

Gestern lief's doch noch

Muss ich heute wirklich schon wieder alles testen?

Forschungsergebnisse & eigene Erfahrungen mit Test-Impact-Analyse

Über Mich

Forschung

- Test-Gap-Analyse, Defect Prediction, ...
- PC Mitglied von MSR, ICPC, ICSE, ...

Beratung

- Gründer und Mitglied der Geschäftsleitung
- Qualitäts-Bewertung & Qualitäts-Controlling

Gesellschaft für Informatik

- Zum Junior-Fellow ernannt
- Erfahrungsaustausch Forschung <-> Praxis



com.teamscale.test.ui.architecture.ArchitecturePerspectiveTest - testViewingArchitectureElements

Runs: 1/227

 Errors: 0

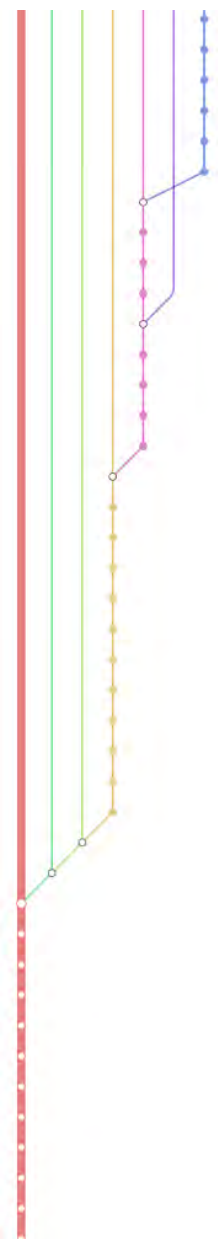
 Failures: 0

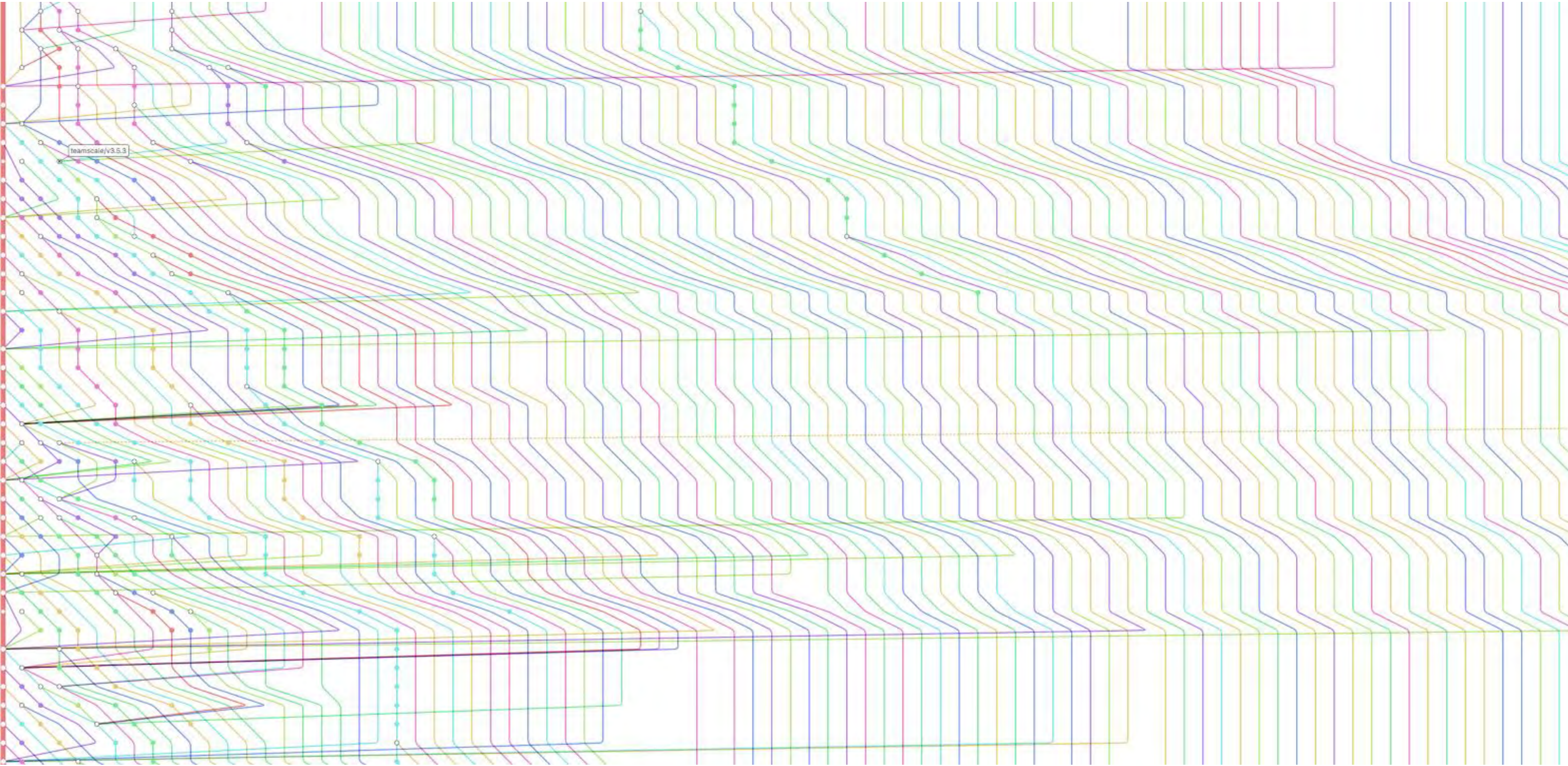
- ▼  com.teamscale.test.ui.architecture.ArchitecturePerspectiveTest [Runner: JUnit 5]
 -  testViewingArchitectureElements
 -  createArchitectureTest
 -  testTimetravelMode
 -  testUndoRedo
 -  testArchitecturePolicyUpdate
 -  testOpenCodeOfOrphans

