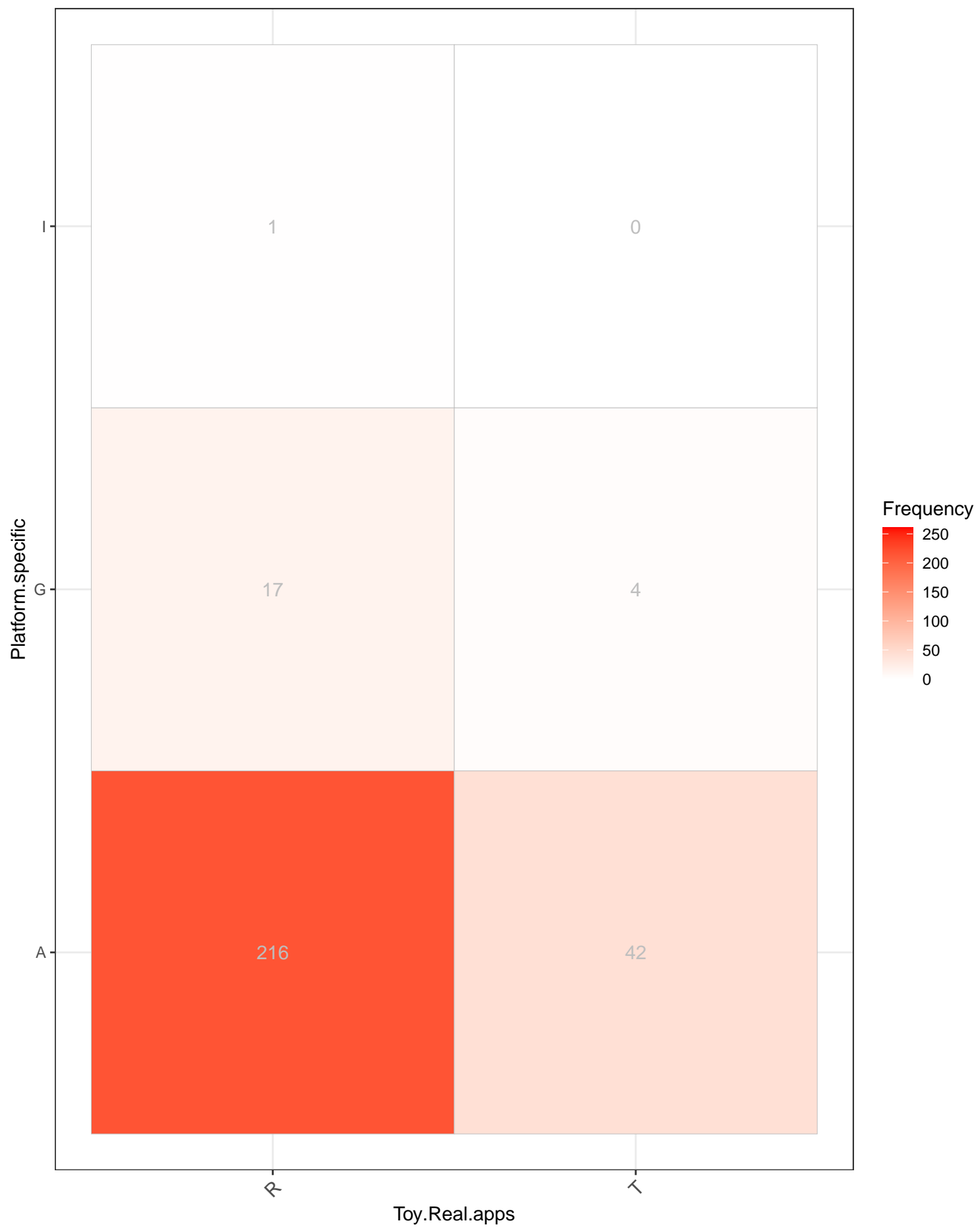
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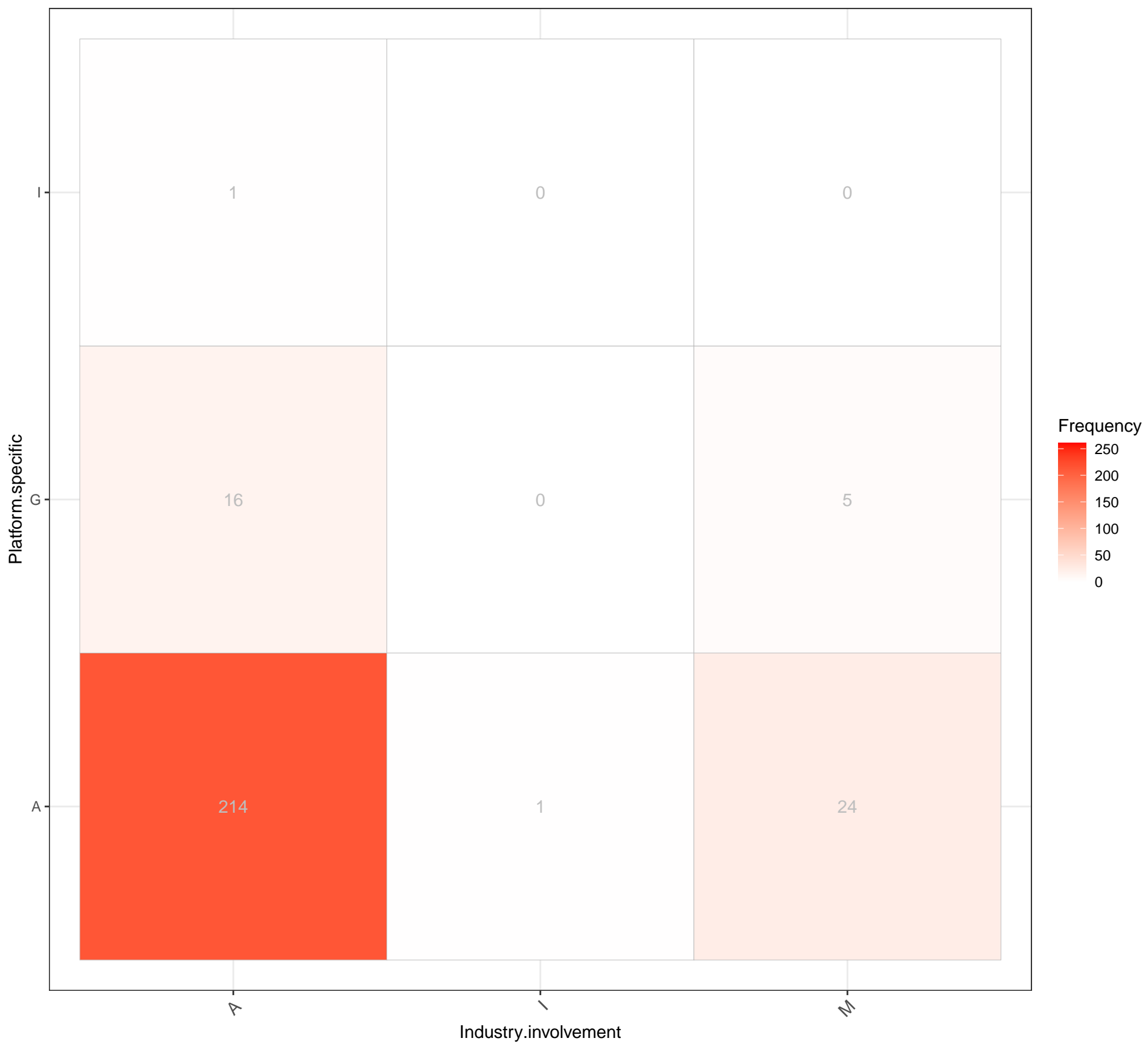
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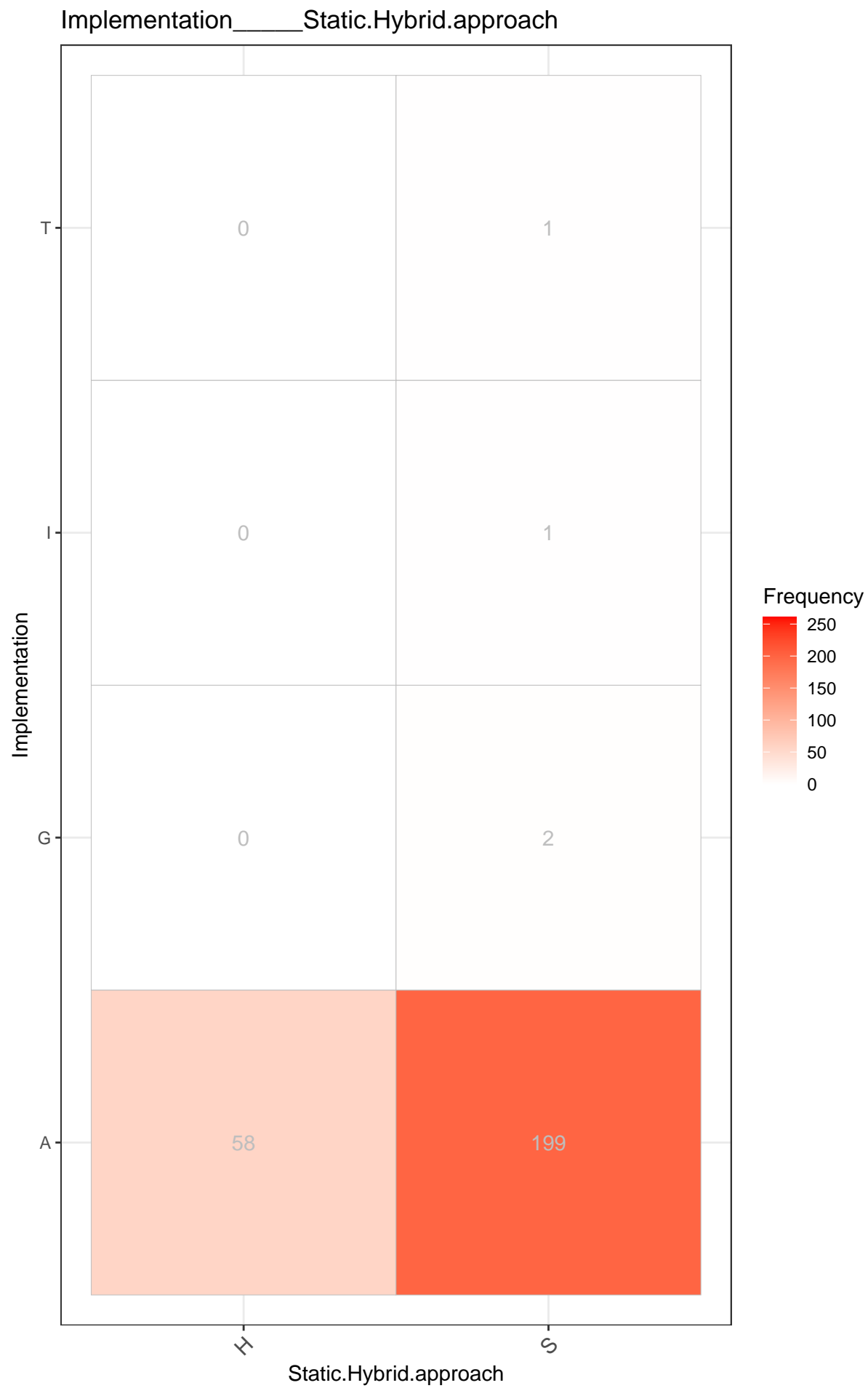


Platform.specific_____Toy.Real.apps

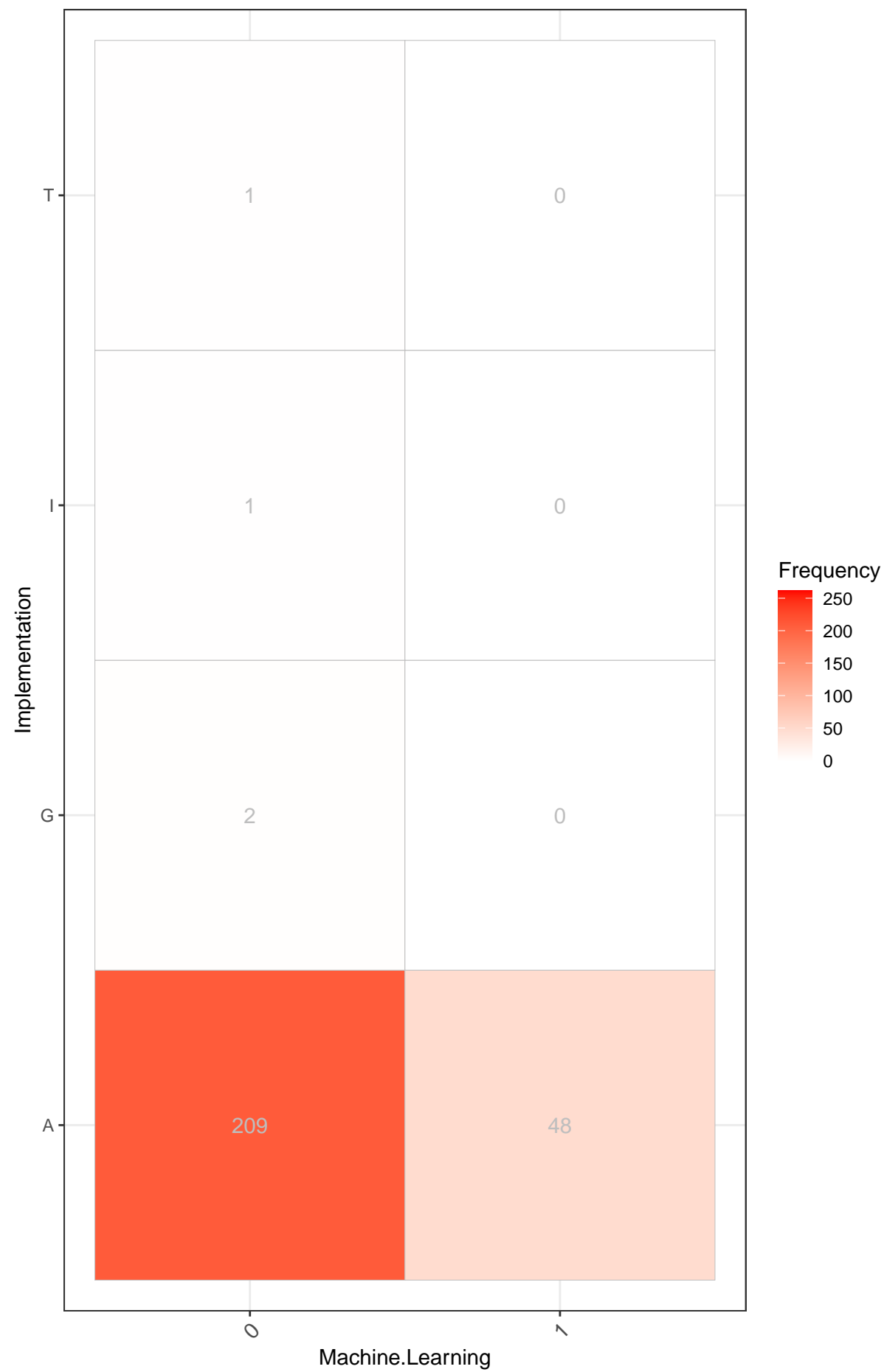


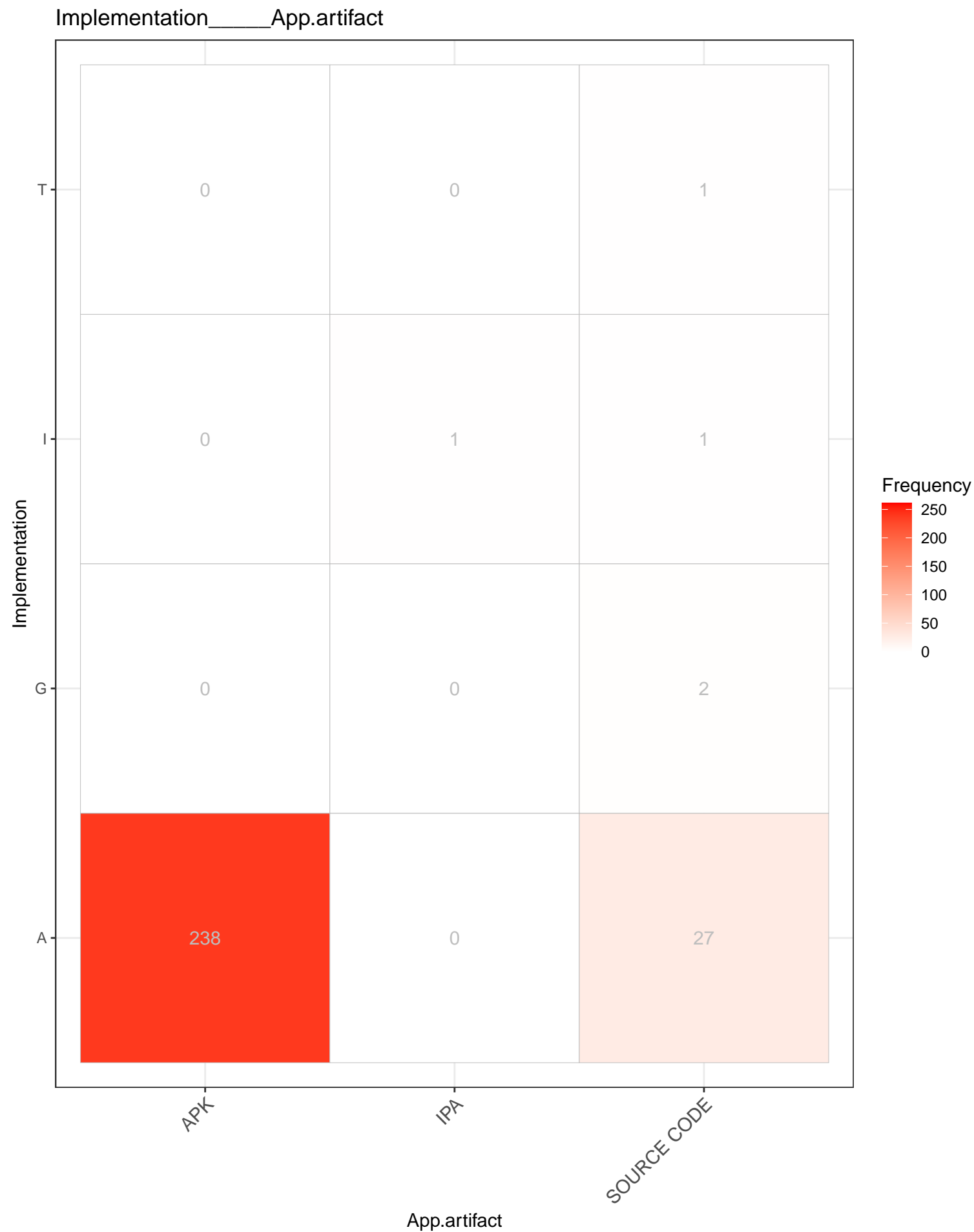
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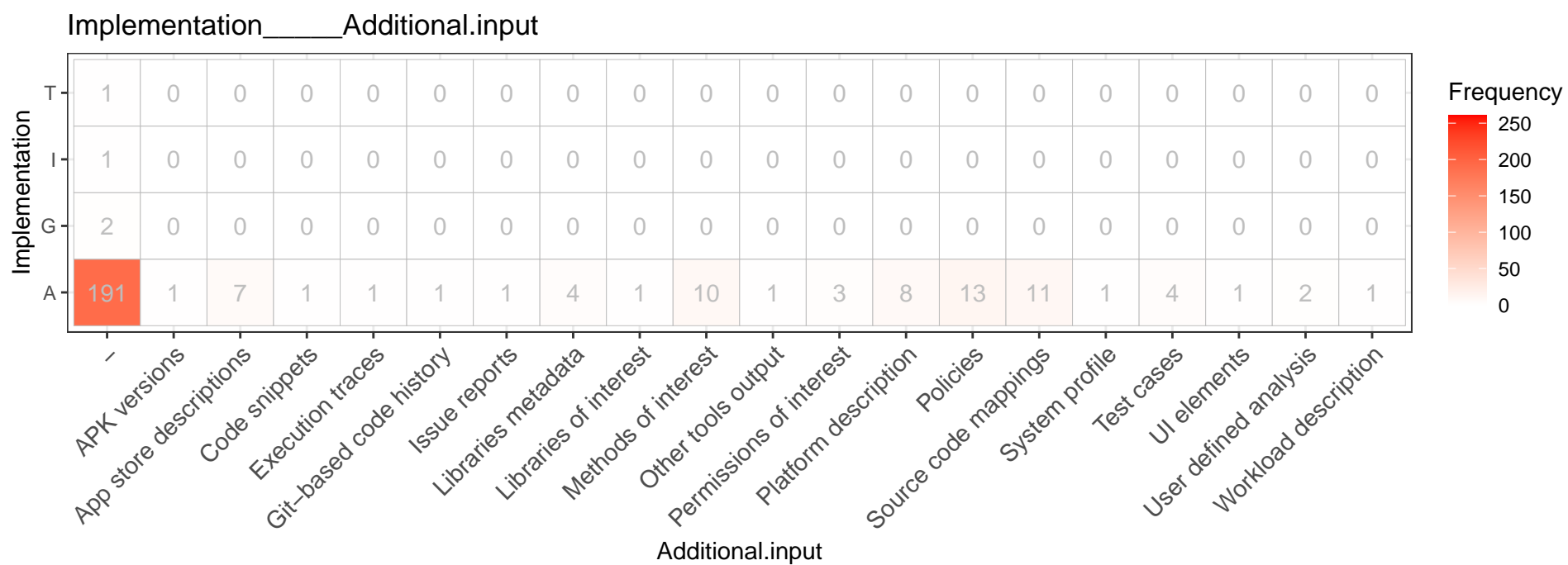


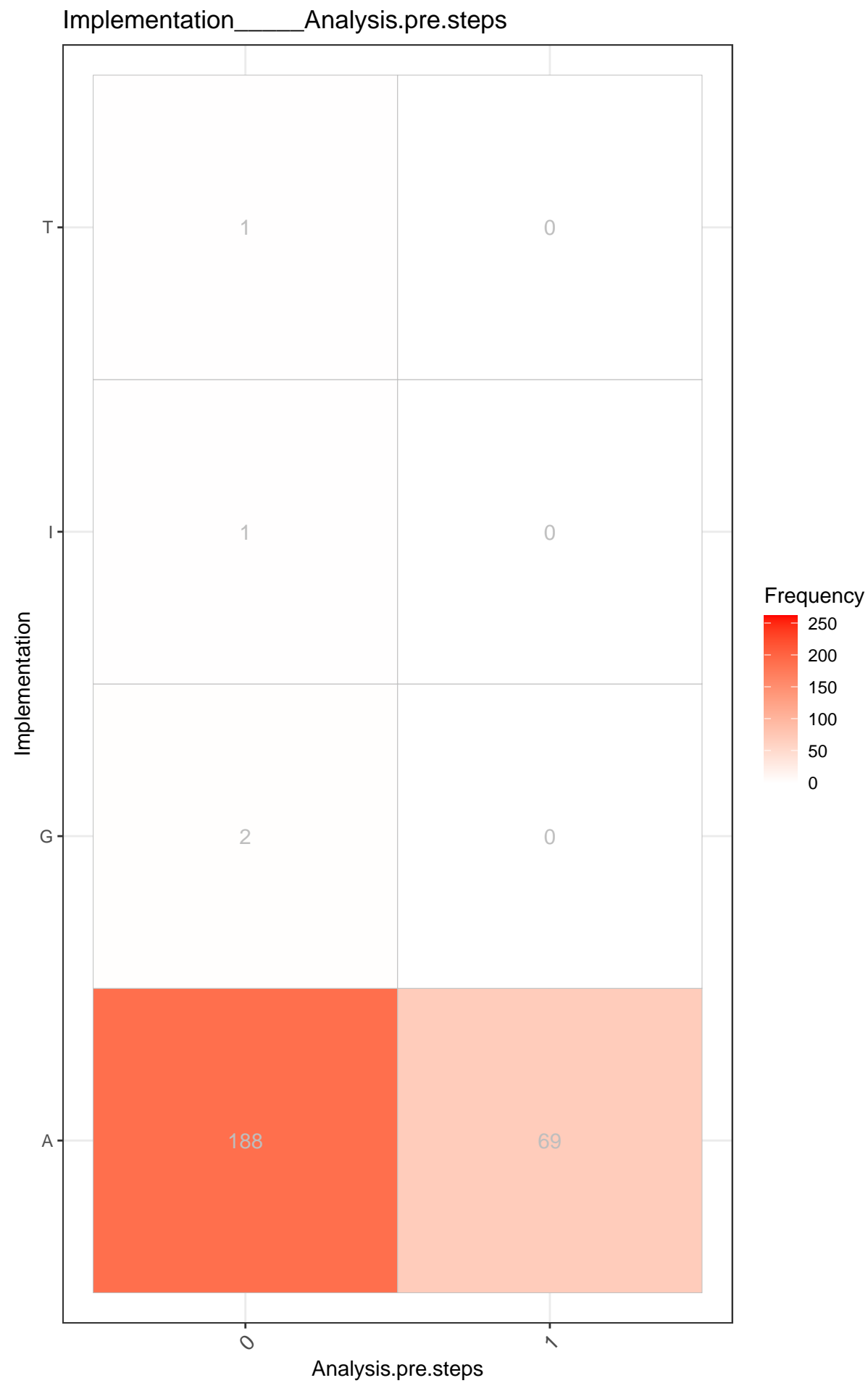


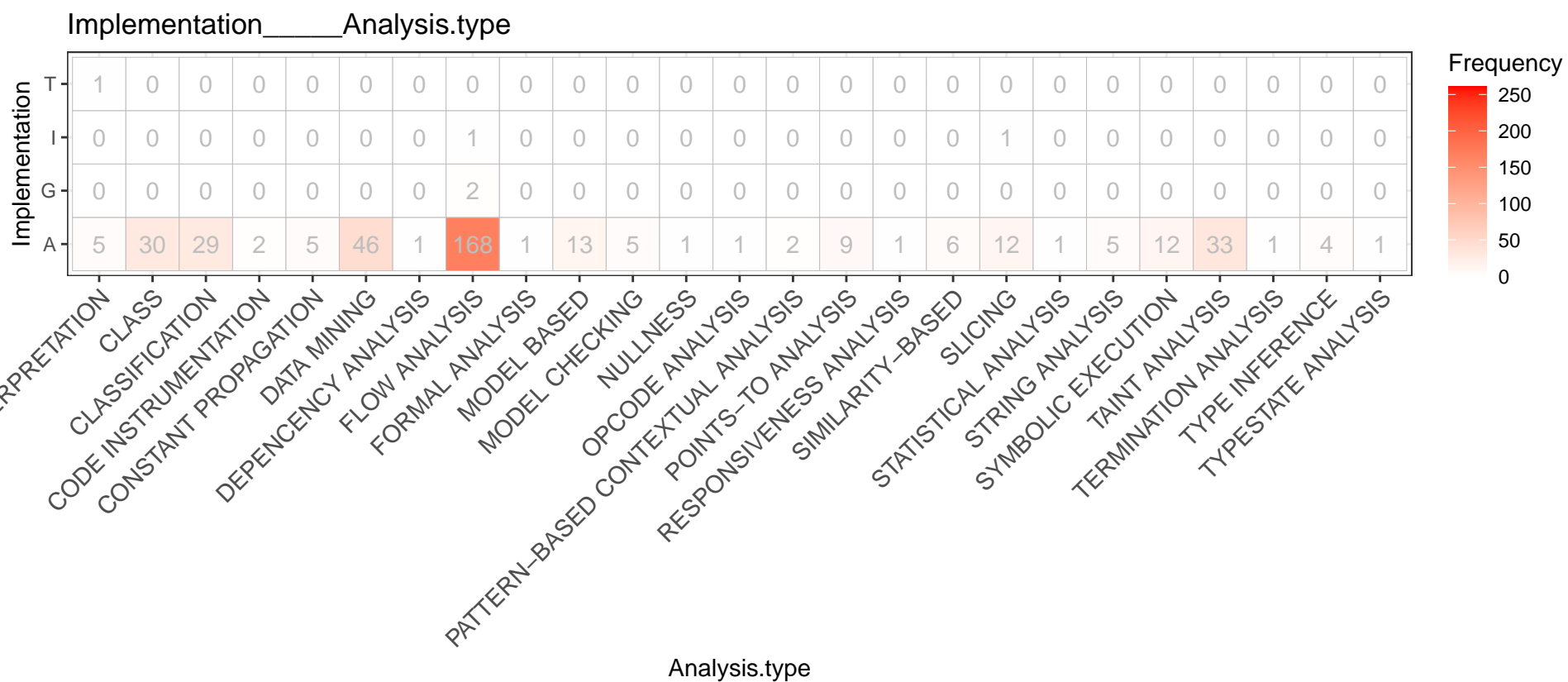
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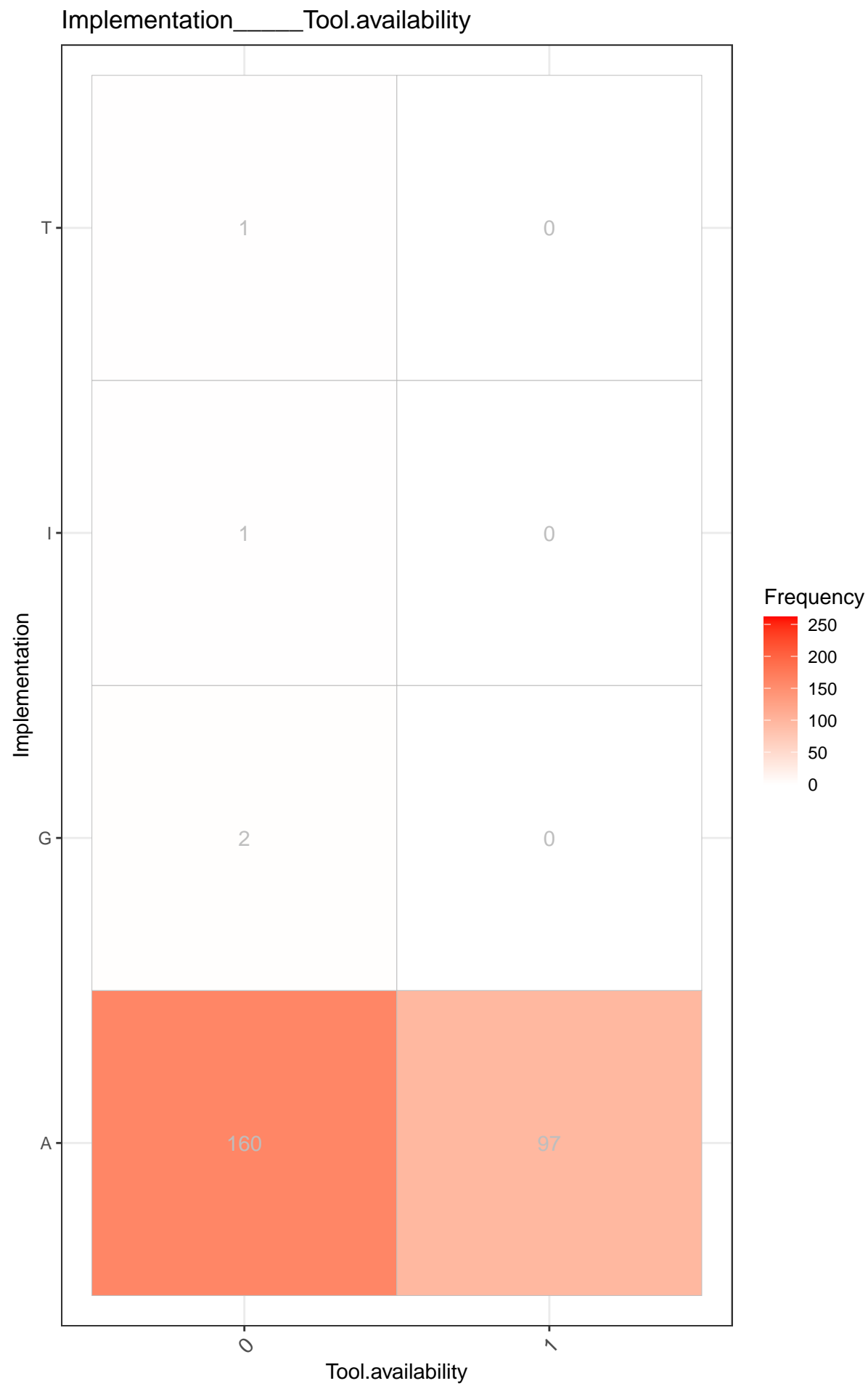




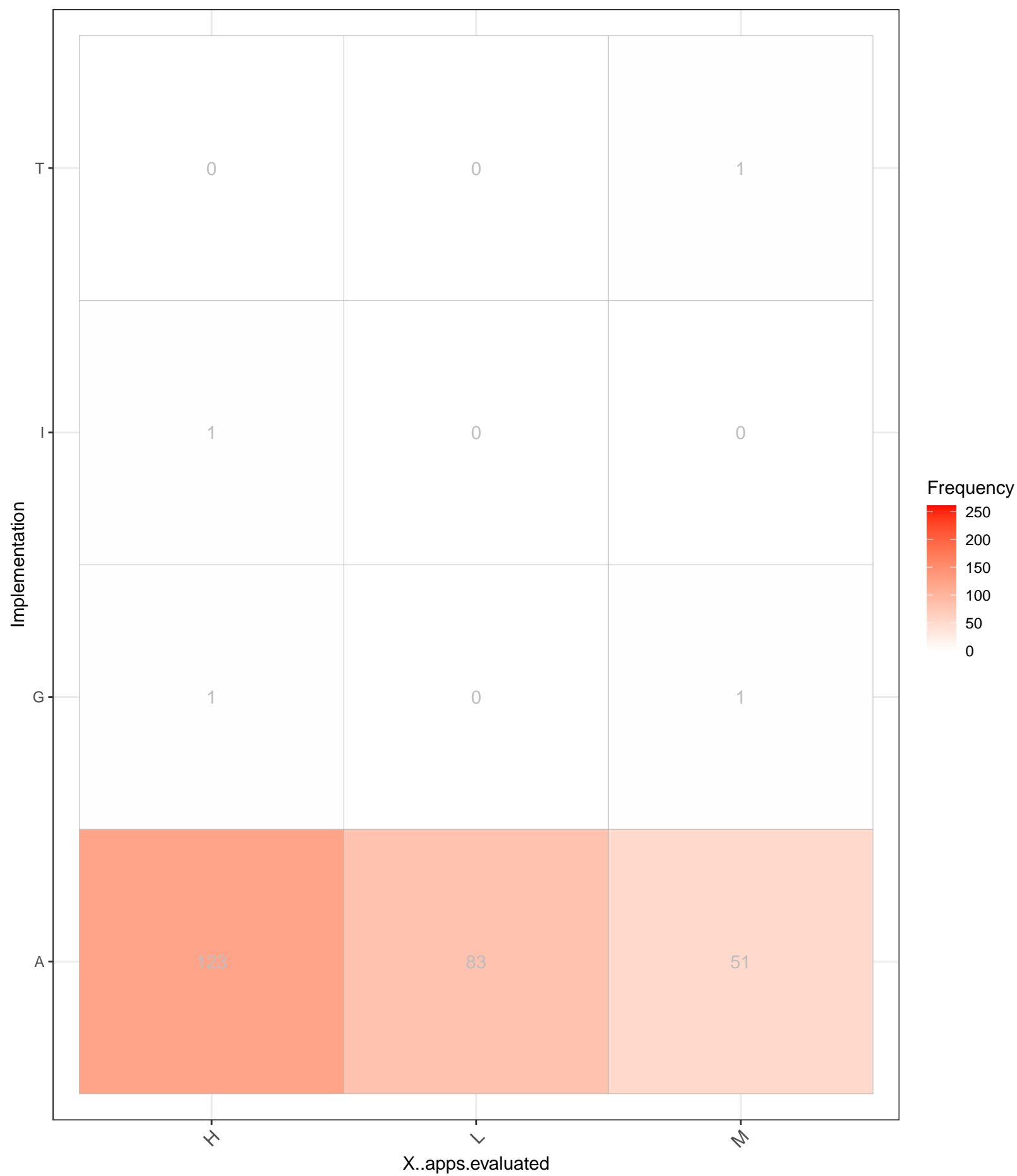




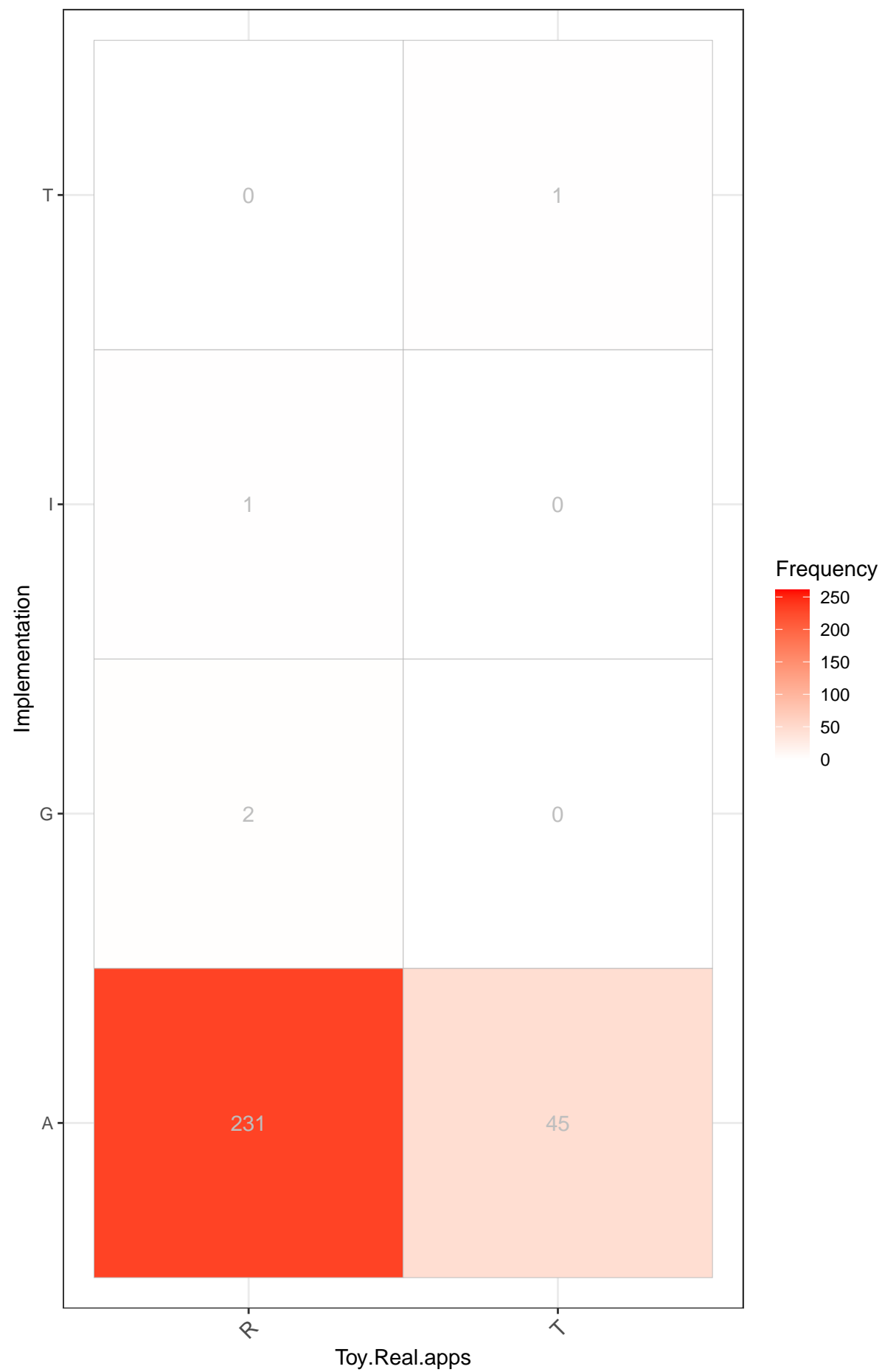




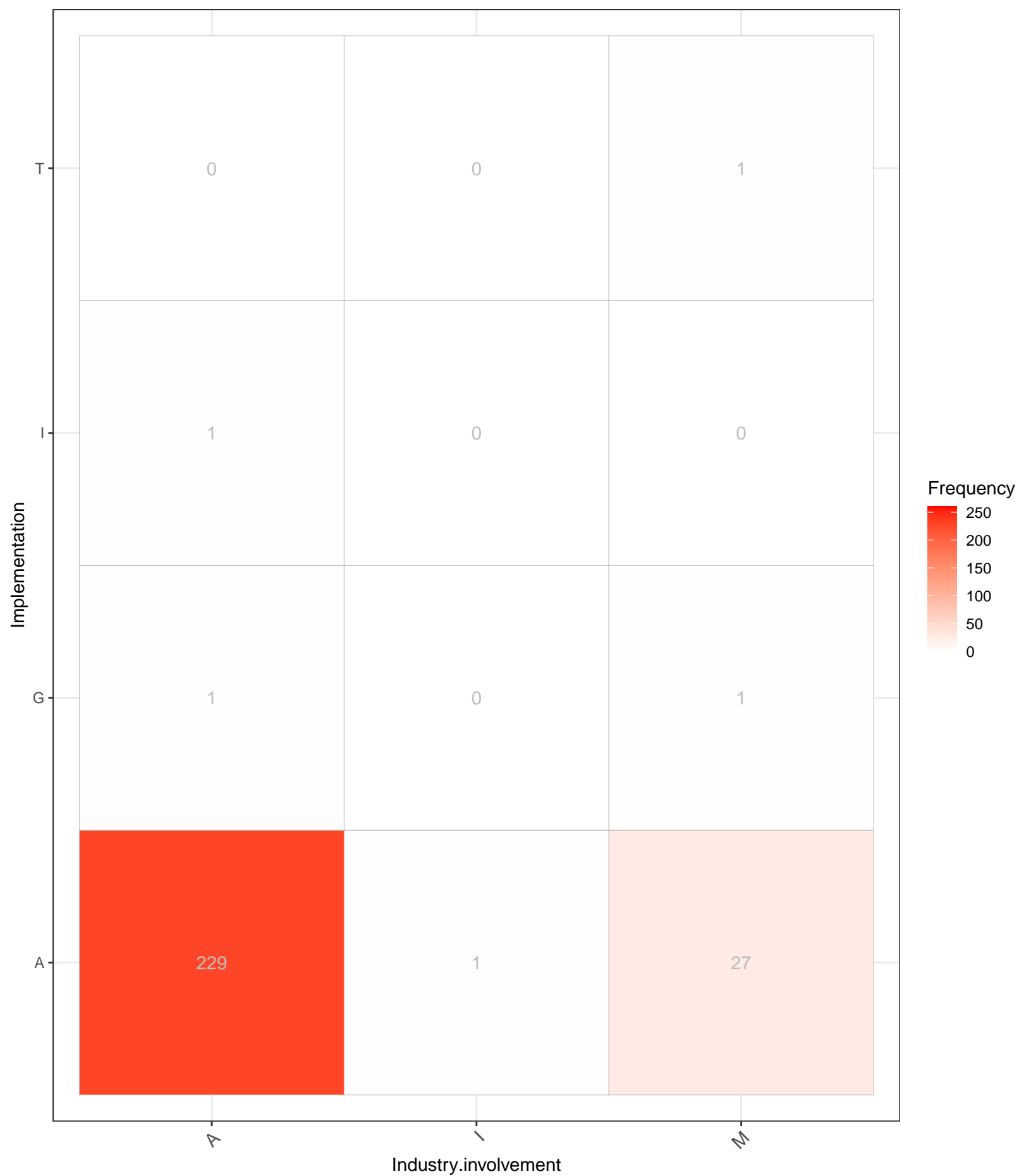
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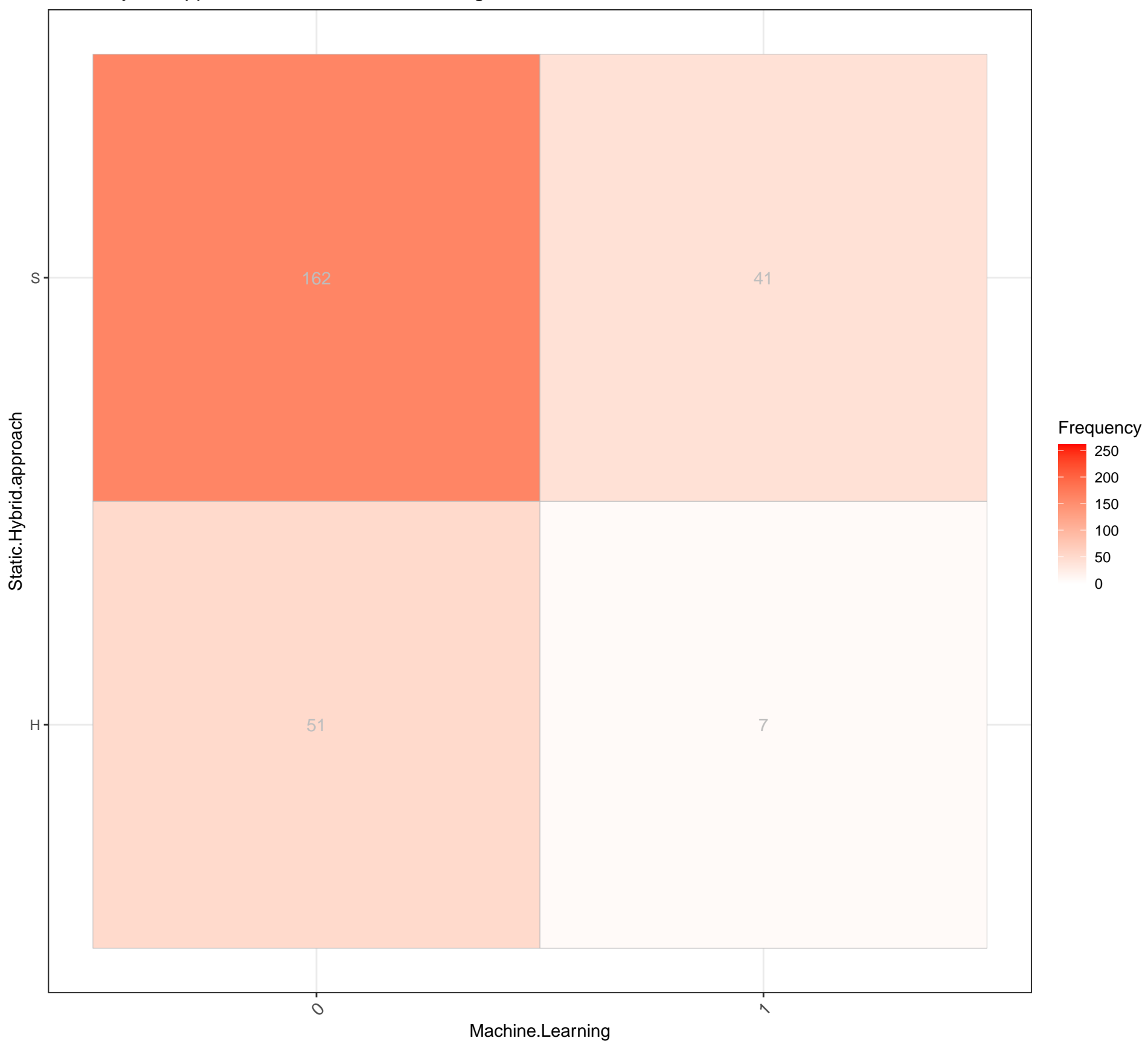
Implementation_____Toy.Real.apps