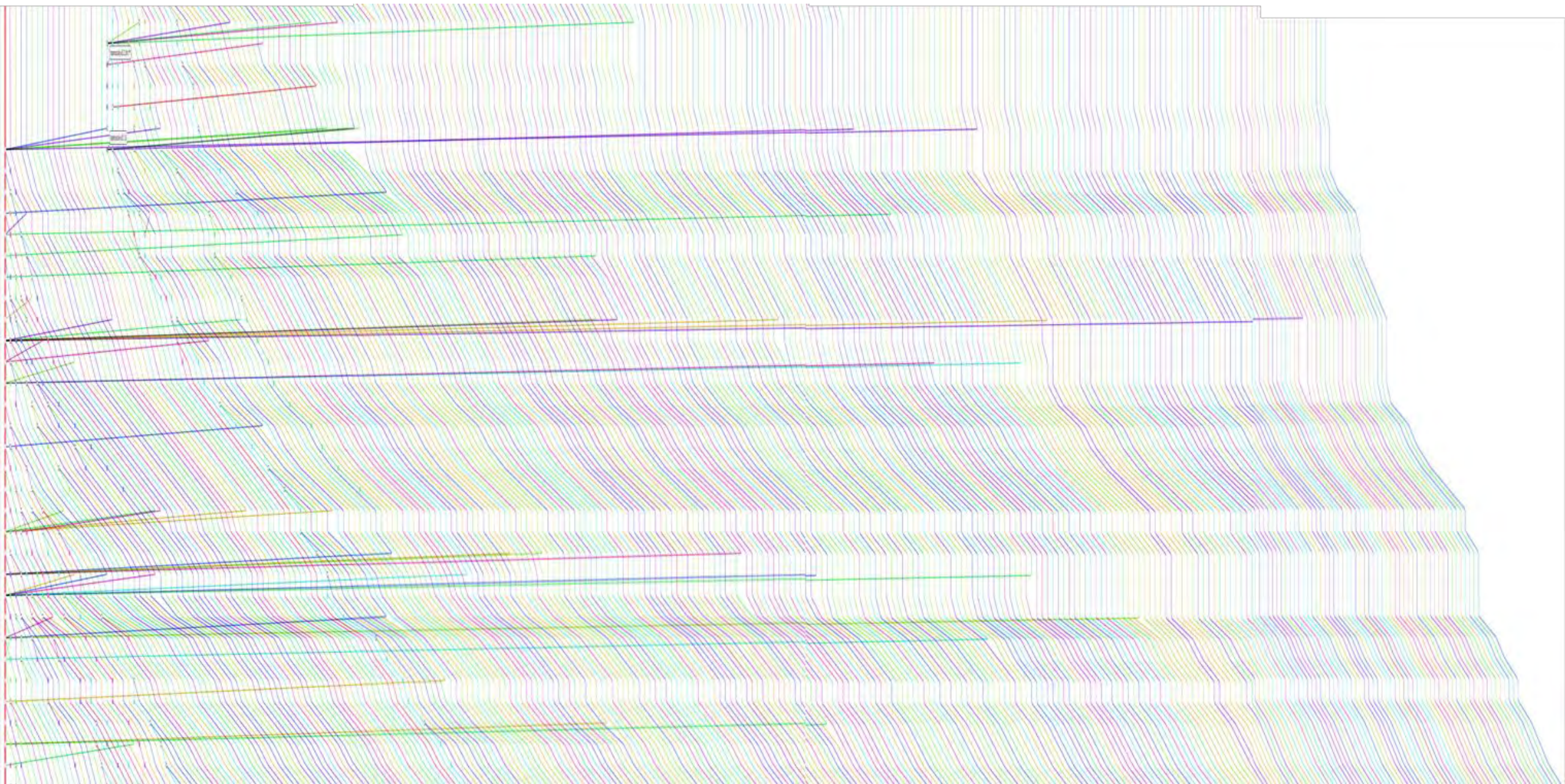
 Failure Trace

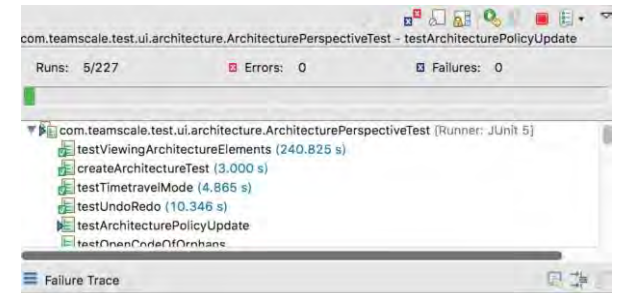
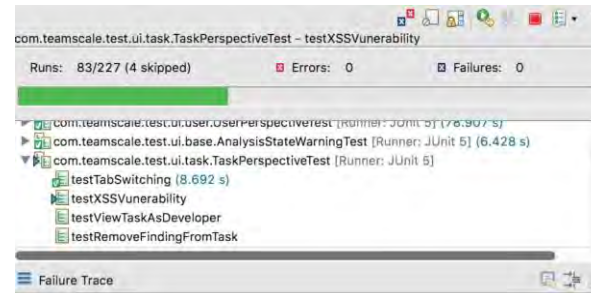
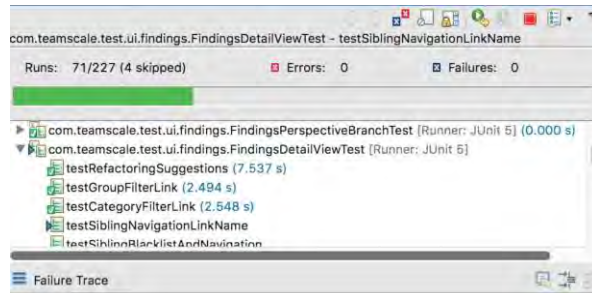
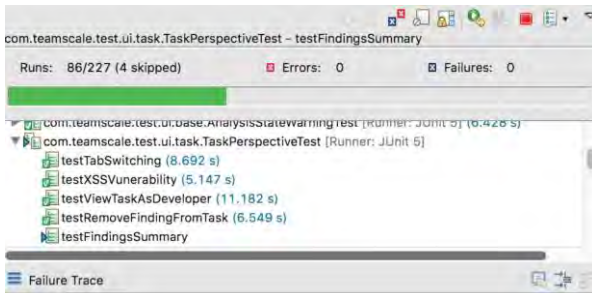