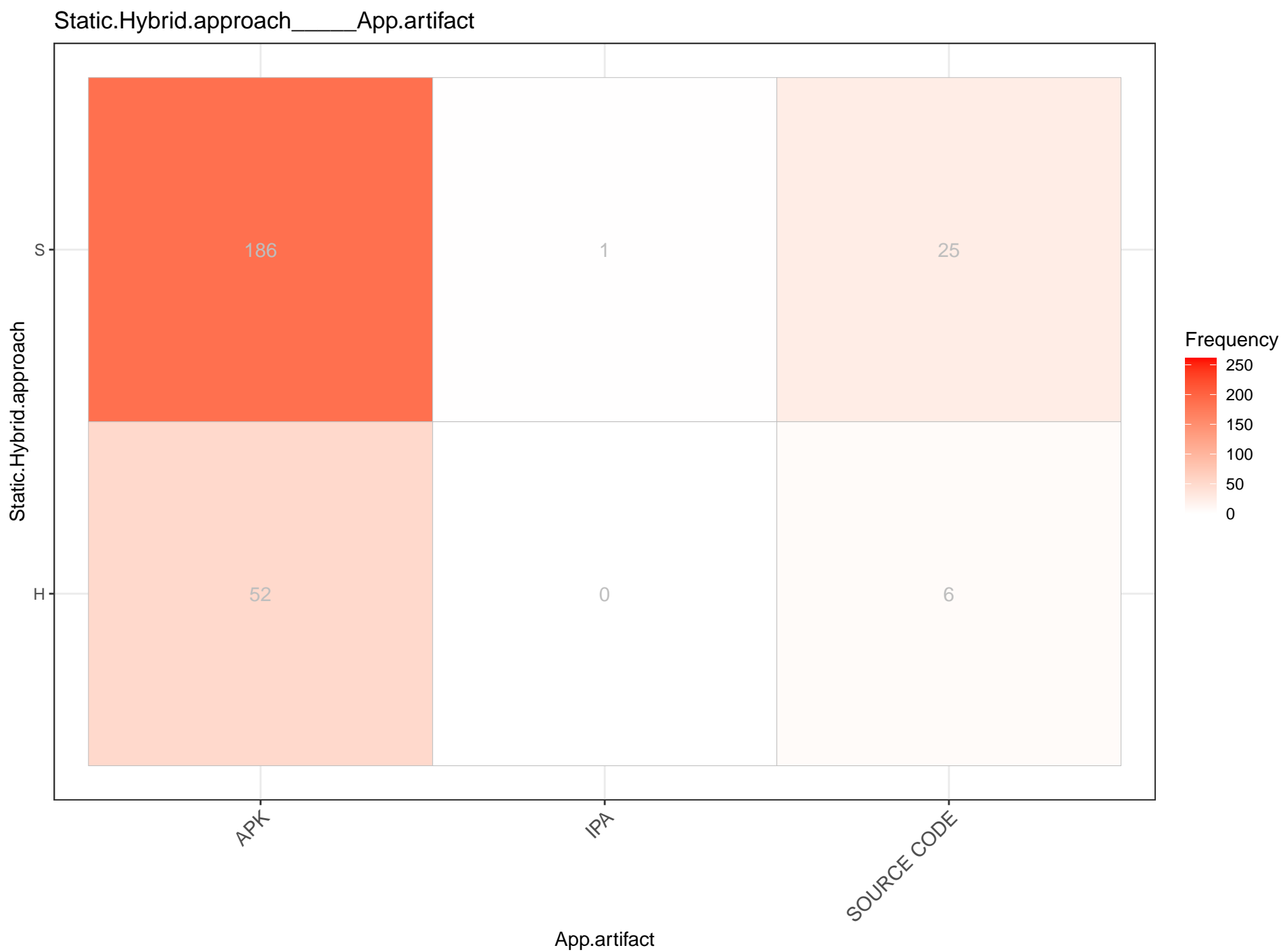


Implementation_Industry.involvement



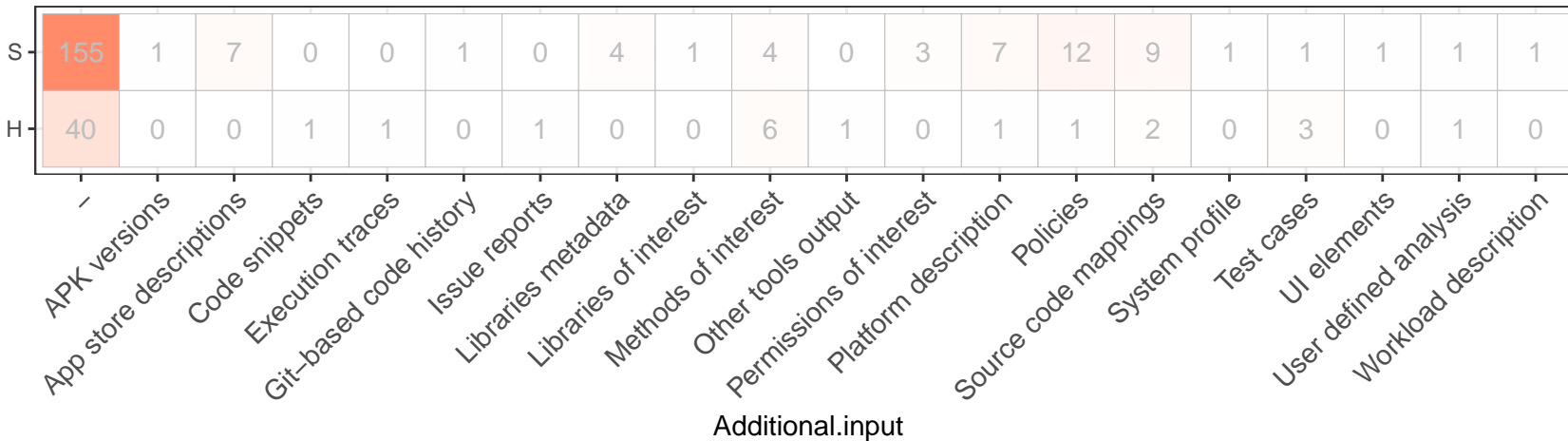
Static.Hybrid.approach_____Machine.Learning



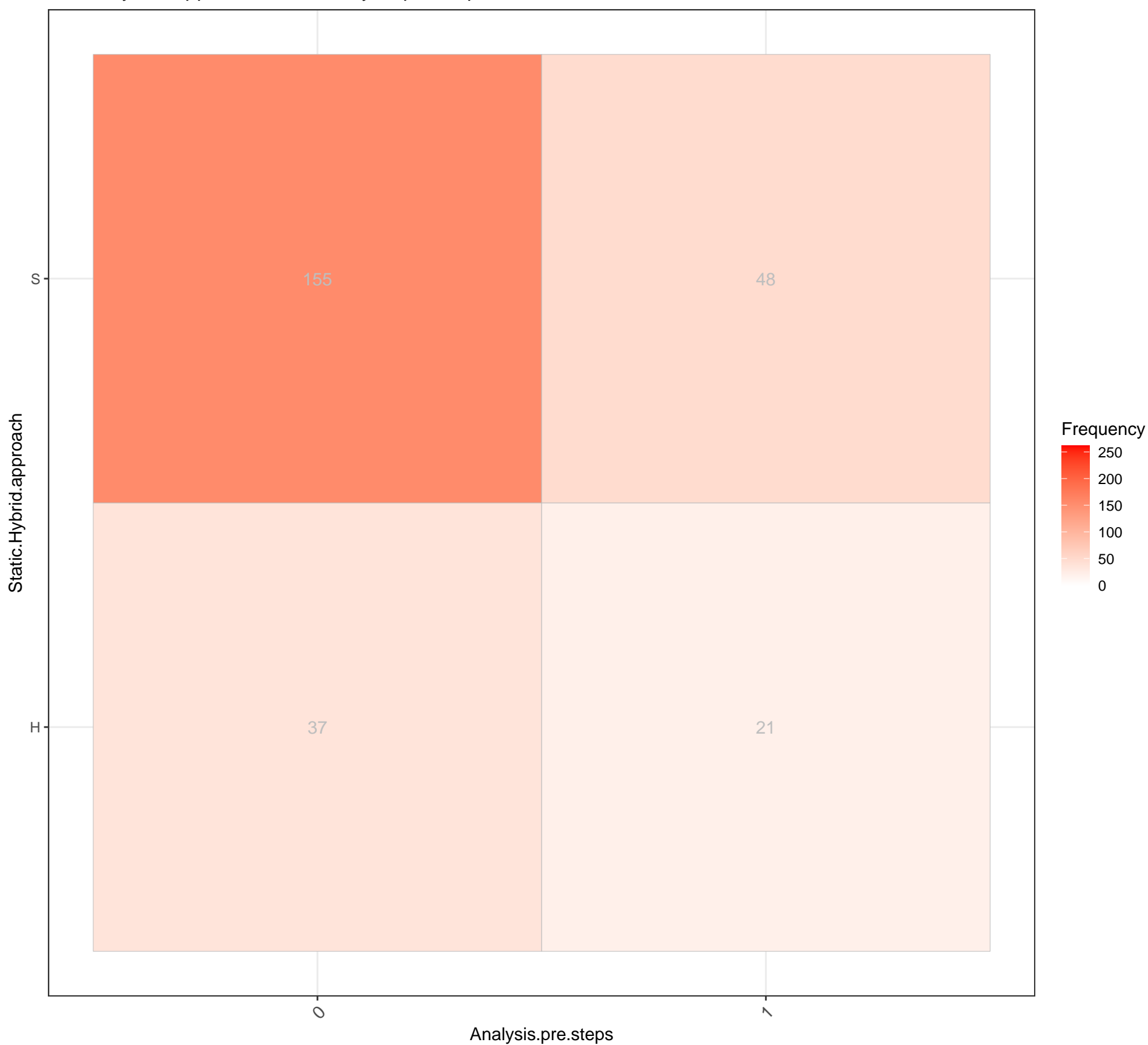


Static.Hybrid.approach

Static.Hybrid.approach_____Additional.input



Static.Hybrid.approach_____Analysis.pre.steps

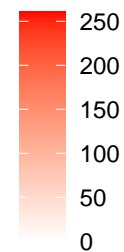


Static.Hybrid.approach

Static.Hybrid.approach_____Analysis.type

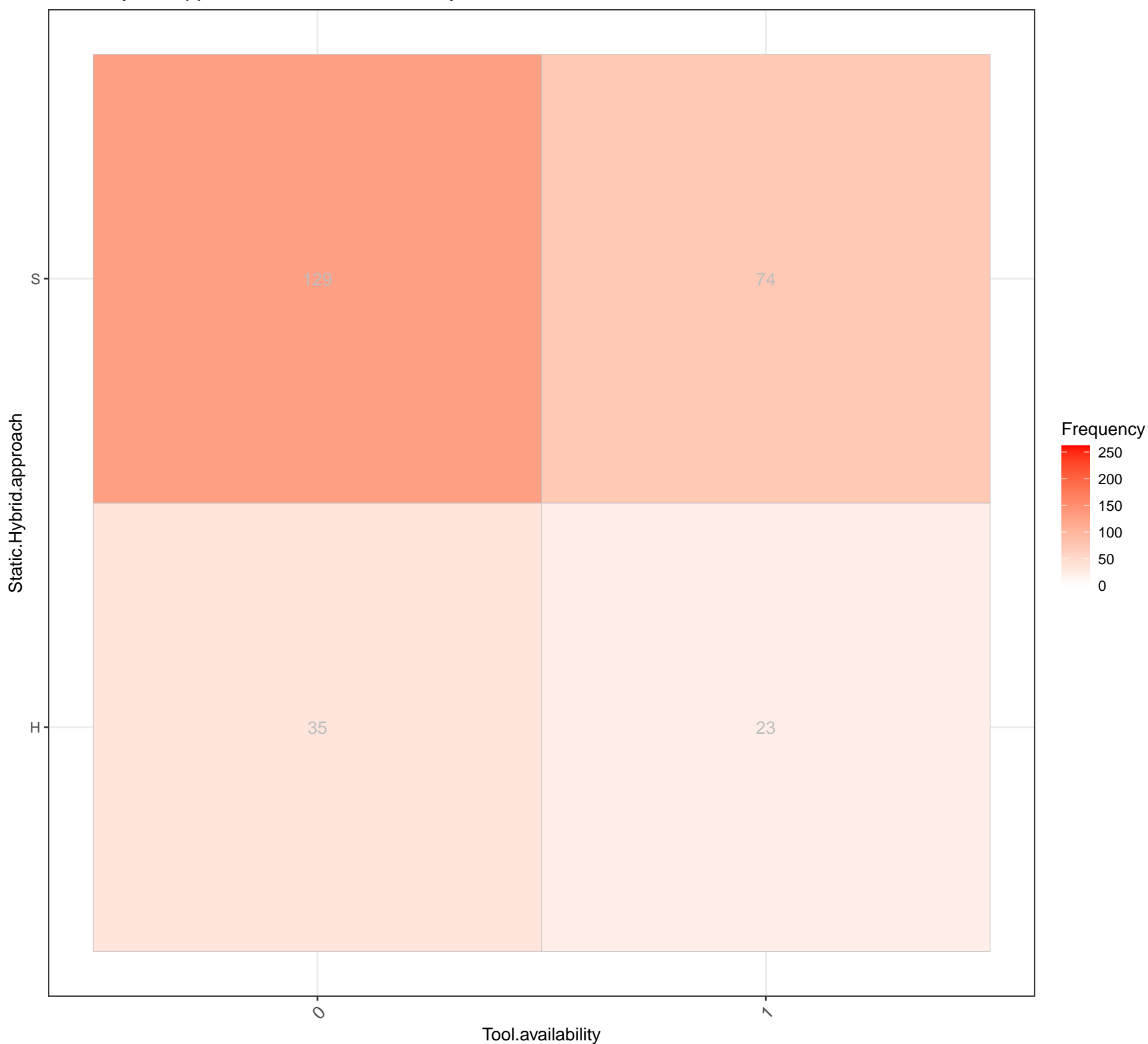
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H	1	4	4	1	2	5	0	41	0	5	2	0	0	0	3	0	0	4	1	1	7	7	0	0	0
	INTERPRETATION	CLASS	CODE INSTRUMENTATION	CONSTANT PROPAGATION	DATA MINING	DEPENDENCY ANALYSIS	FLOW ANALYSIS	FORMAL ANALYSIS	MODEL BASED	MODEL CHECKING	NULLNESS	OPCODE ANALYSIS	POINTS-TO ANALYSIS	RESPONSIVENESS ANALYSIS	SIMILARITY-BASED	SLICING	STATISTICAL ANALYSIS	STRING ANALYSIS	SYMBOLIC EXECUTION	TAINT ANALYSIS	TERMINATION ANALYSIS	TYPE INFERENCE	TYPESTATE ANALYSIS		

Frequency

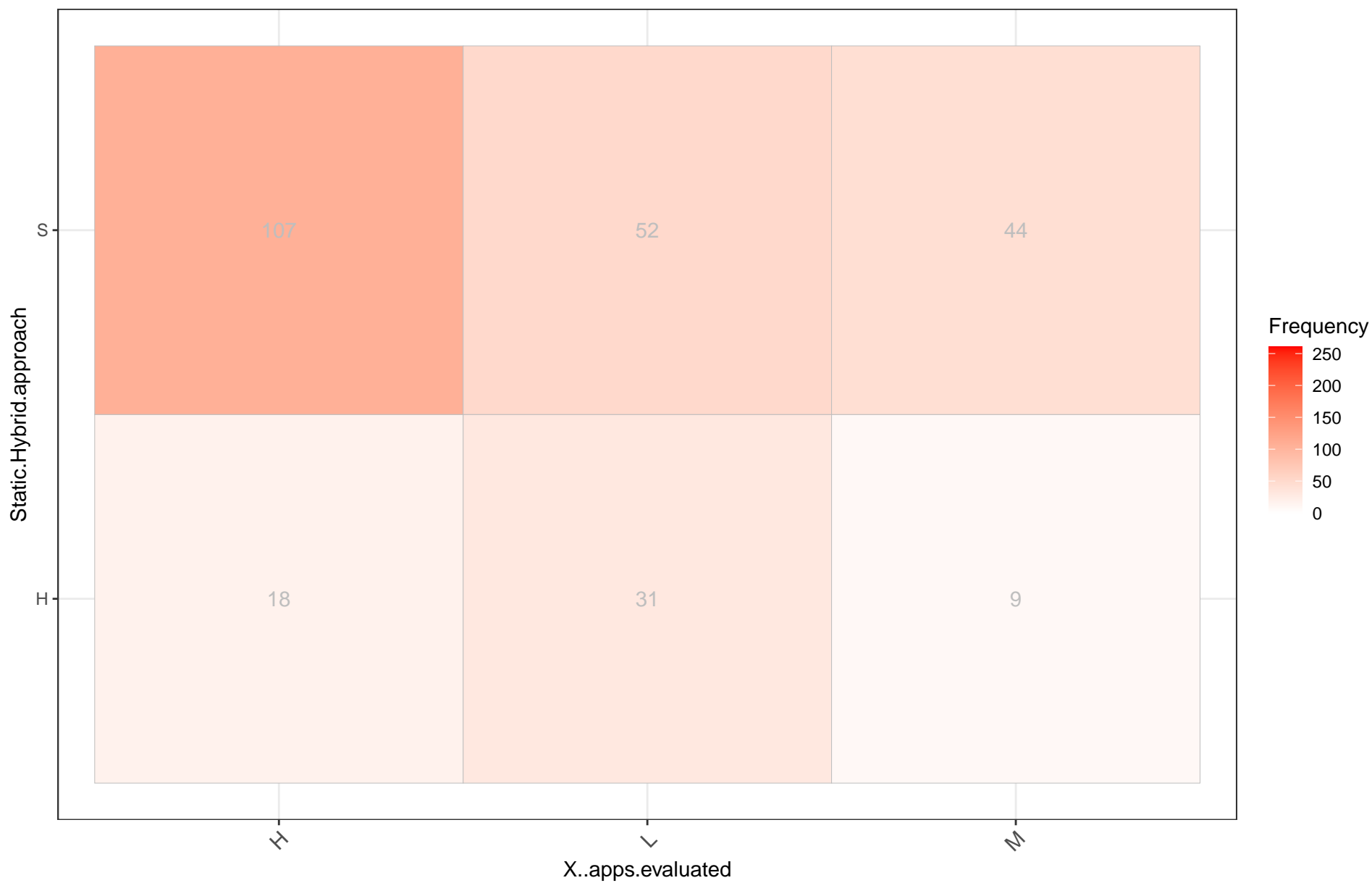


Analysis.type

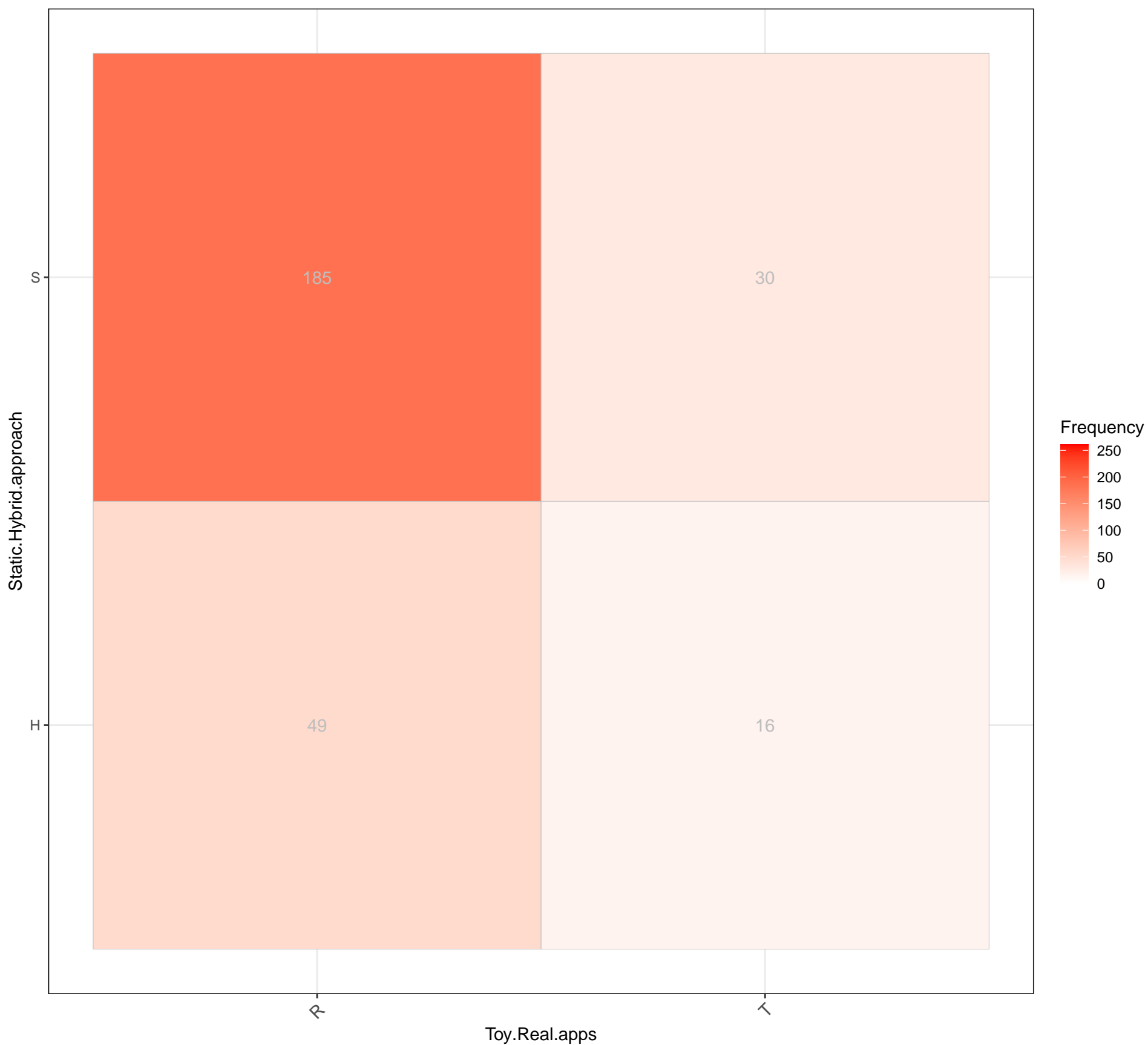
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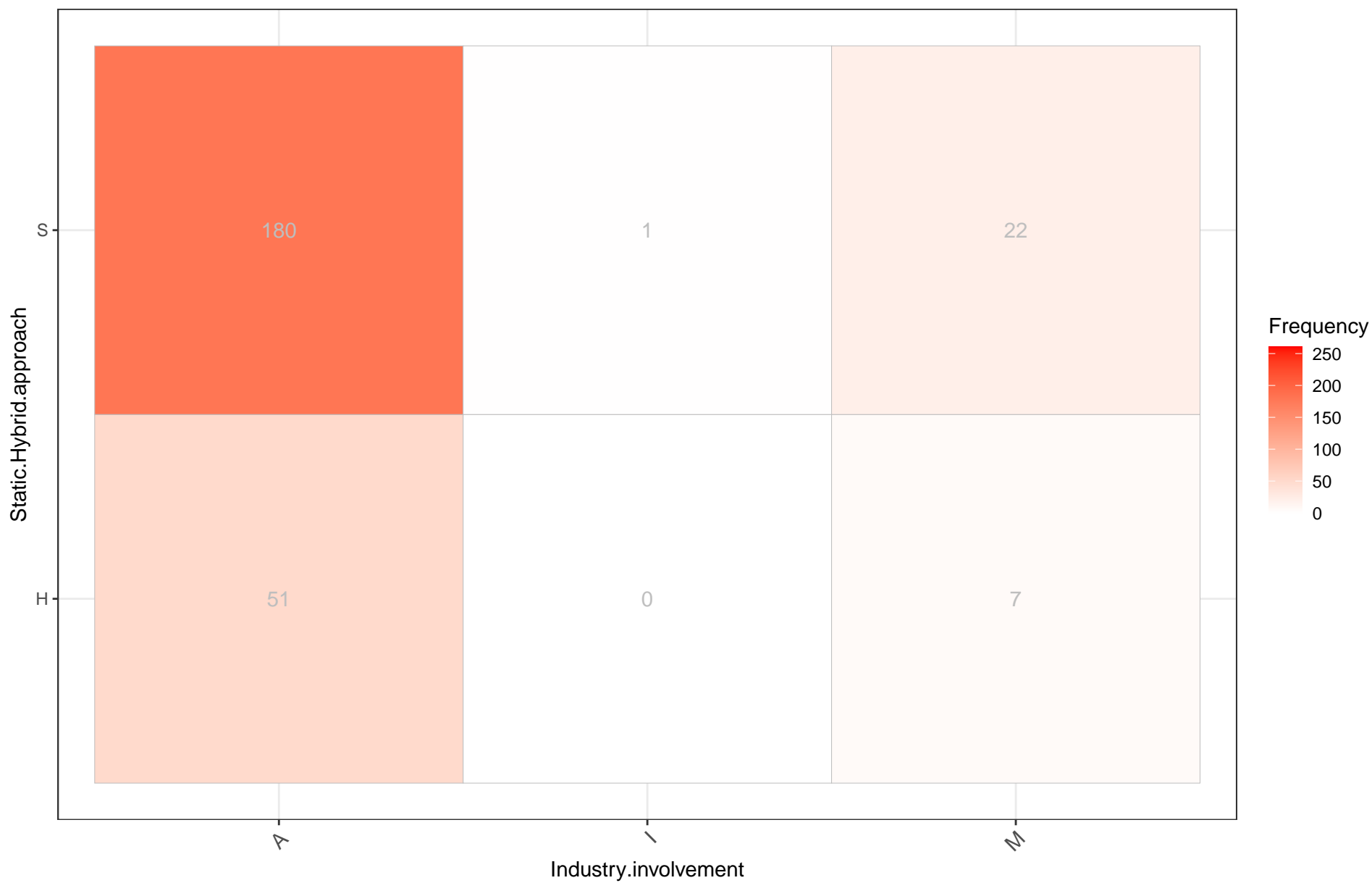
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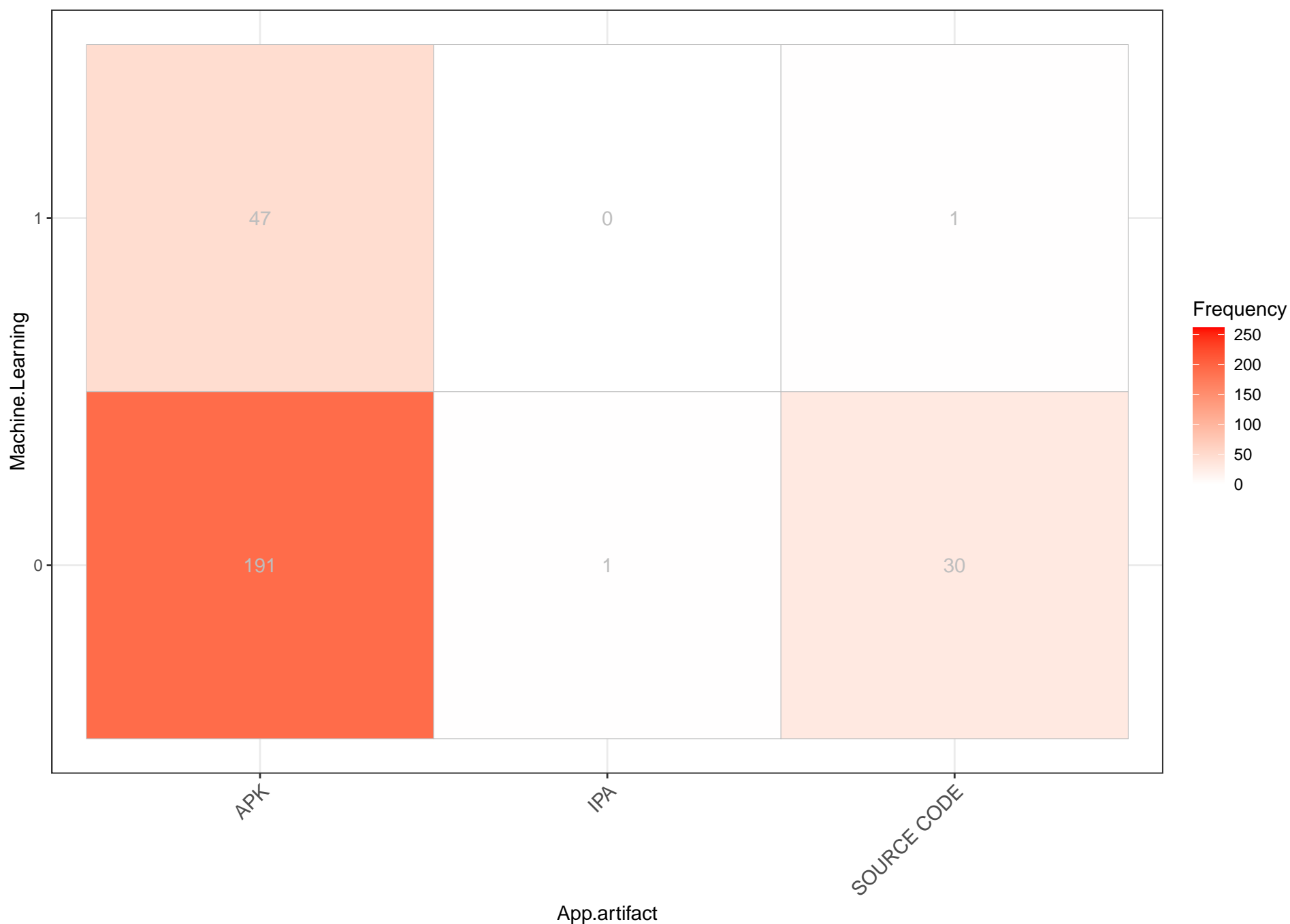
Static.Hybrid.approach_____Toy.Real.apps