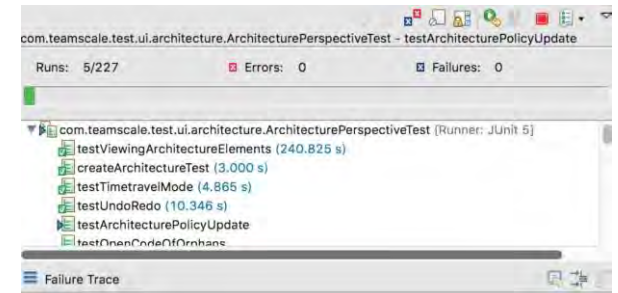
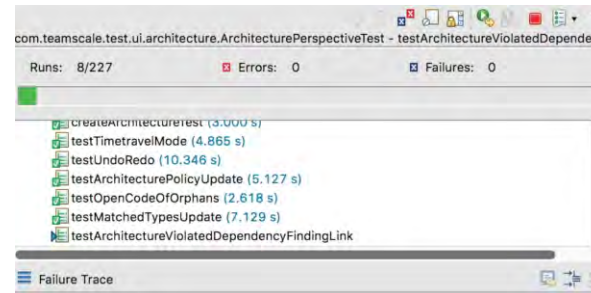
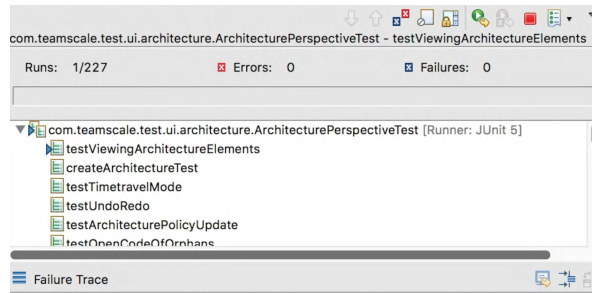
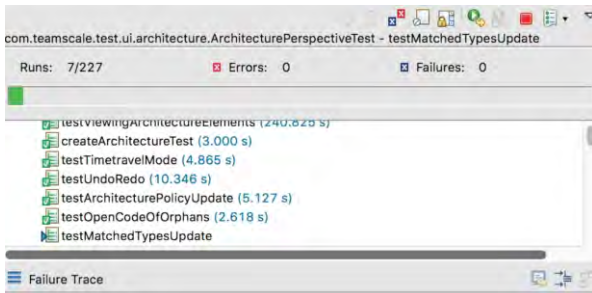
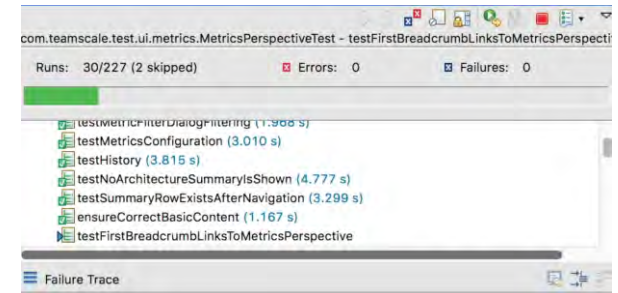
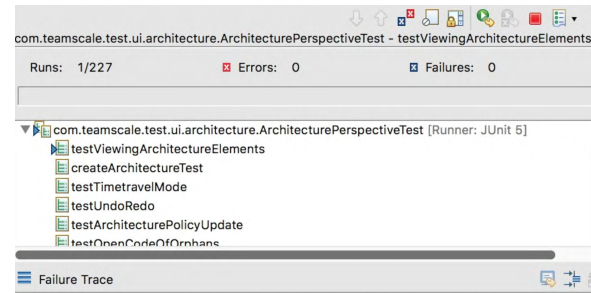