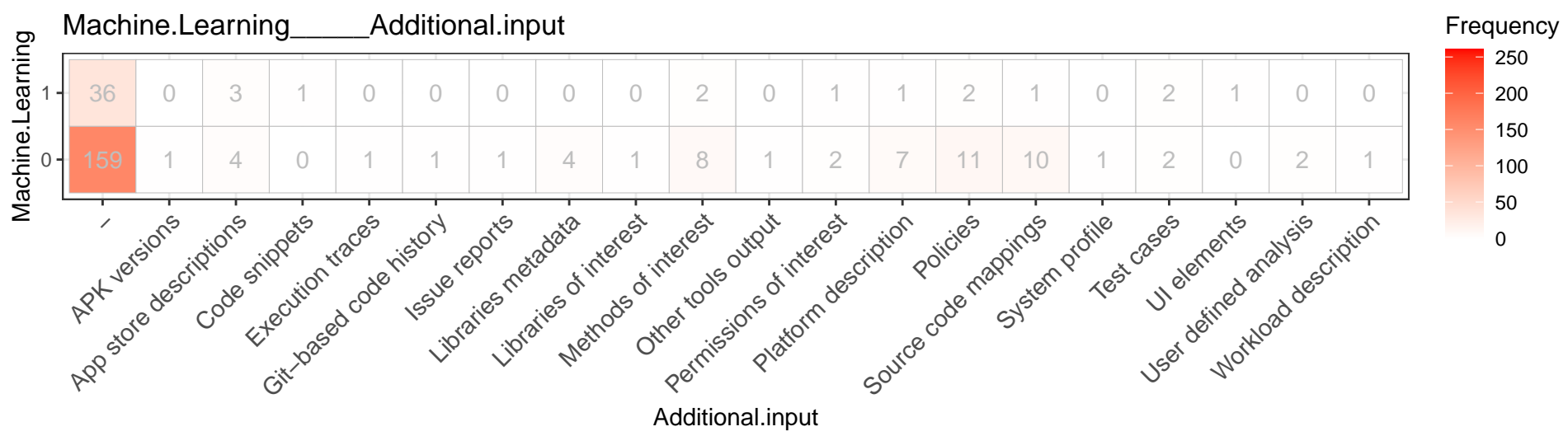


Static.Hybrid.approach_____Industry.involvement

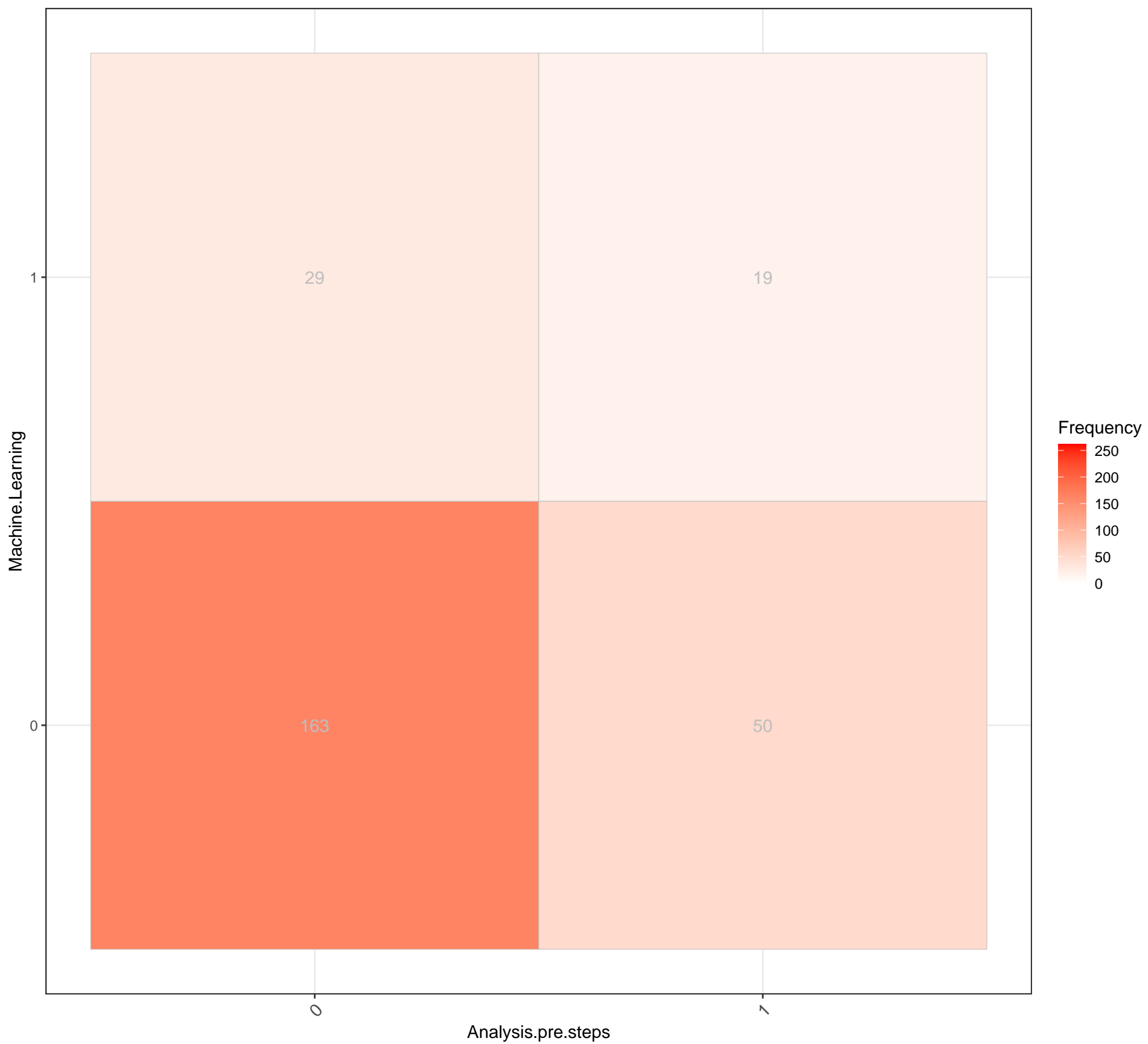


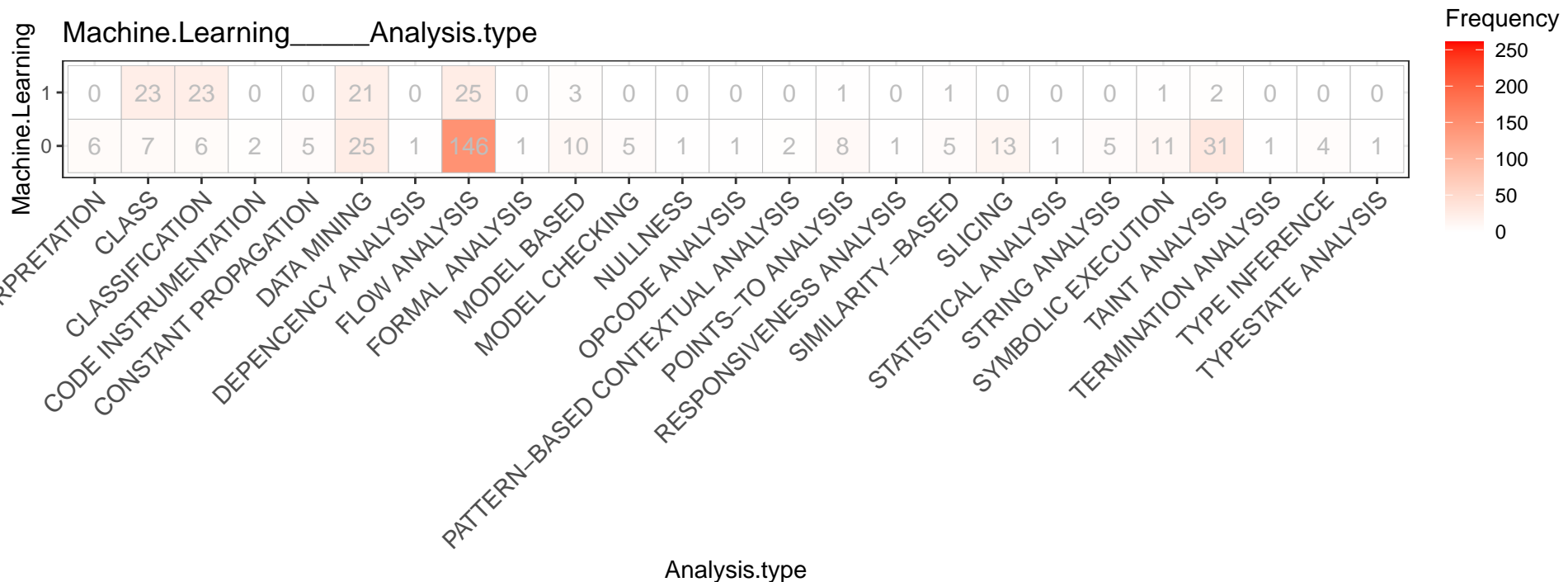
Machine.Learning_____App.artifact



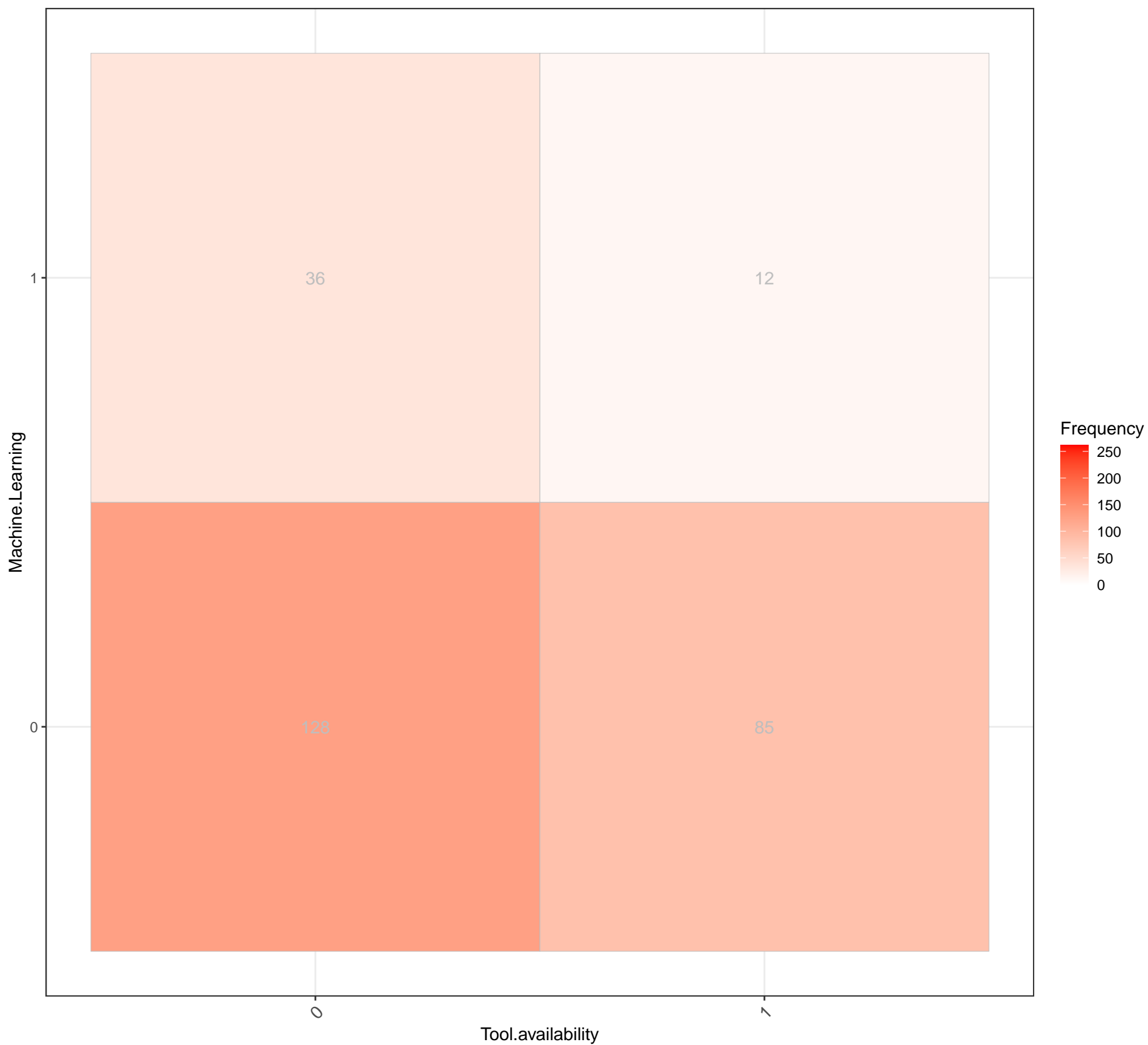


Machine.Learning_____Analysis.pre.steps

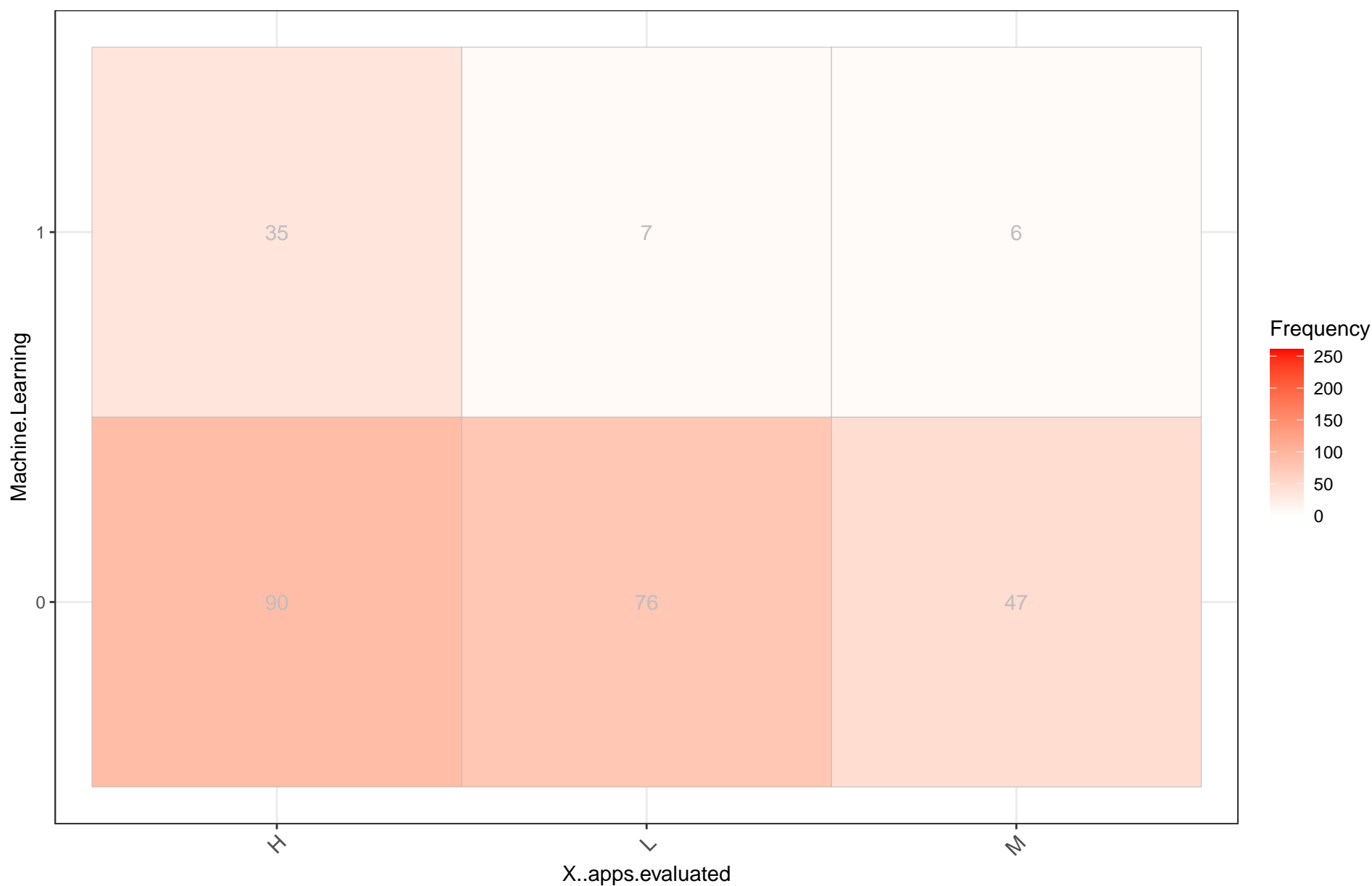




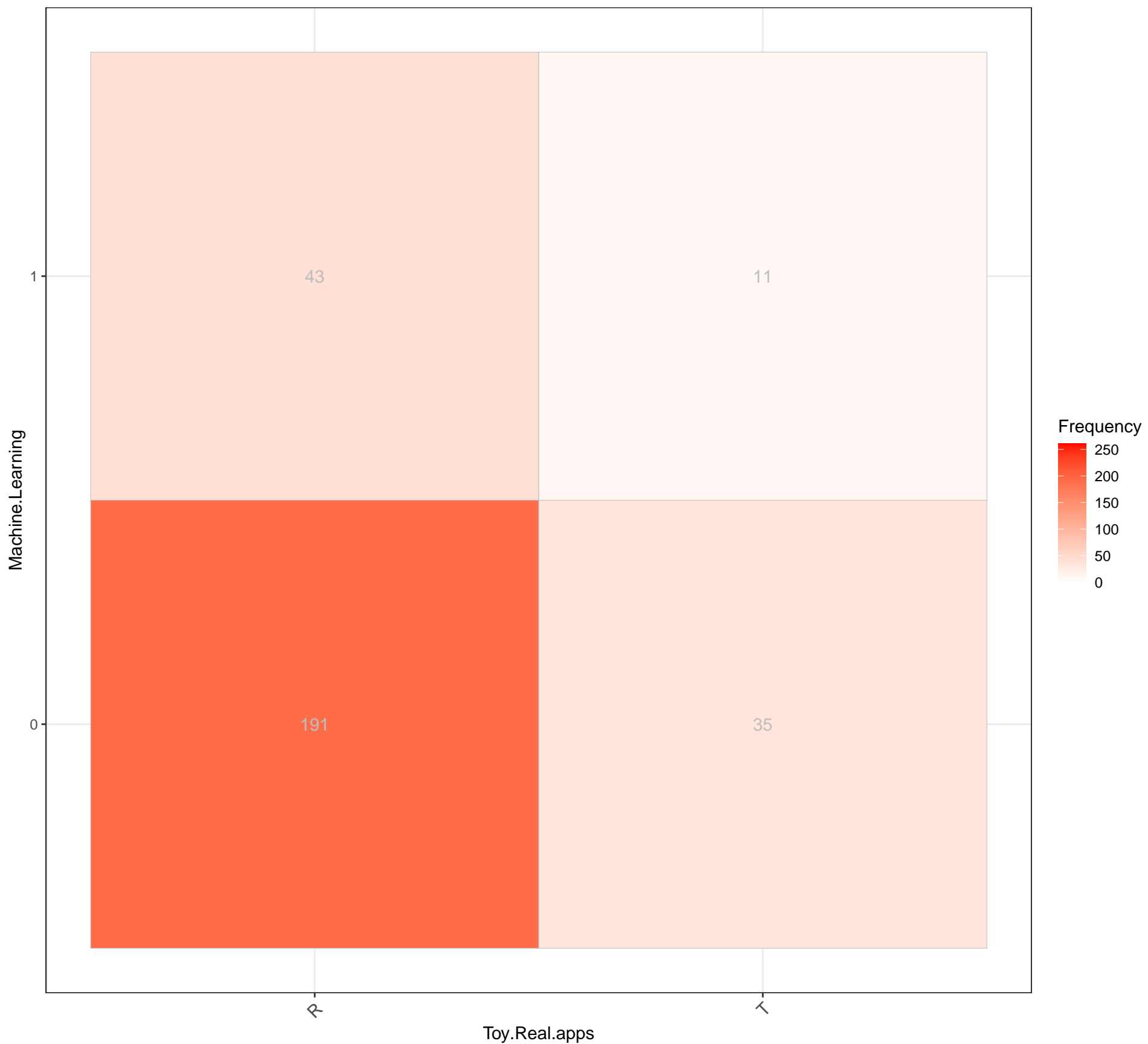
Machine.Learning_____Tool.availability



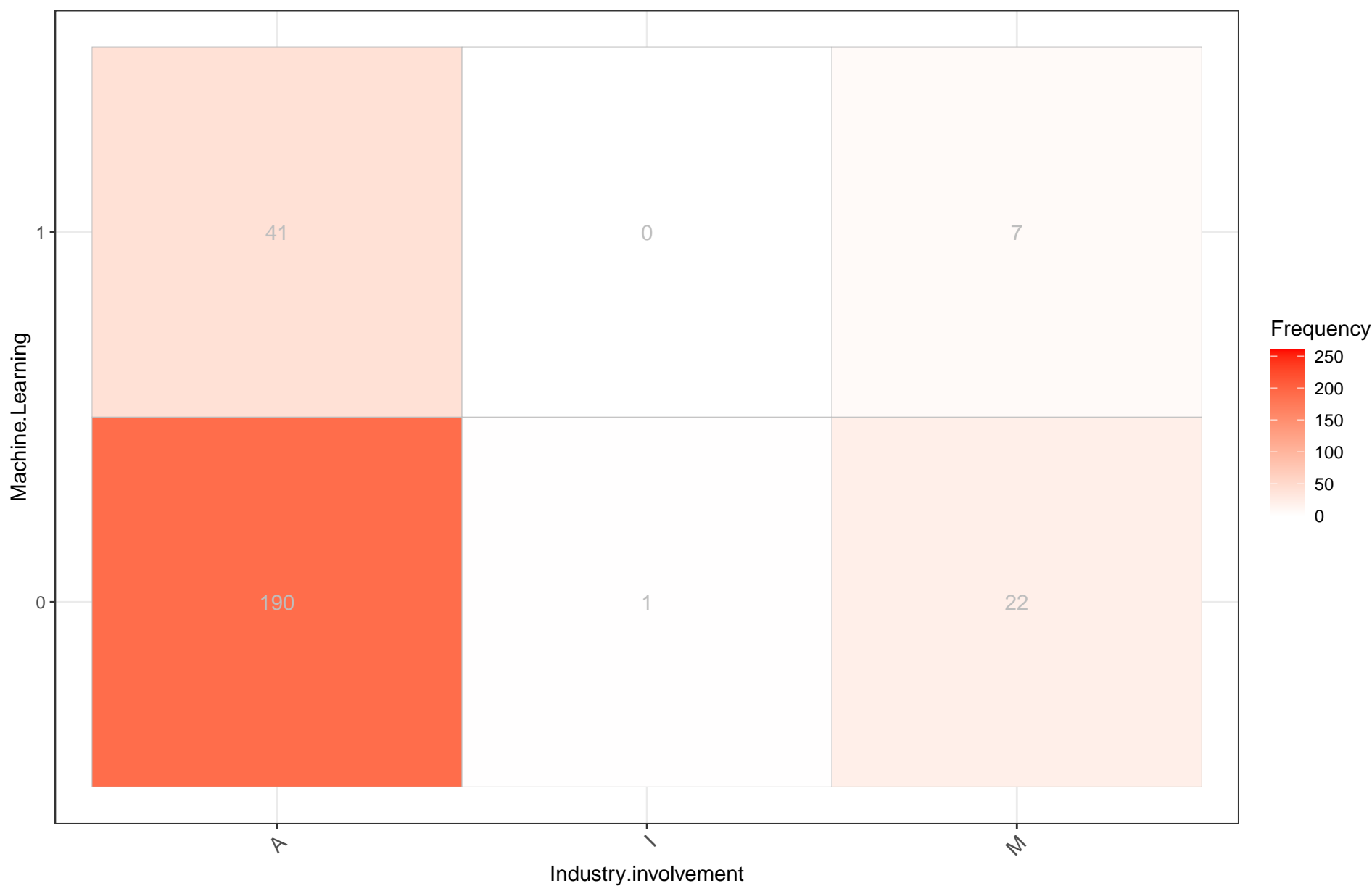
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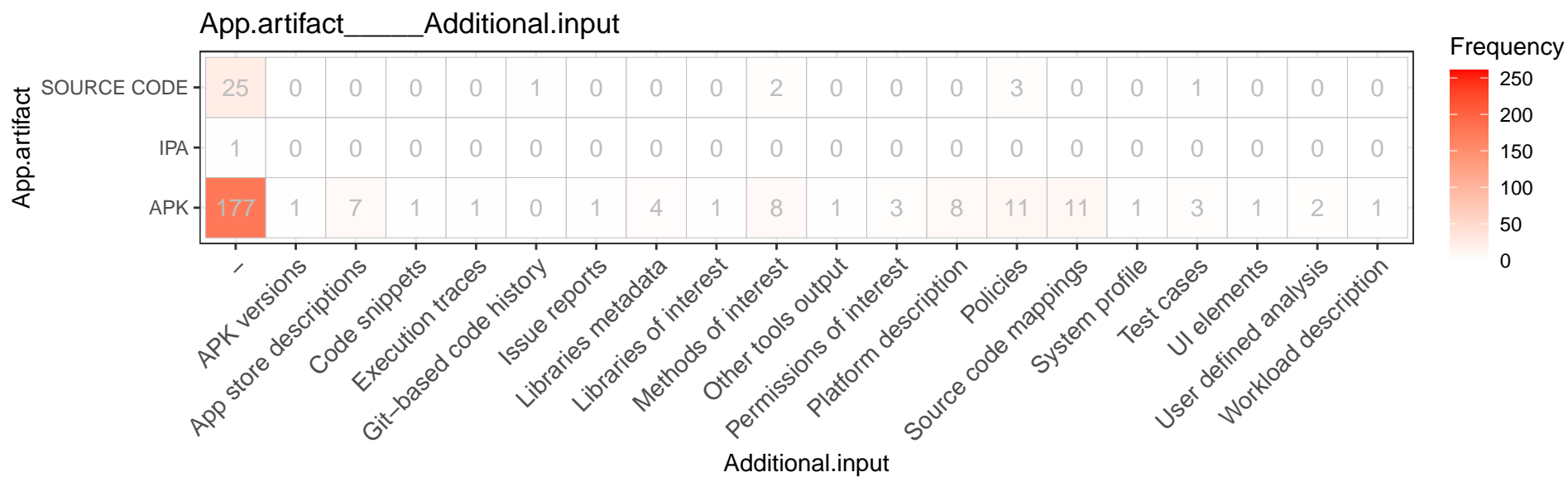


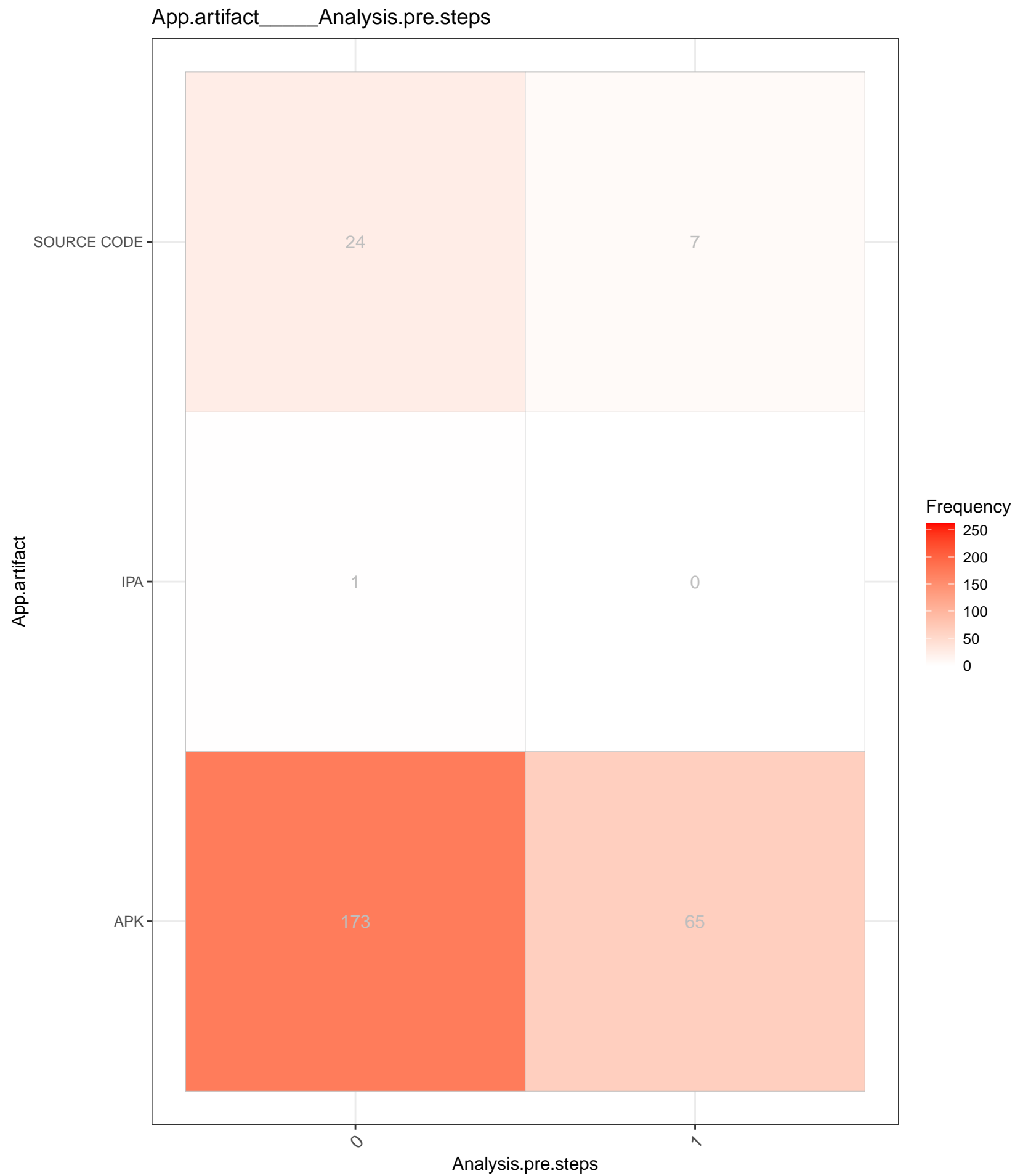
Machine.Learning_____Toy.Real.apps

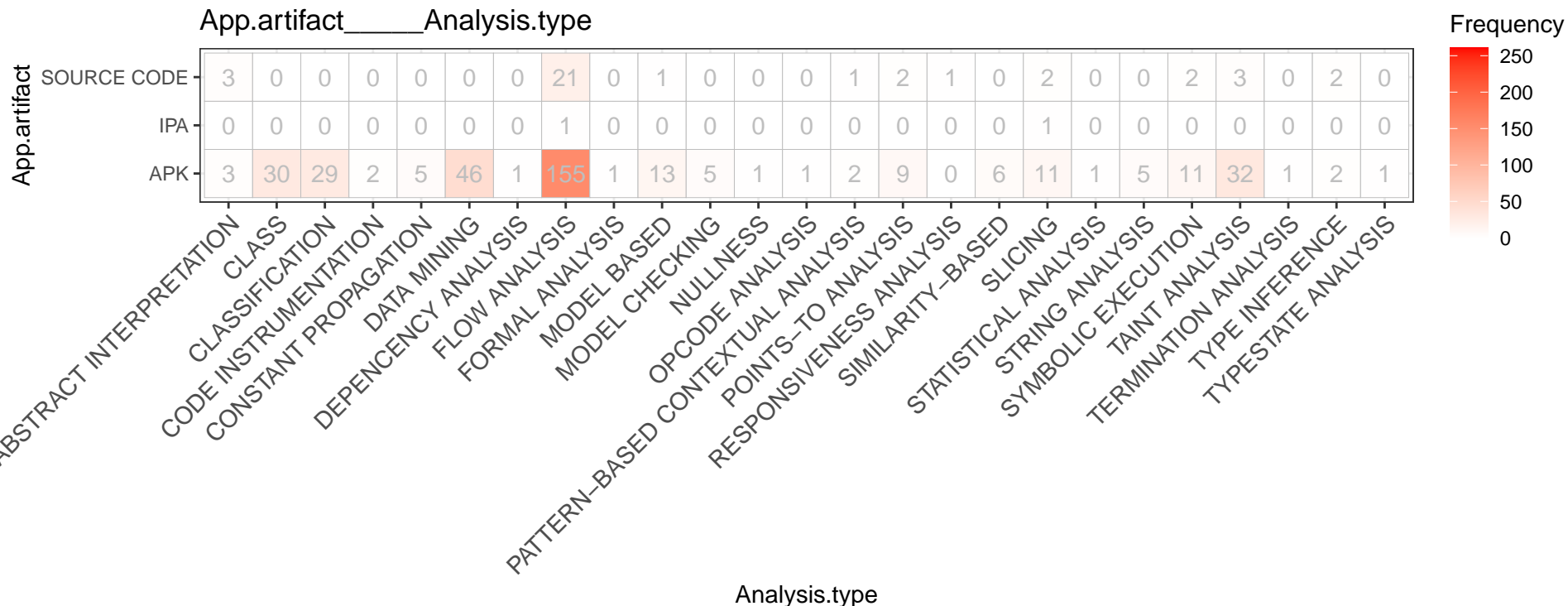


Machine.Learning_____Industry.involvement

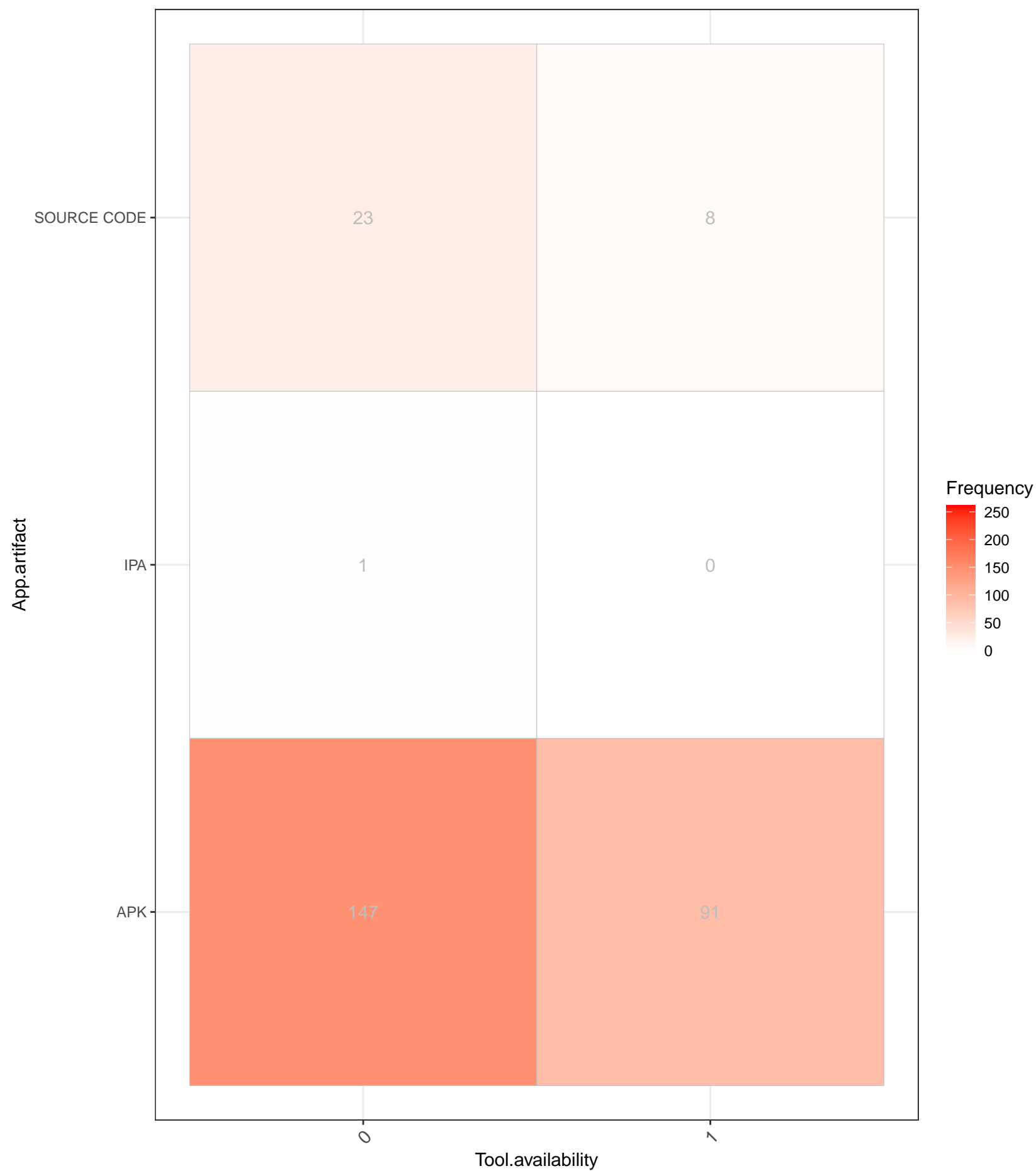


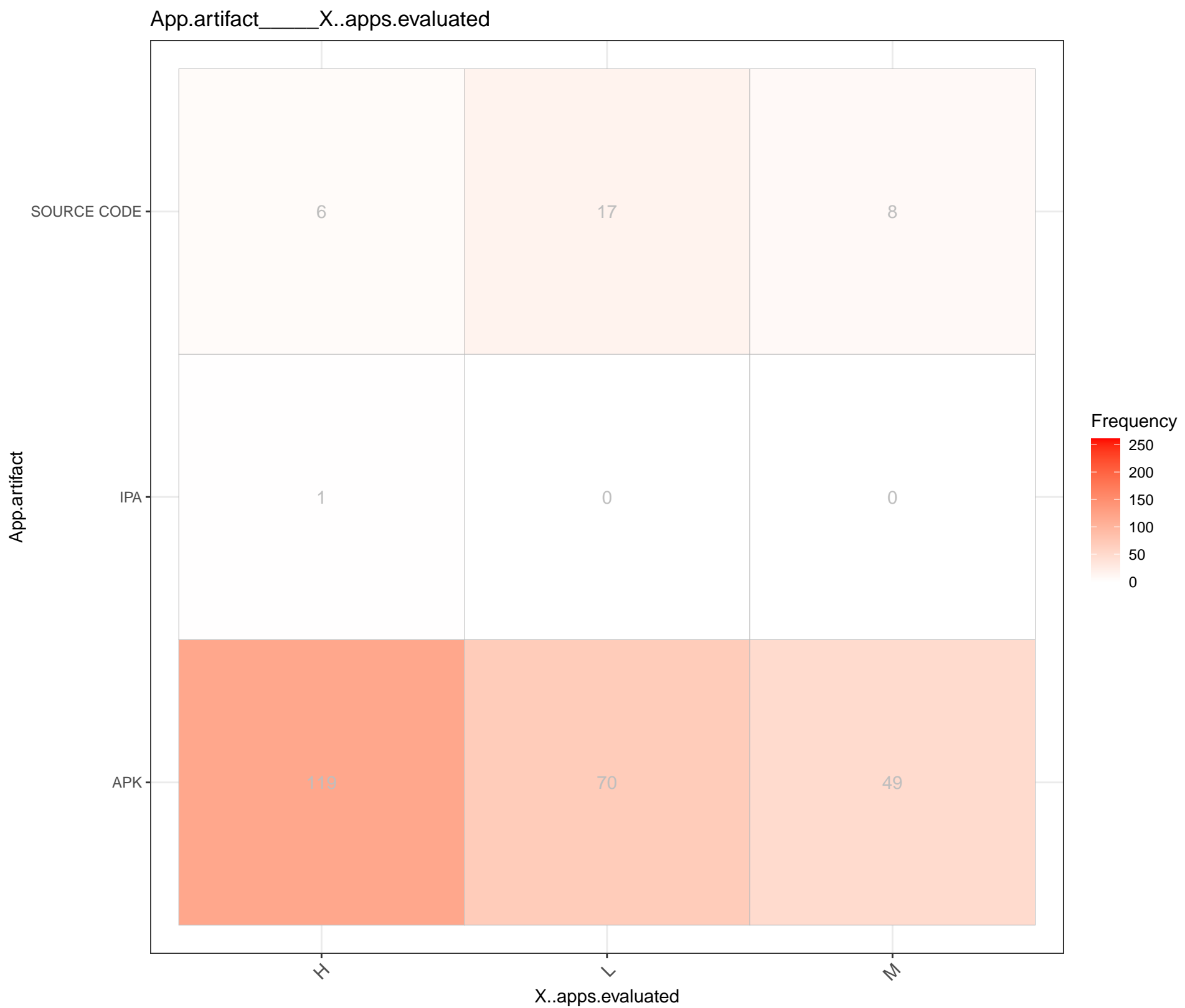




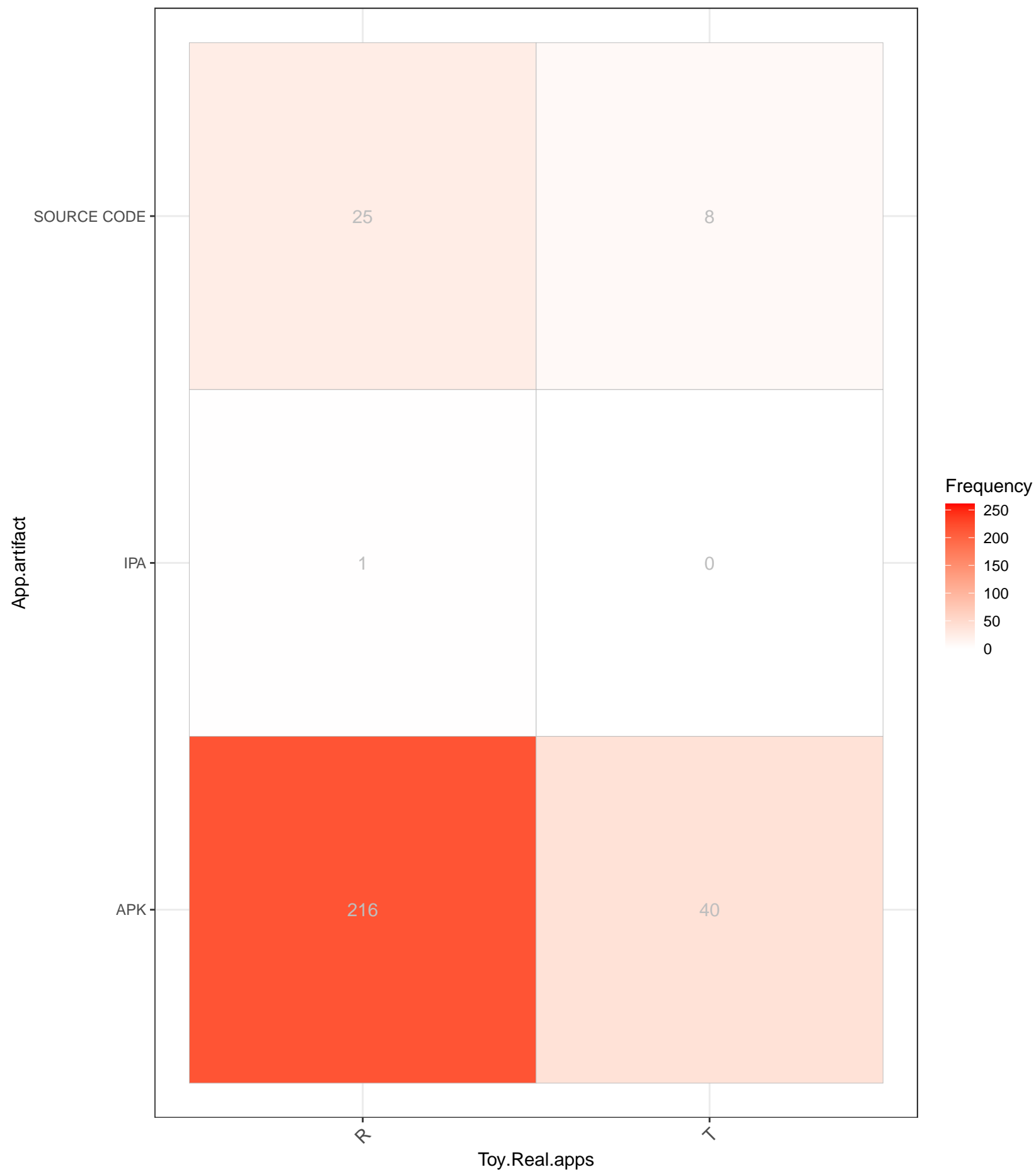


App.artifact_____Tool.availability





App.artifact Toy.Real.apps



App.artifact_____Industry.involvement

SOURCE CODE

26

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IPA

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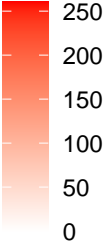
APK