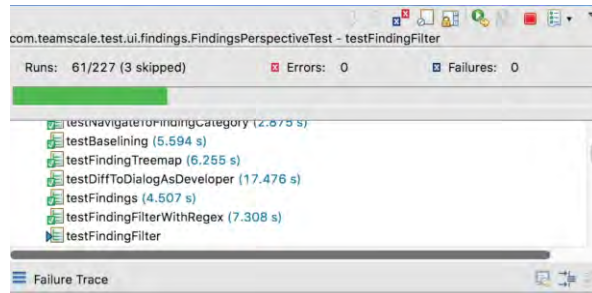
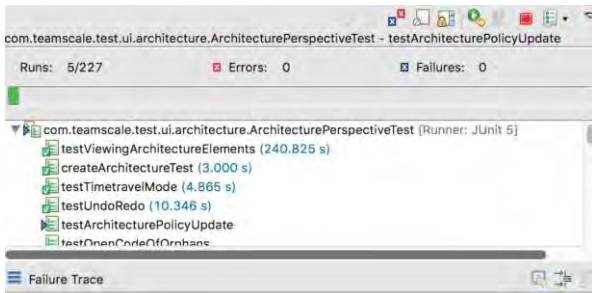
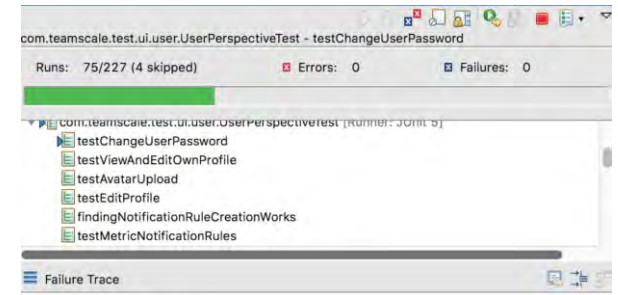
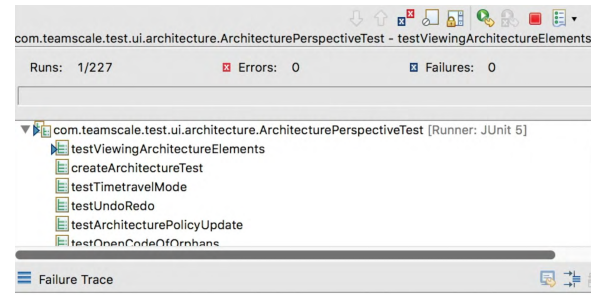
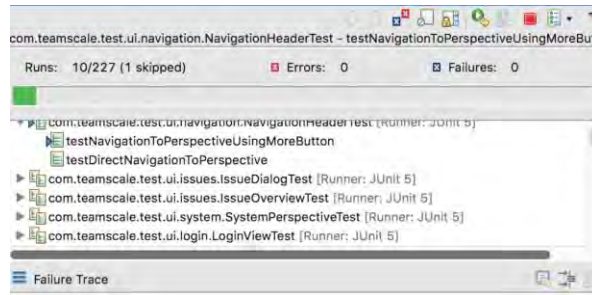
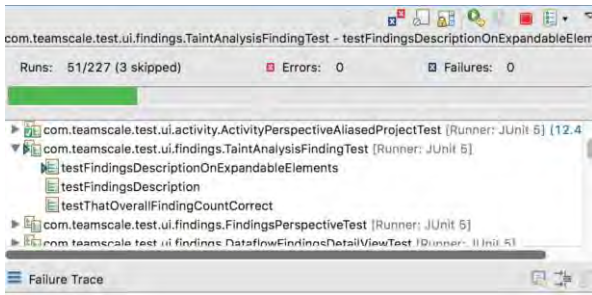


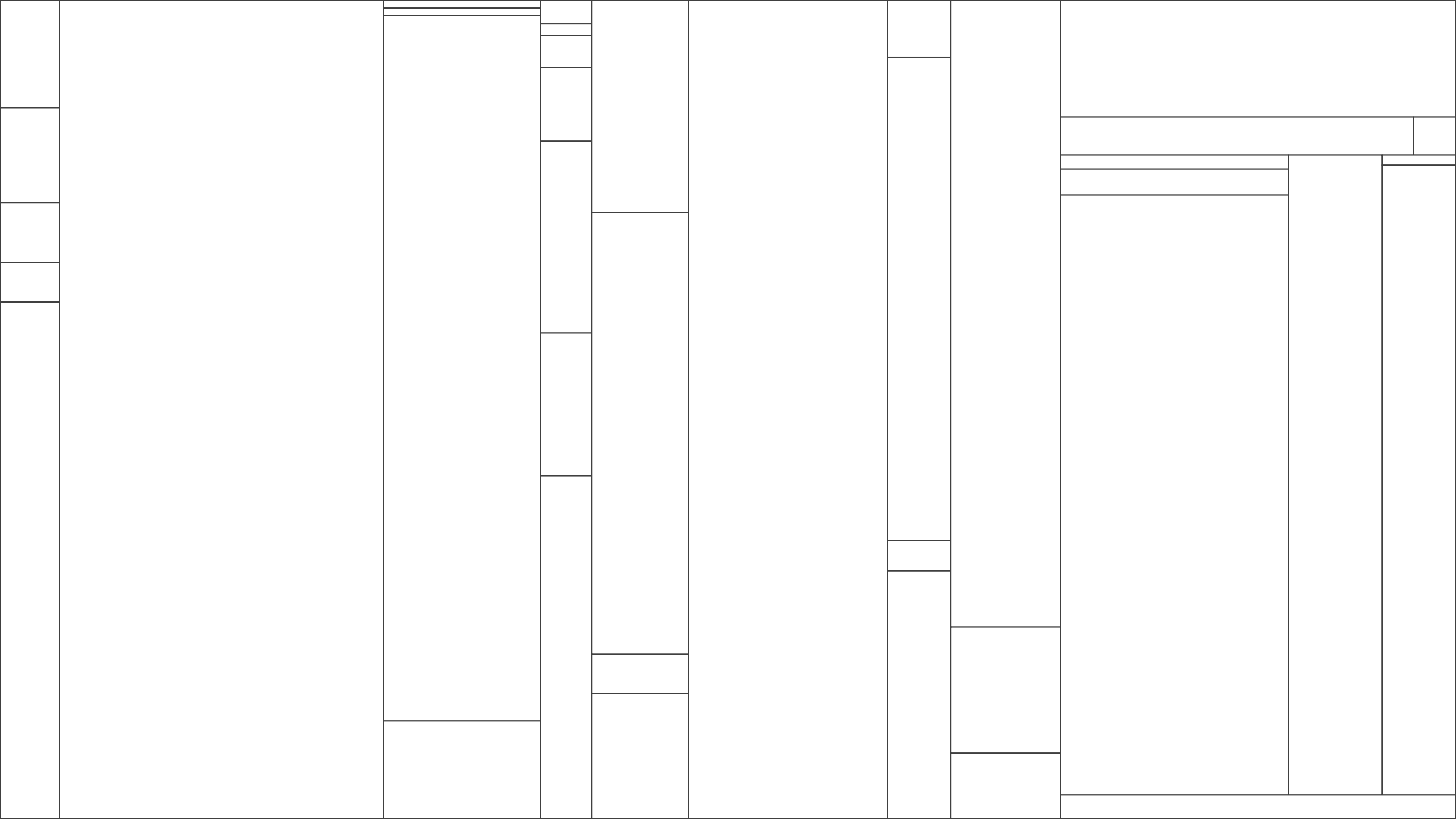