211

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26

Frequency

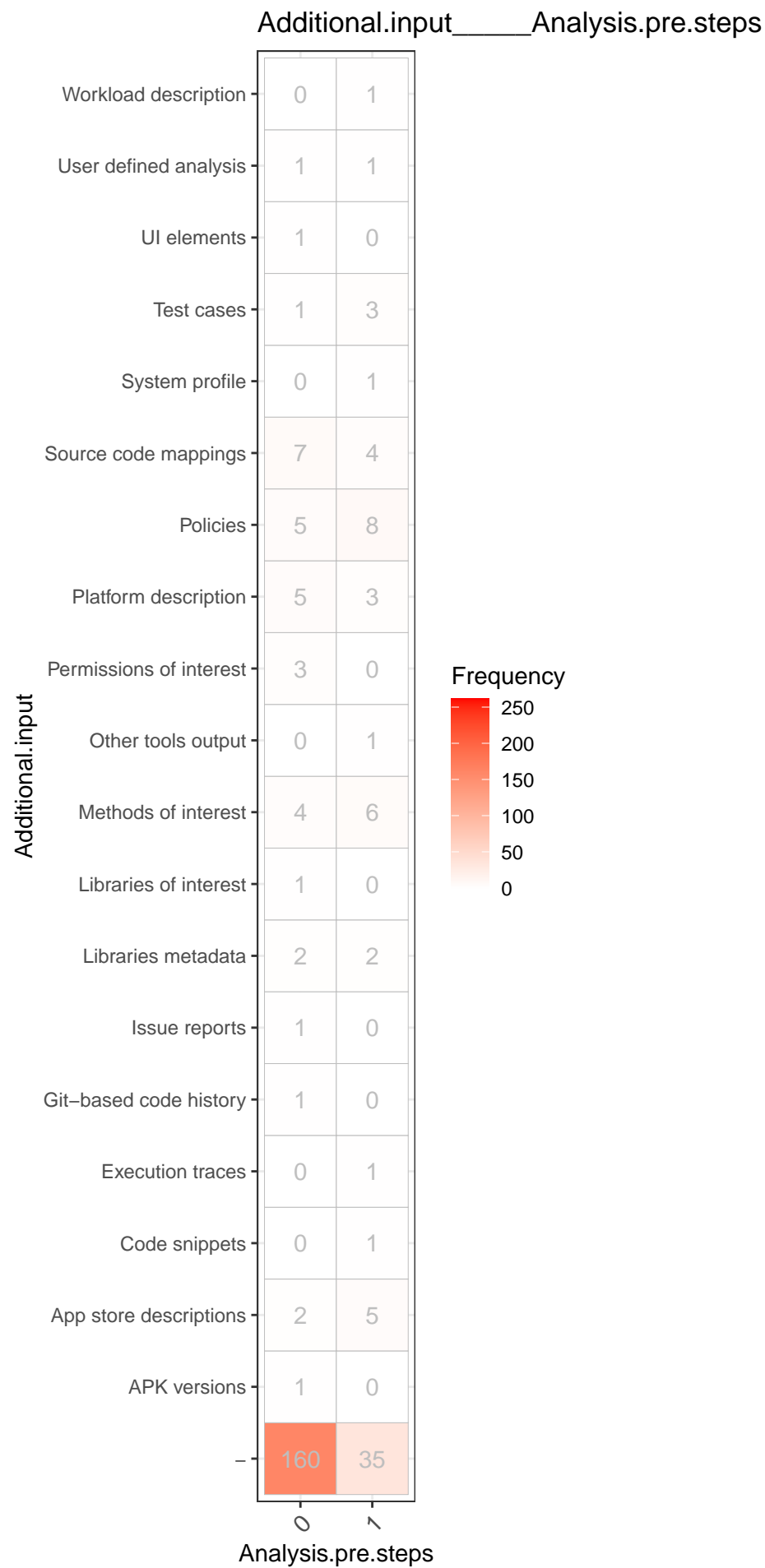


Industry.involvement

A

I

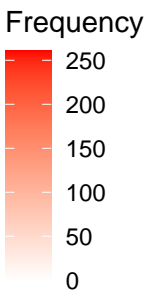
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Additional.input_____Analysis.type

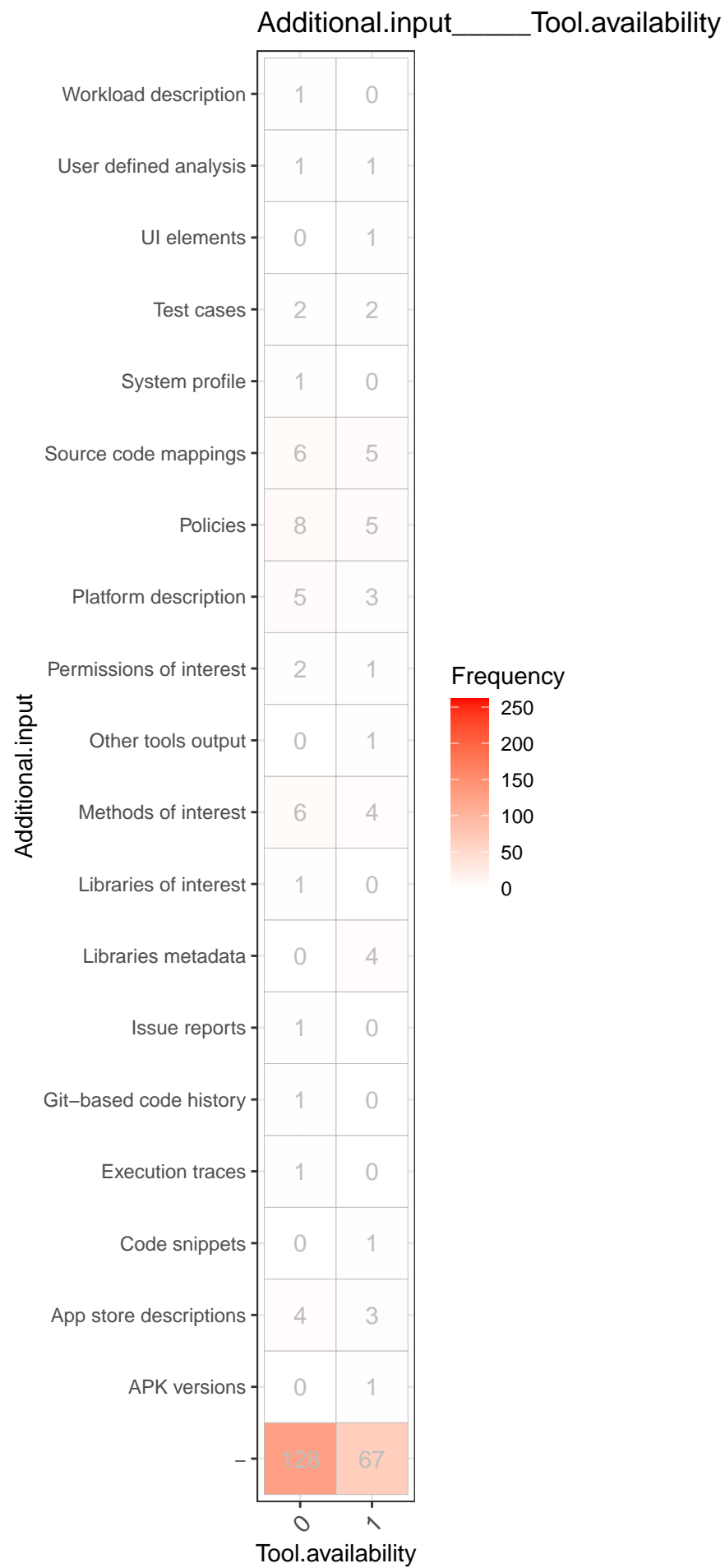
Additional.input

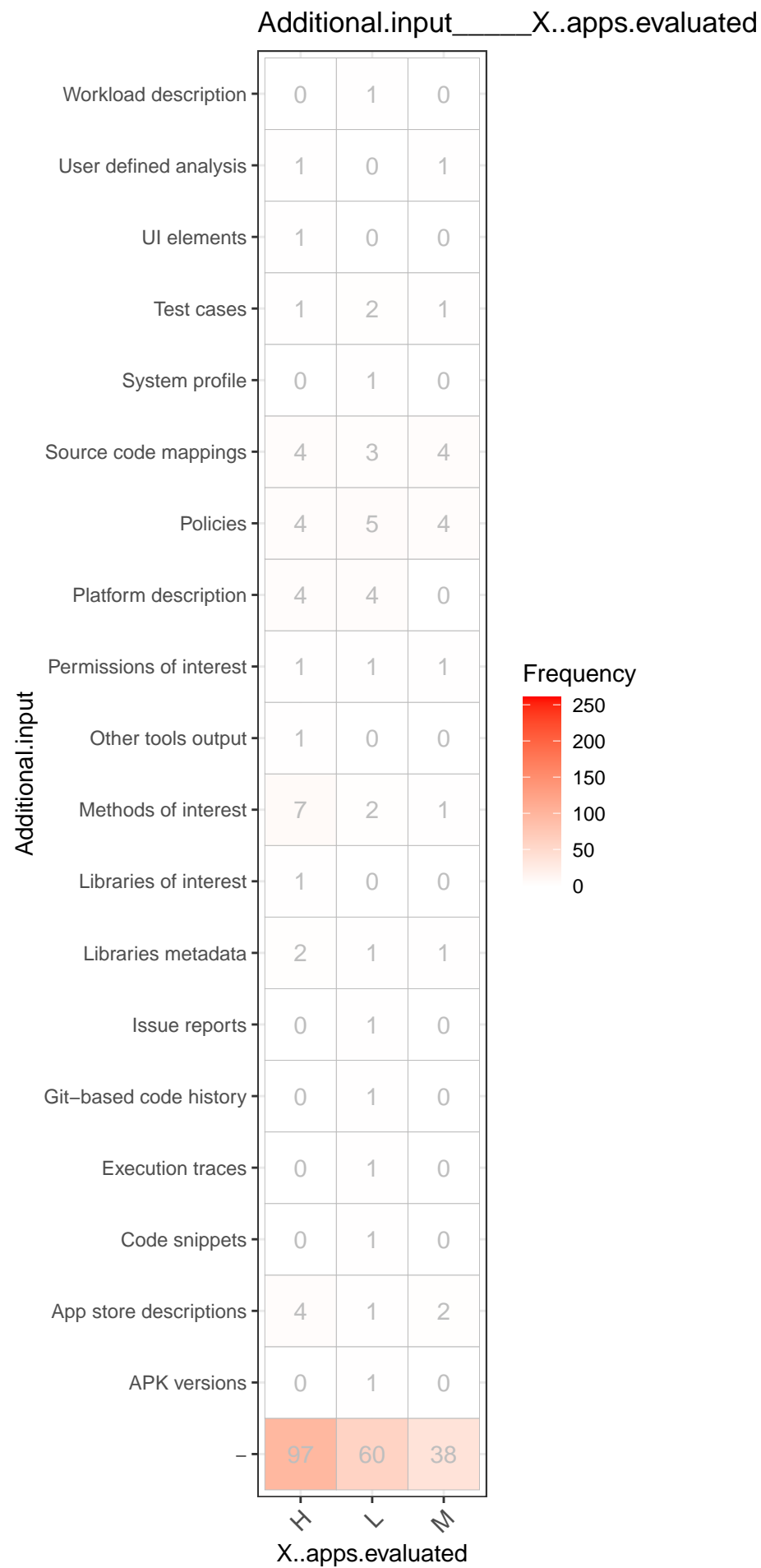
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UI elements	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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Policies	0	1	1	0	0	3	0	10	0	0	1	0	0	0	2	0	0	0	0	0	1	0	1	0	
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Other tools output	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Methods of interest	1	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	1	0	0	1	3	0	0	0	
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Issue reports	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Git-based code history	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Execution traces	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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App store descriptions	0	3	3	0	0	4	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
APK versions	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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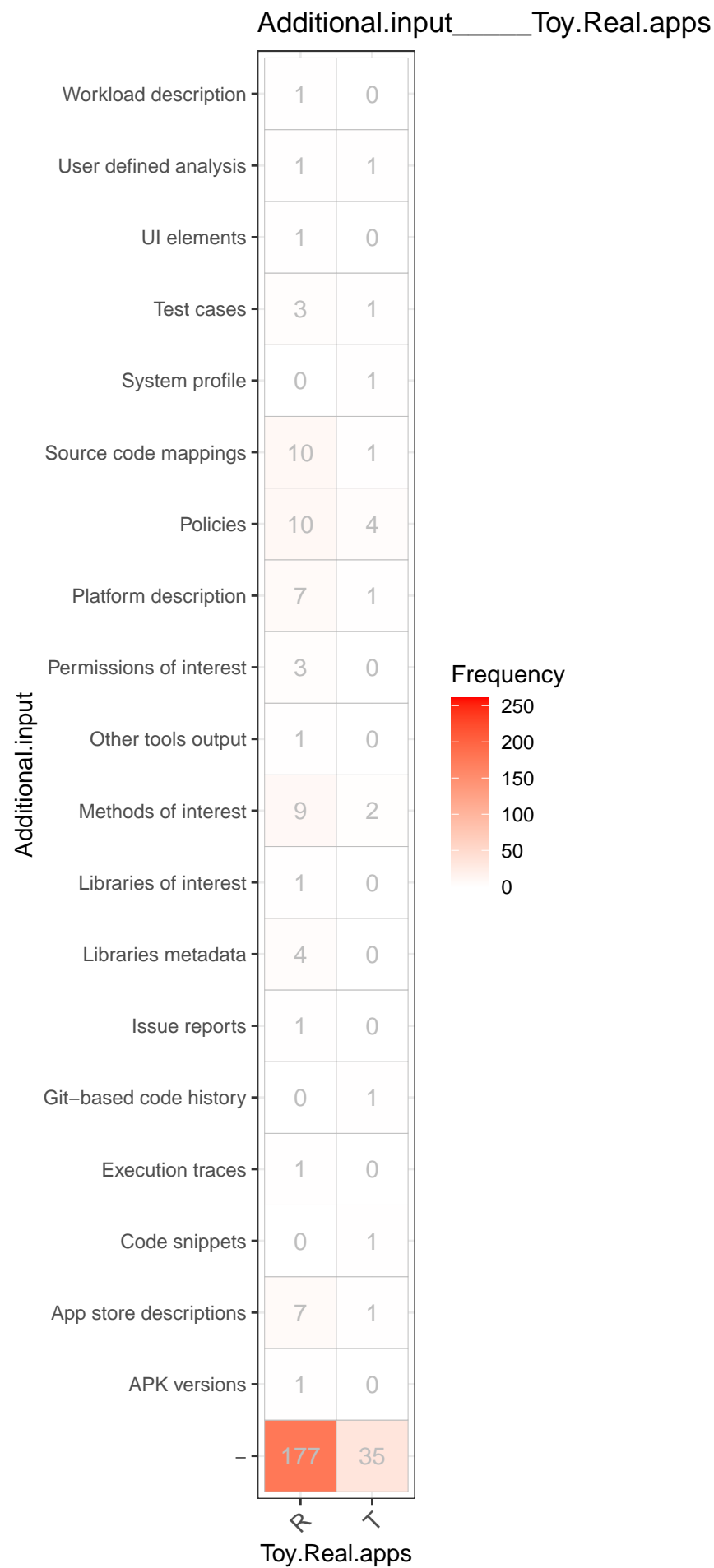


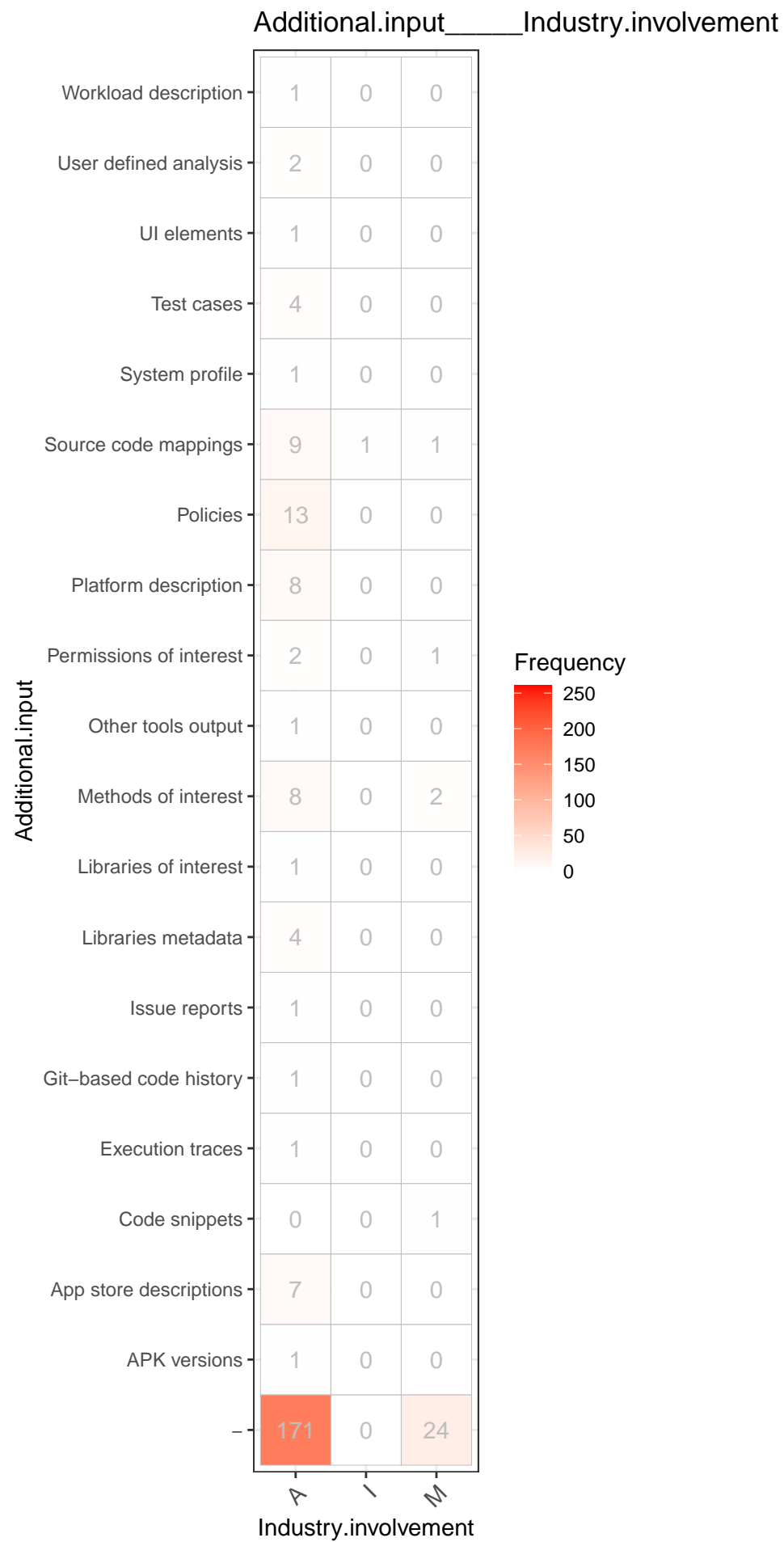
ABSTRACT INTERPRETATION
CLASS
CLASSIFICATION
CODE INSTRUMENTATION
CONSTANT PROPAGATION
DEPENDENCY ANALYSIS
DATA MINING
FLOW ANALYSIS
FORMAL ANALYSIS
MODEL ANALYSIS
MODEL BASED
MODEL CHECKING
NULLNESS
OPCODE ANALYSIS
PATTERN-BASED CONTEXTUAL ANALYSIS
POINTS-TO ANALYSIS
RESPONSIVENESS ANALYSIS
SIMILARITY-BASED
SLICING
STATISTICAL ANALYSIS
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TYPE ANALYSIS
TYPE INFERENCE
TYPESTATE ANALYSIS