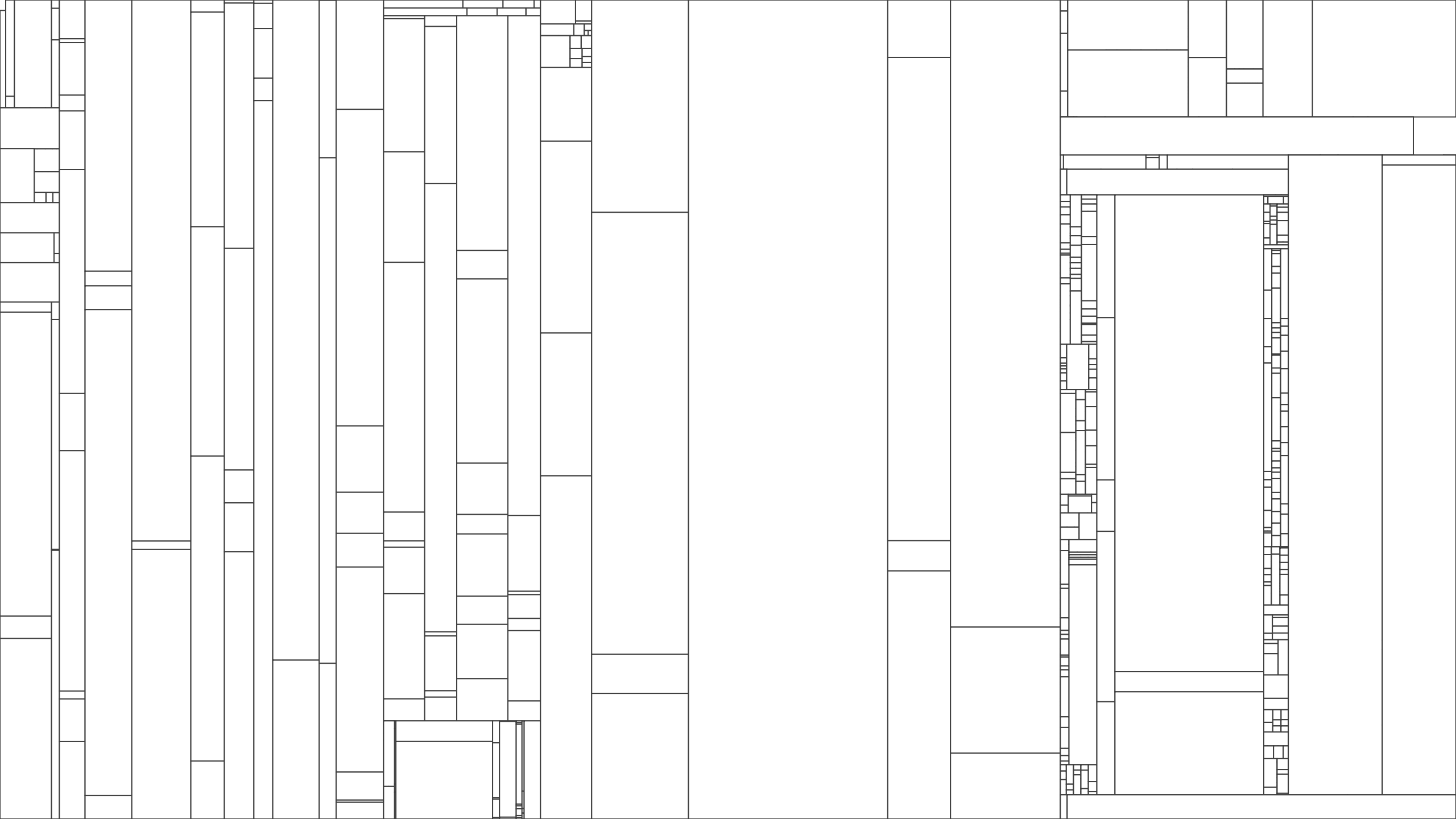