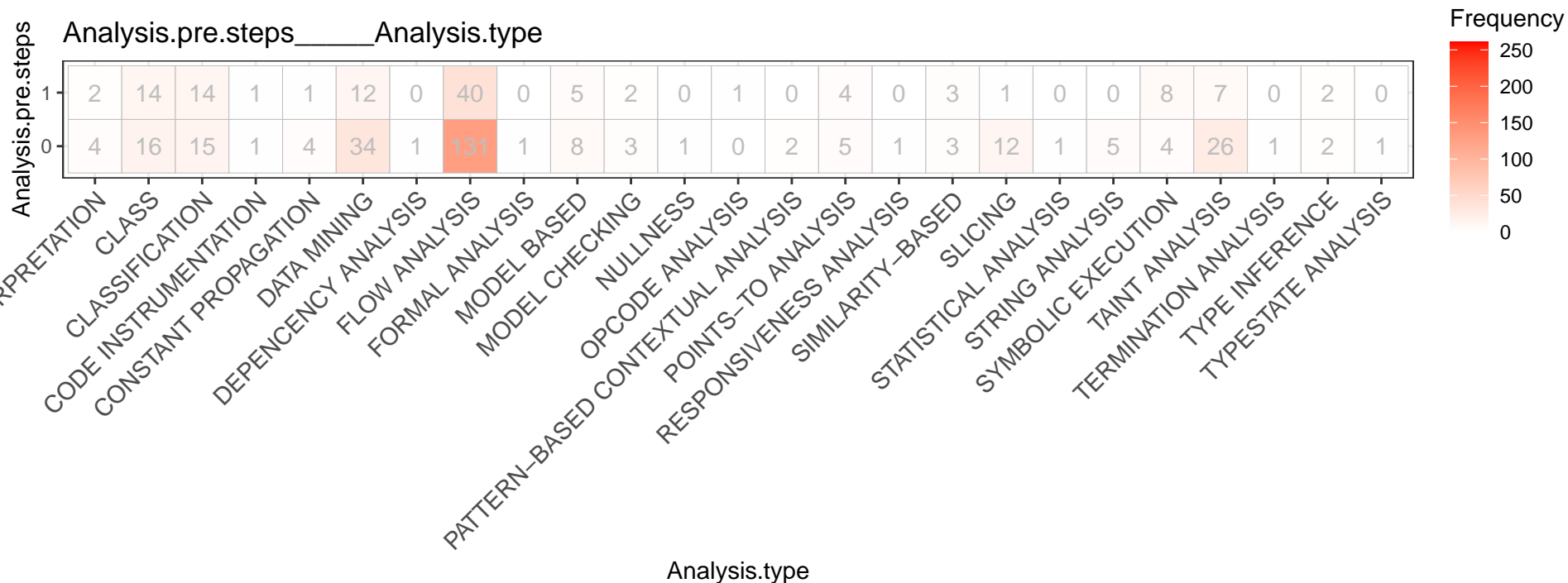
Analysis.type



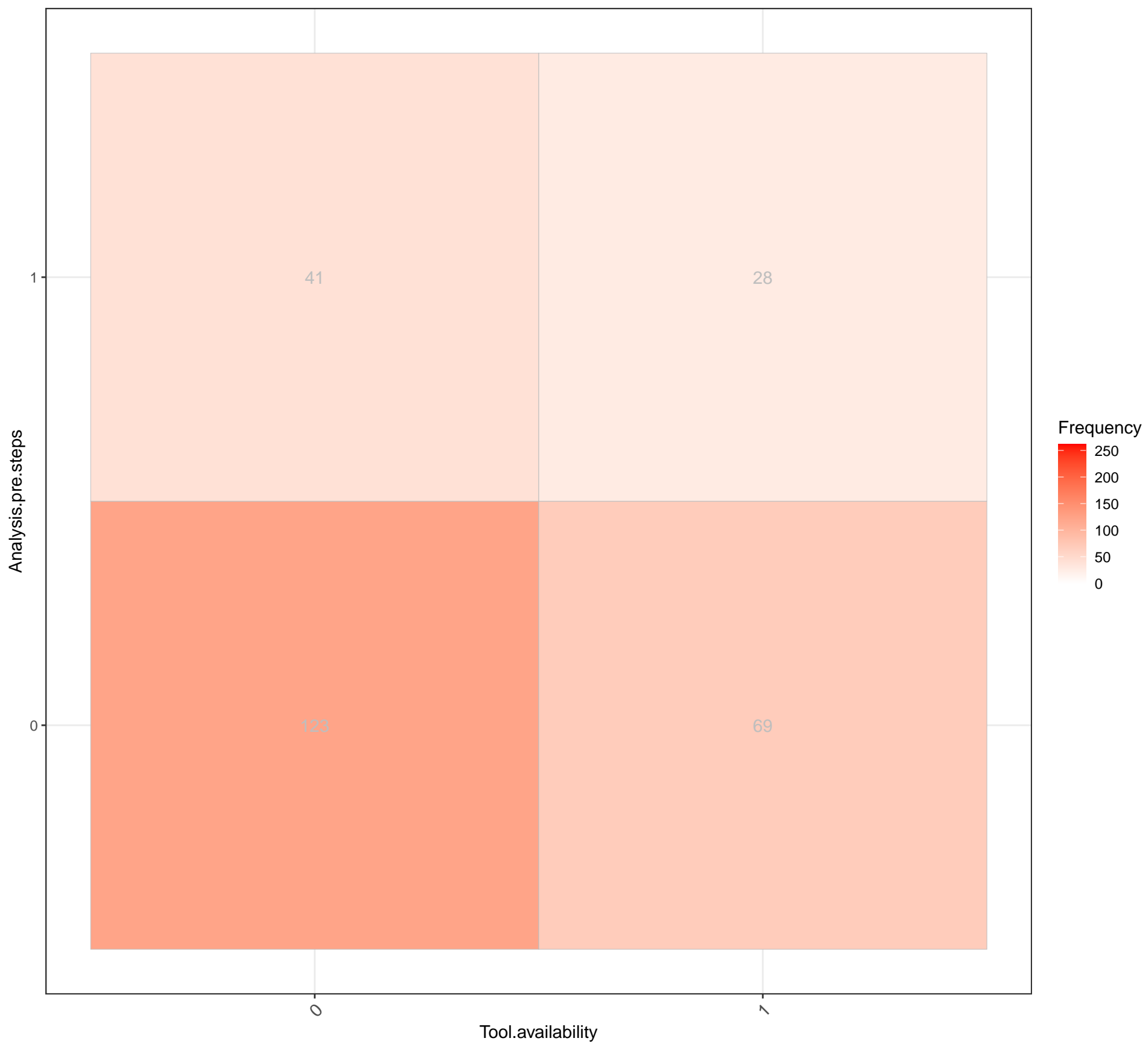




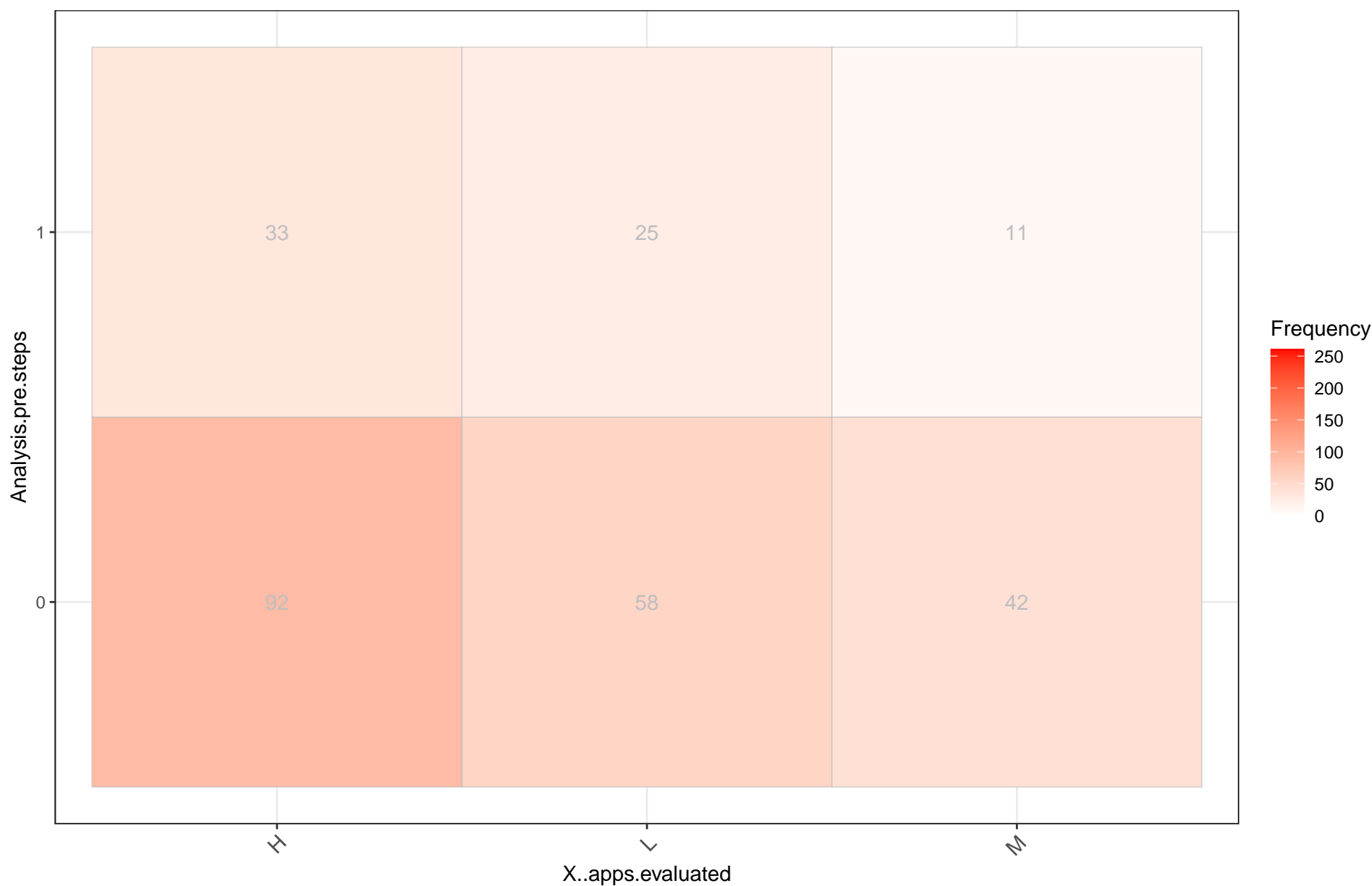




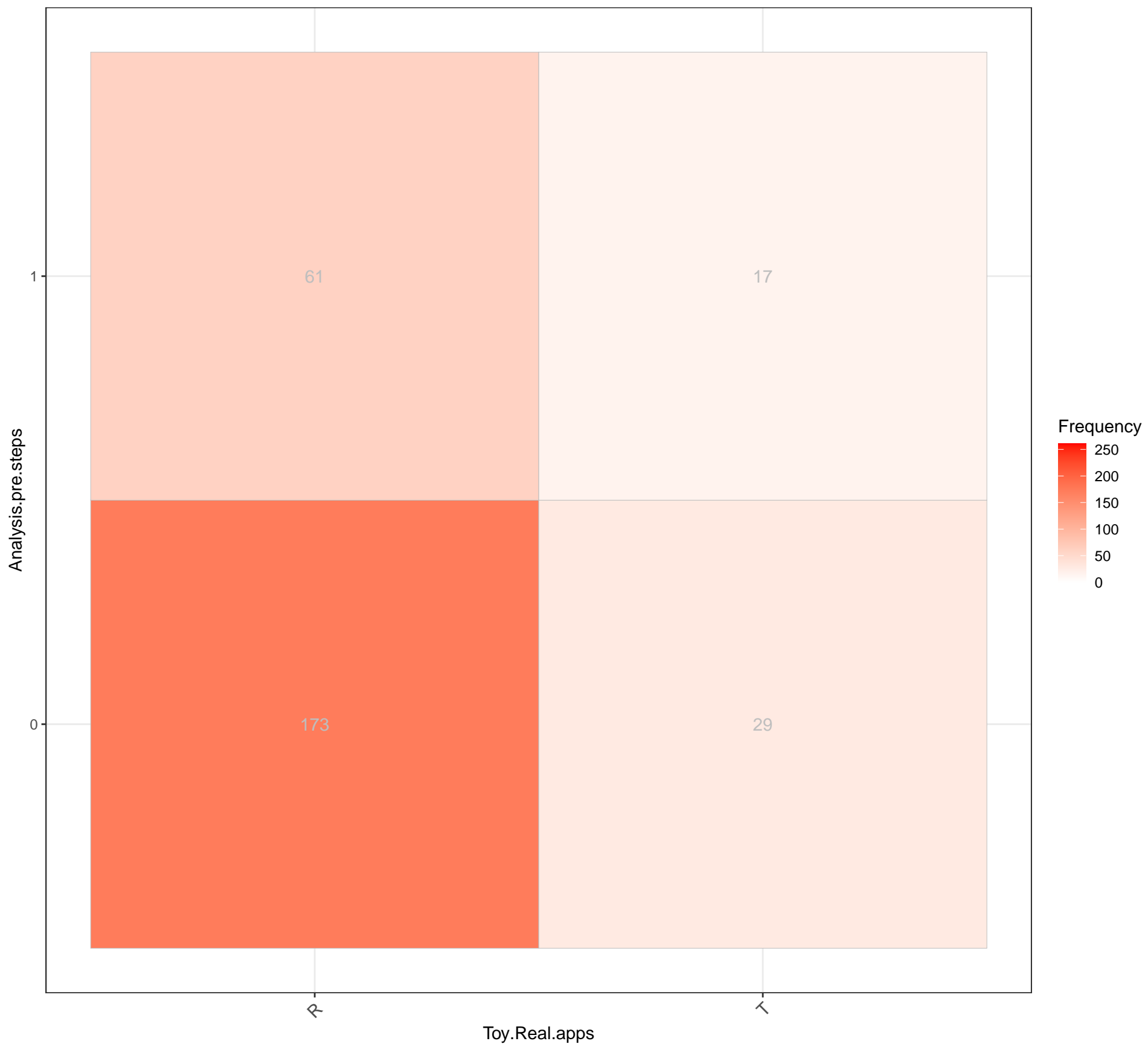
Analysis.pre.steps_____Tool.availability



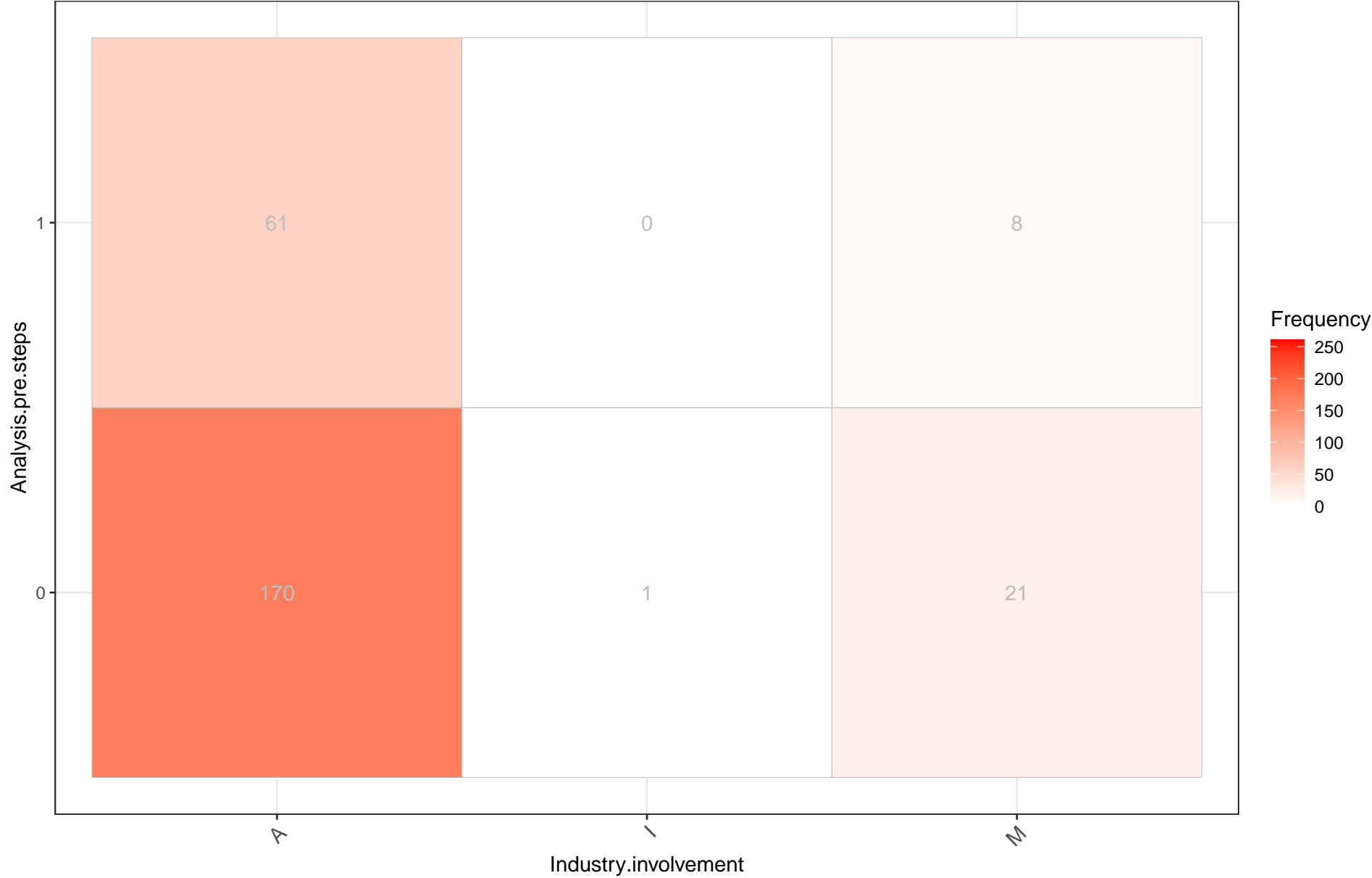
Analysis.pre.steps_____X..apps.evaluated