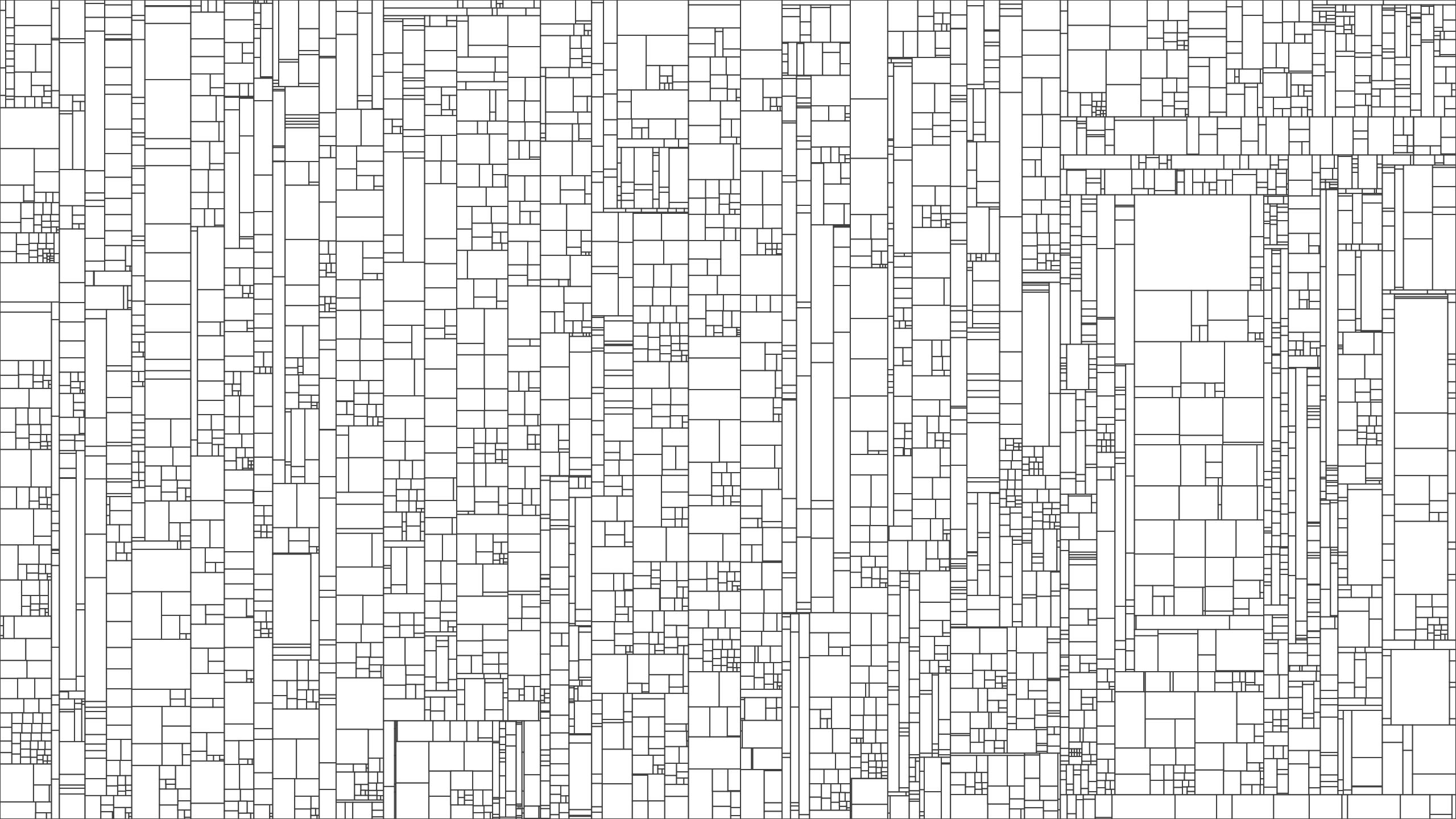