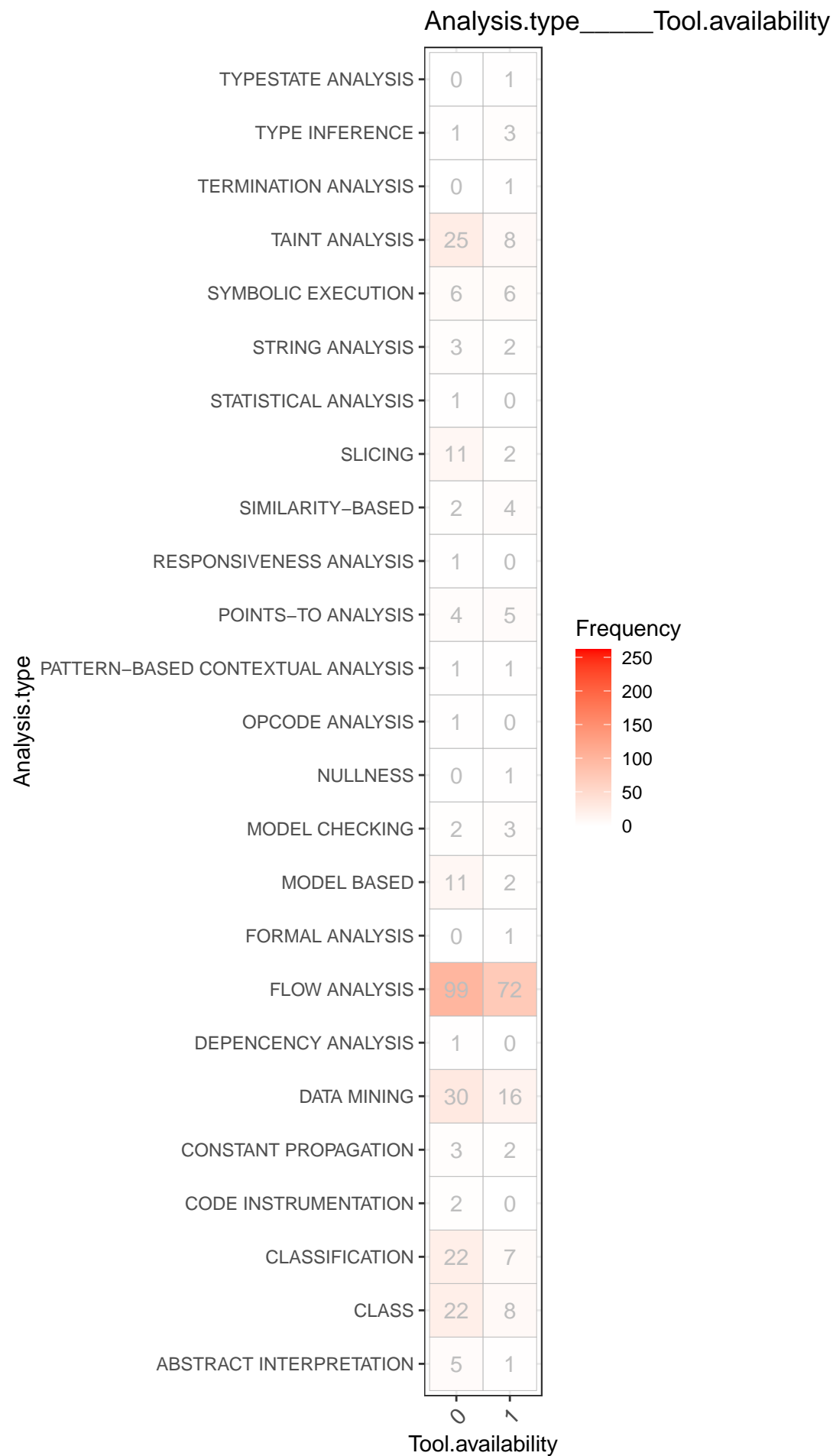


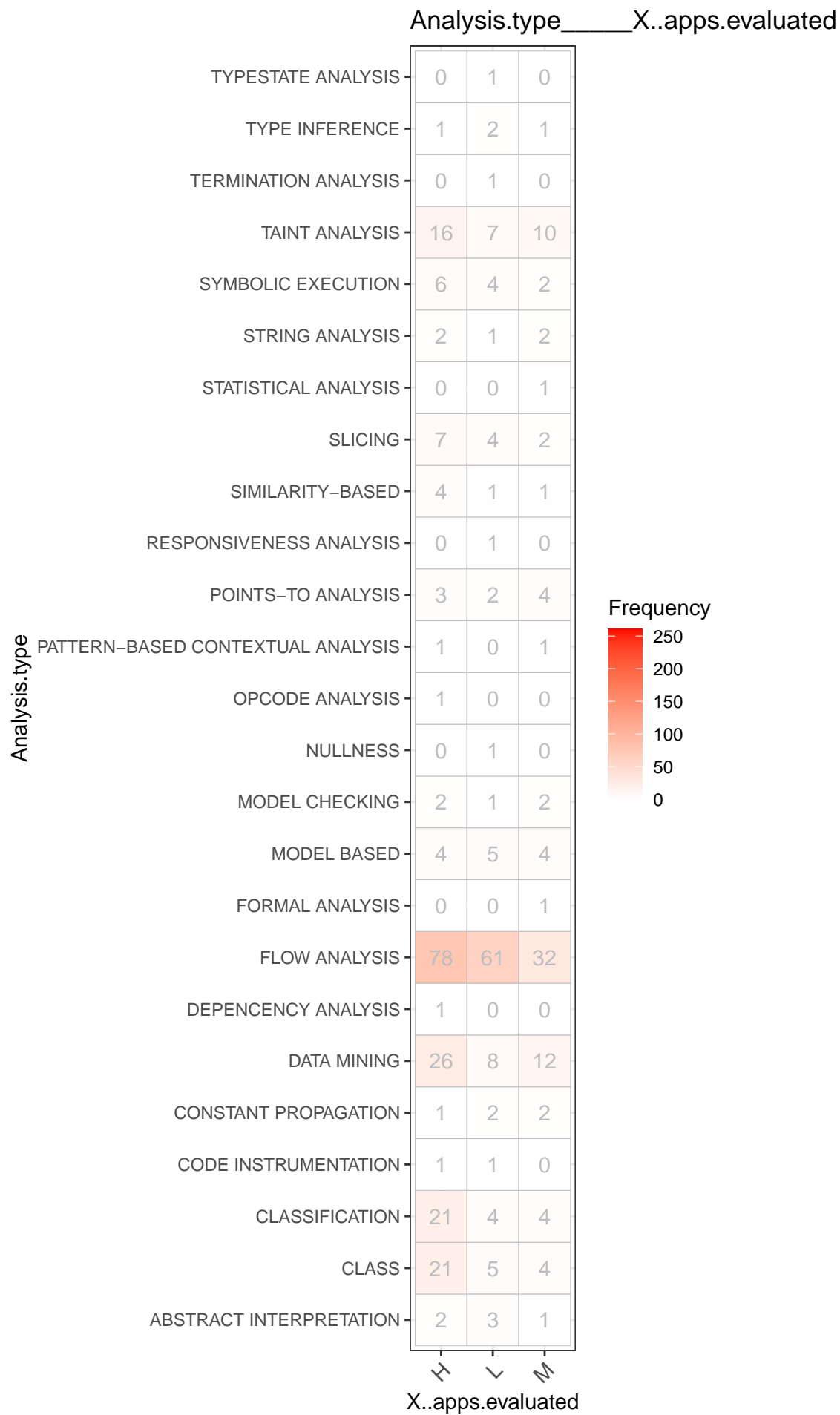
Analysis.pre.steps_____Toy.Real.apps

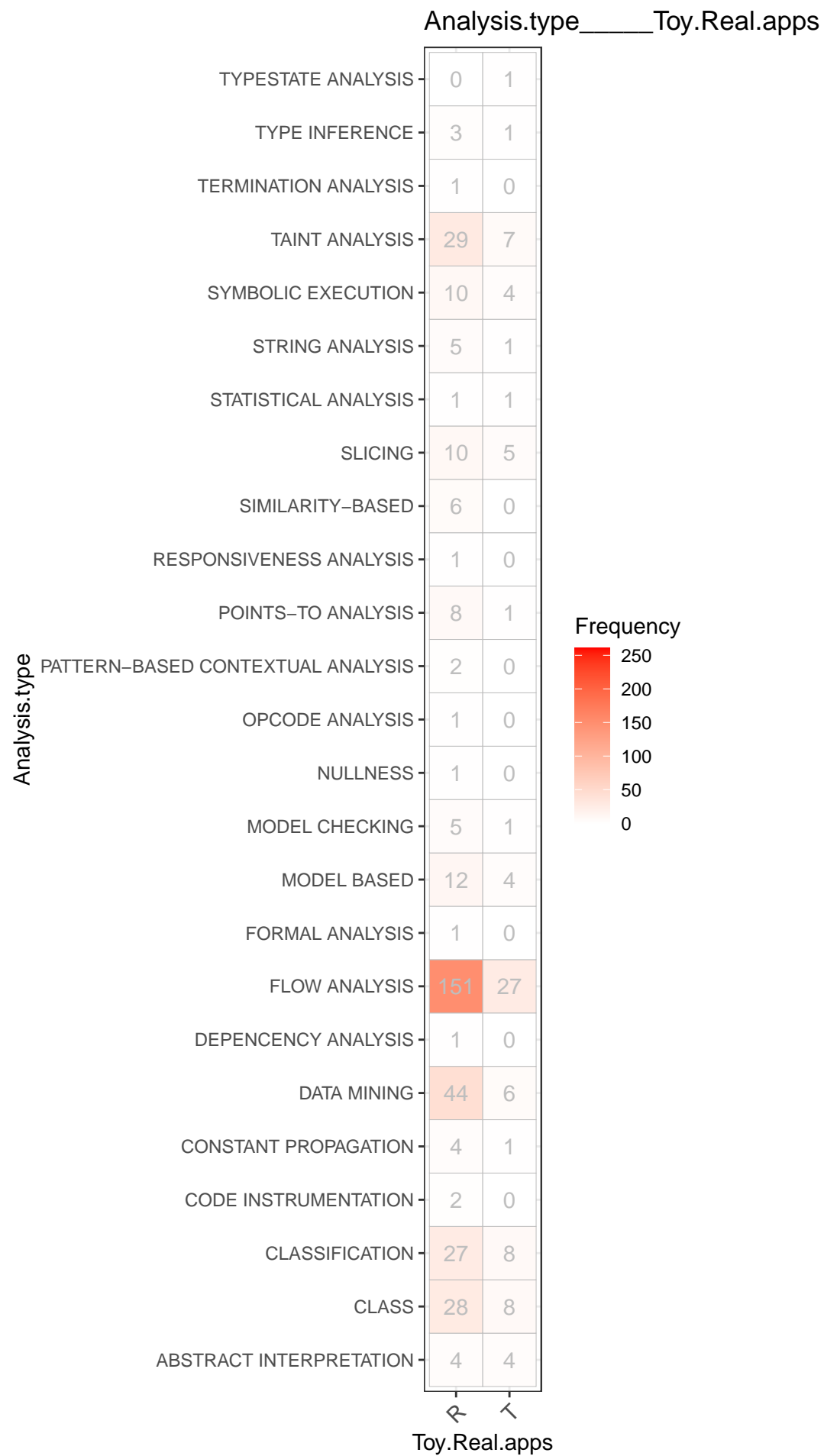


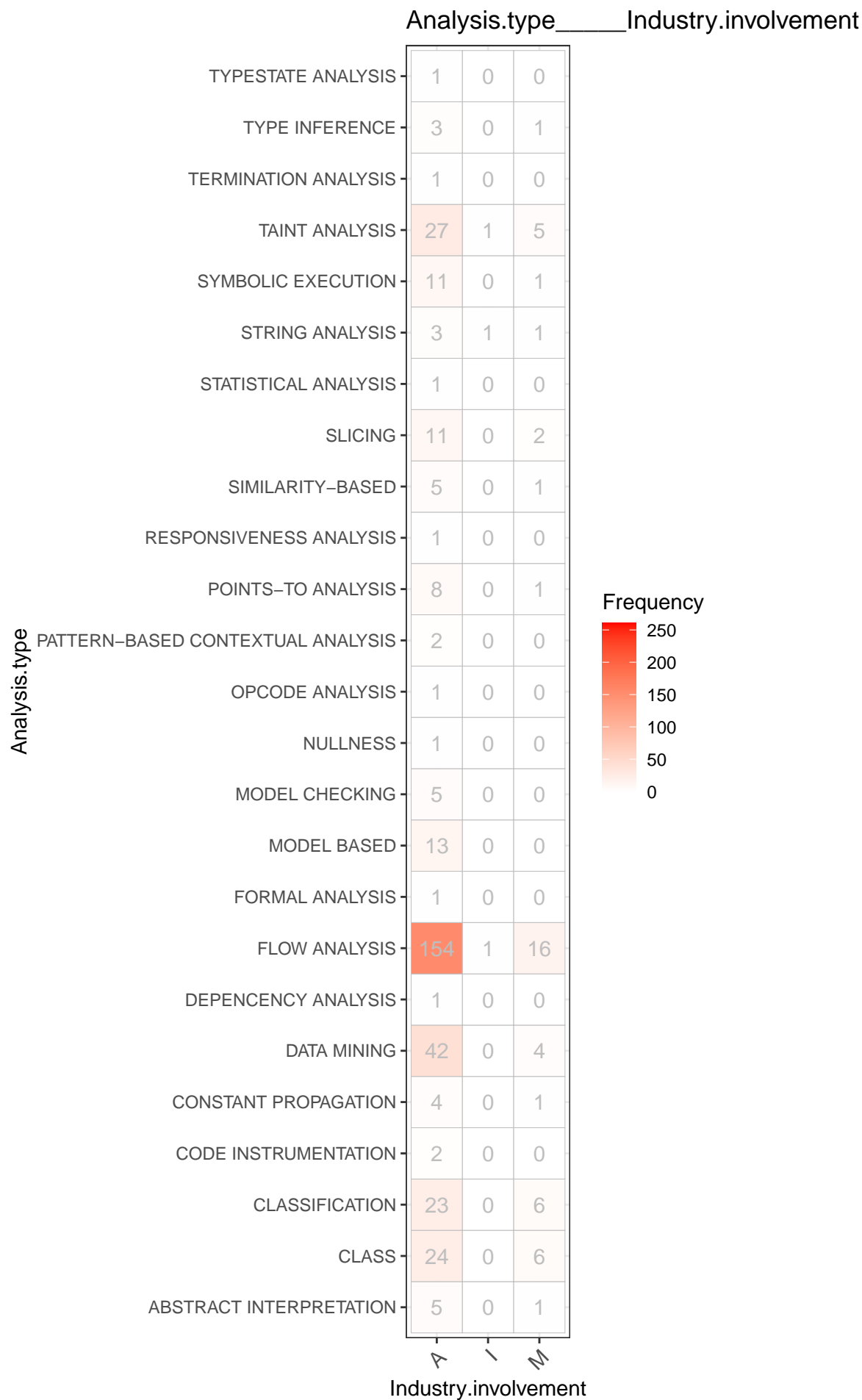
Analysis.pre.steps_____Industry.involvement



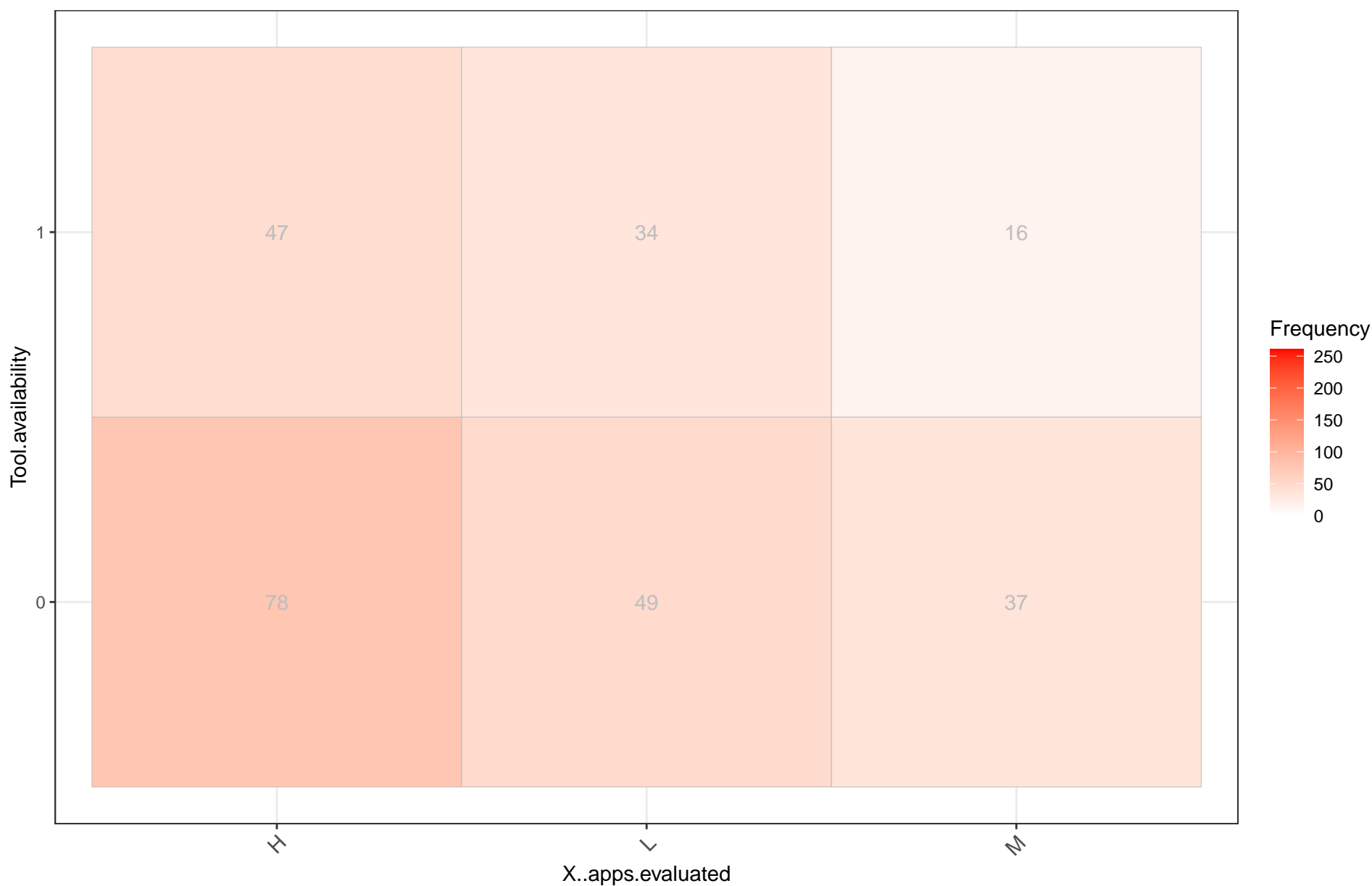








Tool.availability_____X..apps.evaluated



Tool.availability_____Toy.Real.apps

Tool.availability

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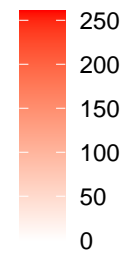
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Toy.Real.apps

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Frequency



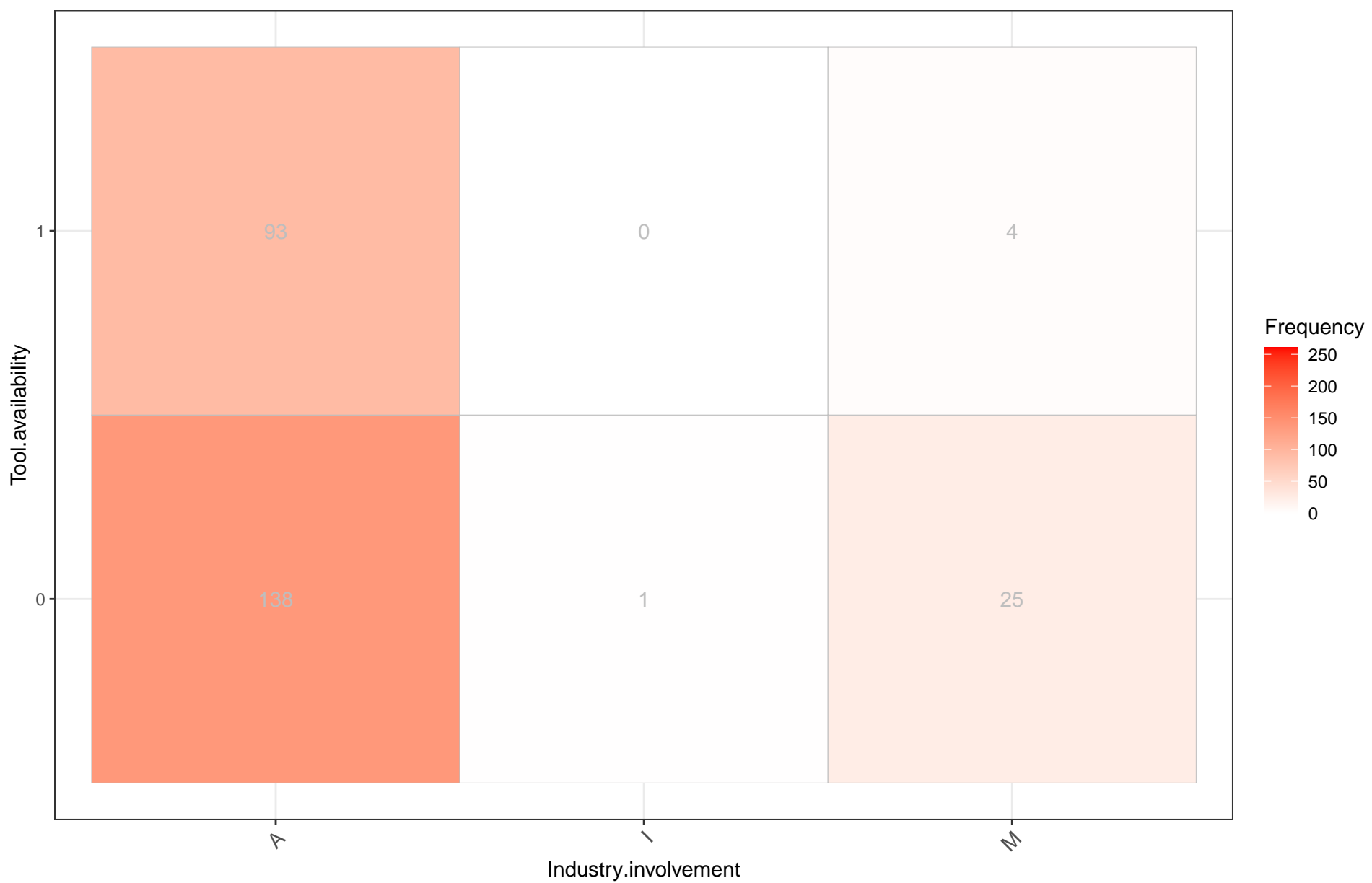
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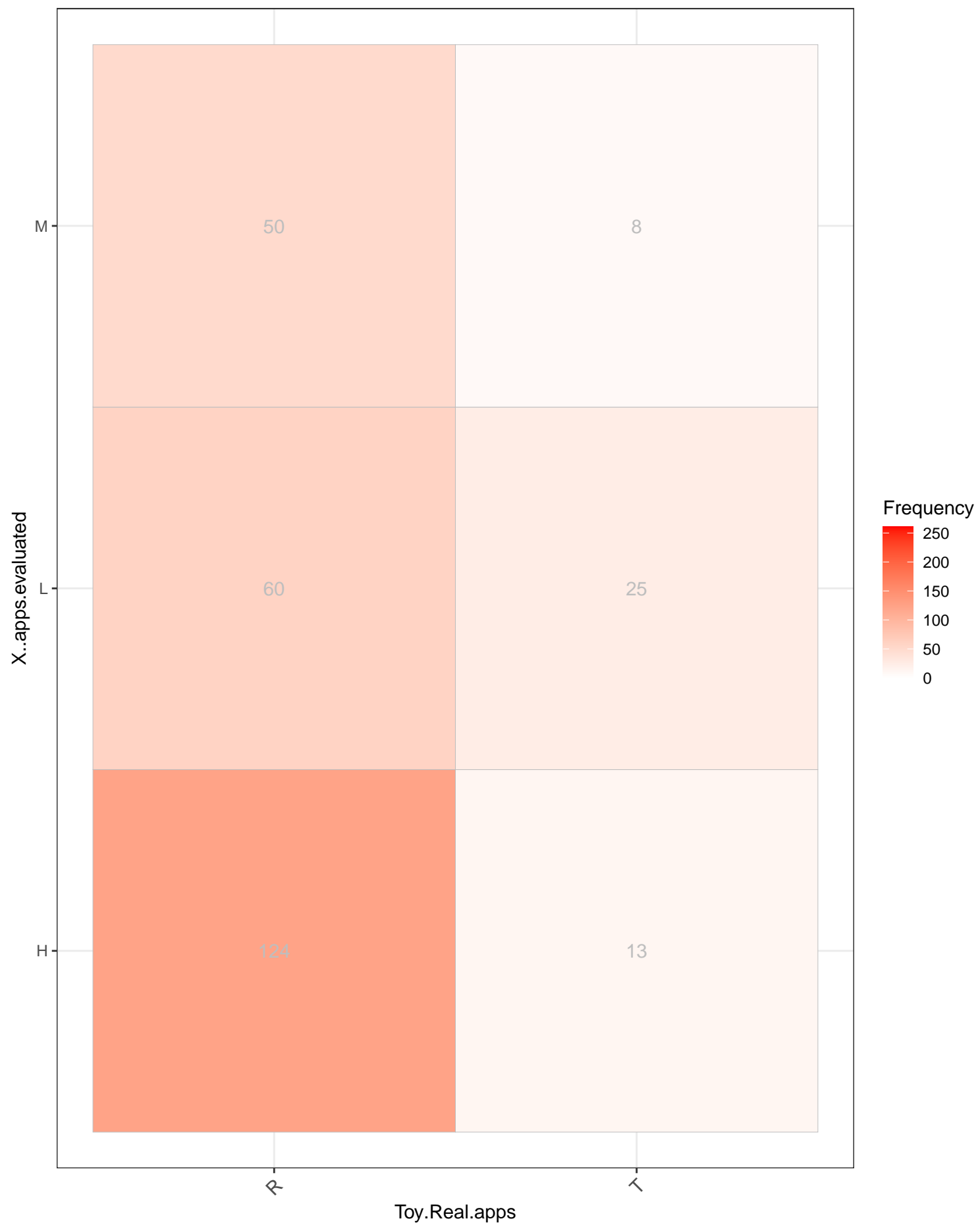
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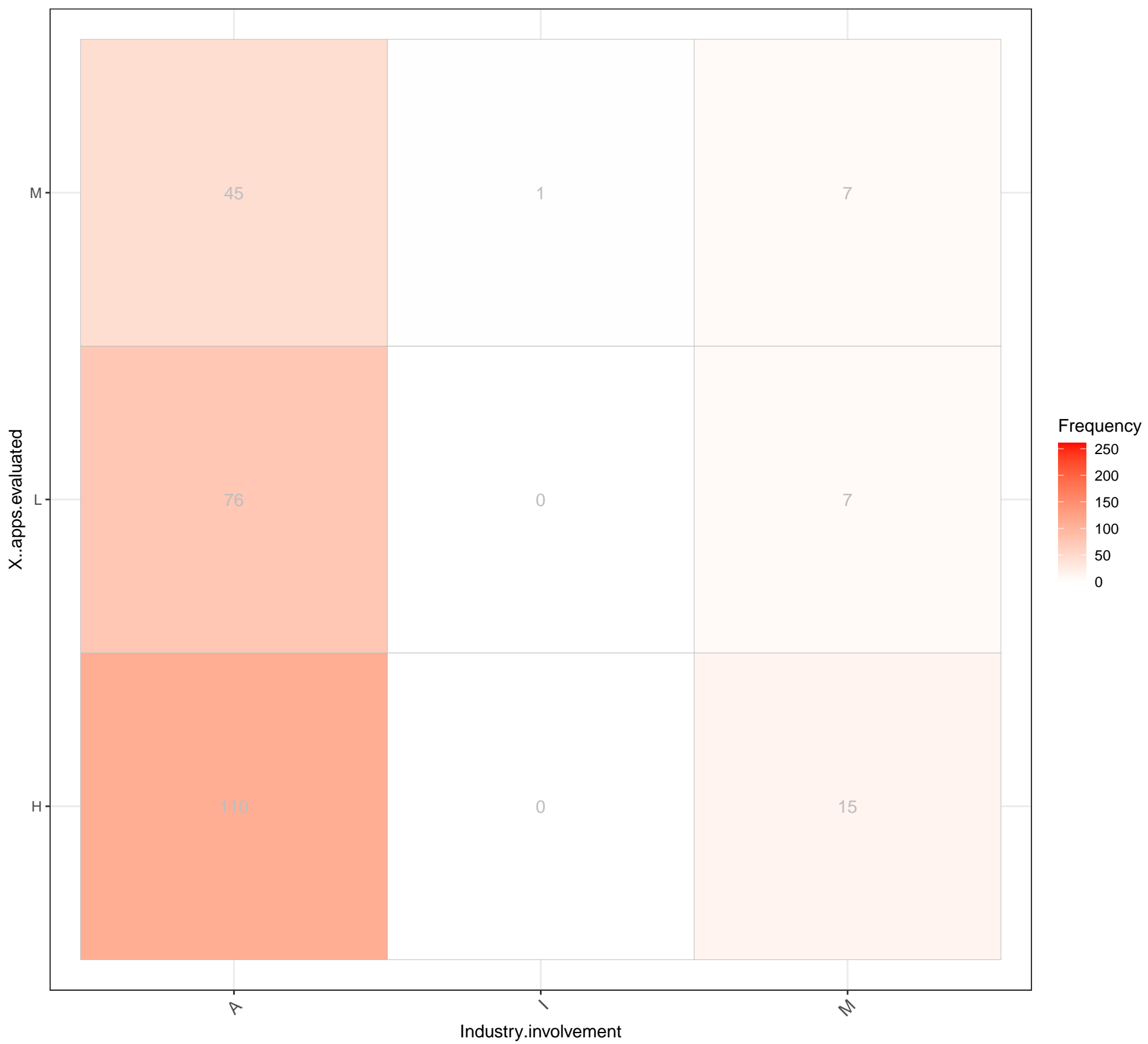
Tool.availability_____Industry.involvement



X..apps.evaluated_____Toy.Real.apps



X..apps.evaluated_____Industry.involvement



Toy.Real.apps_____Industry.involvement