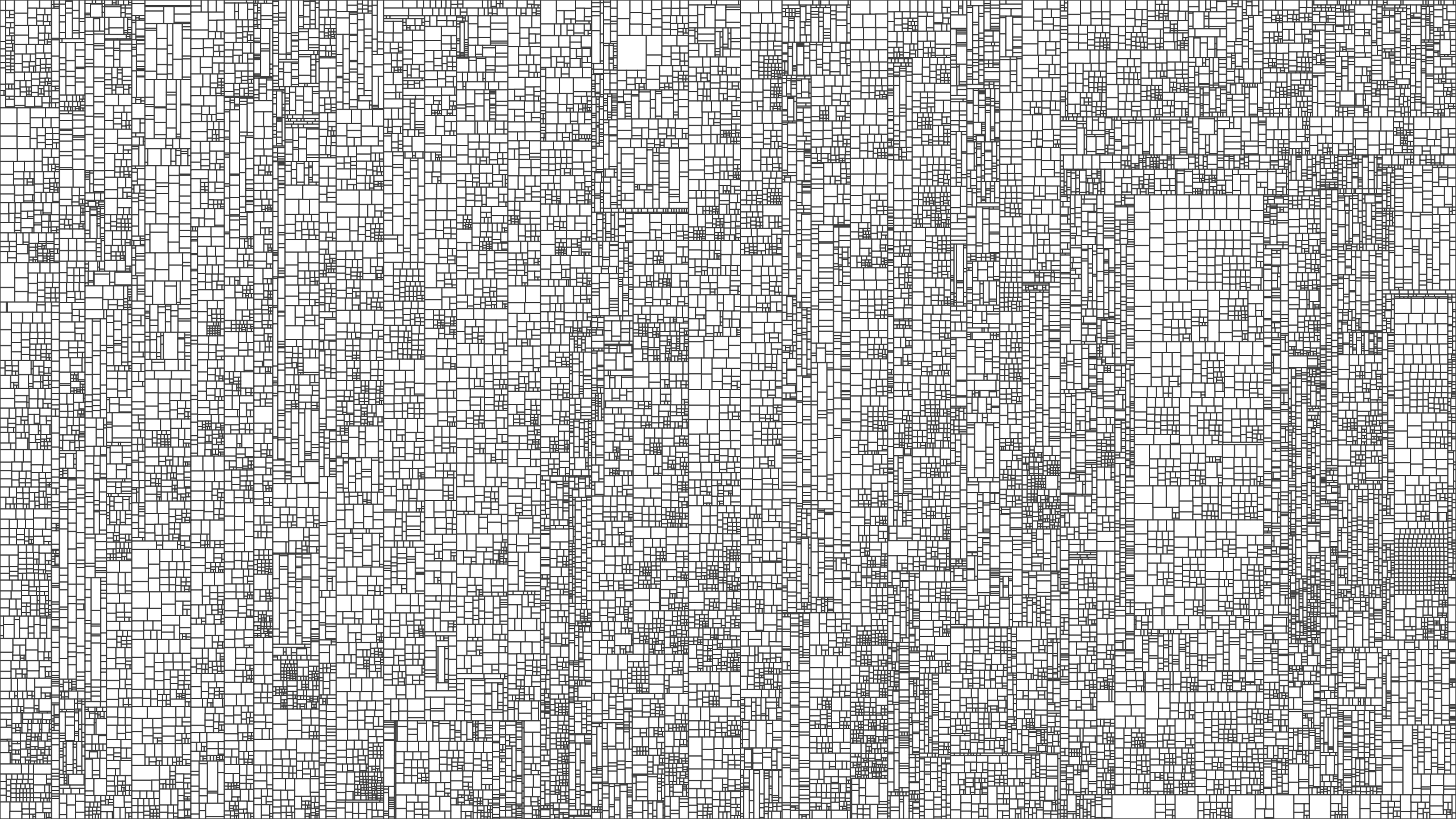


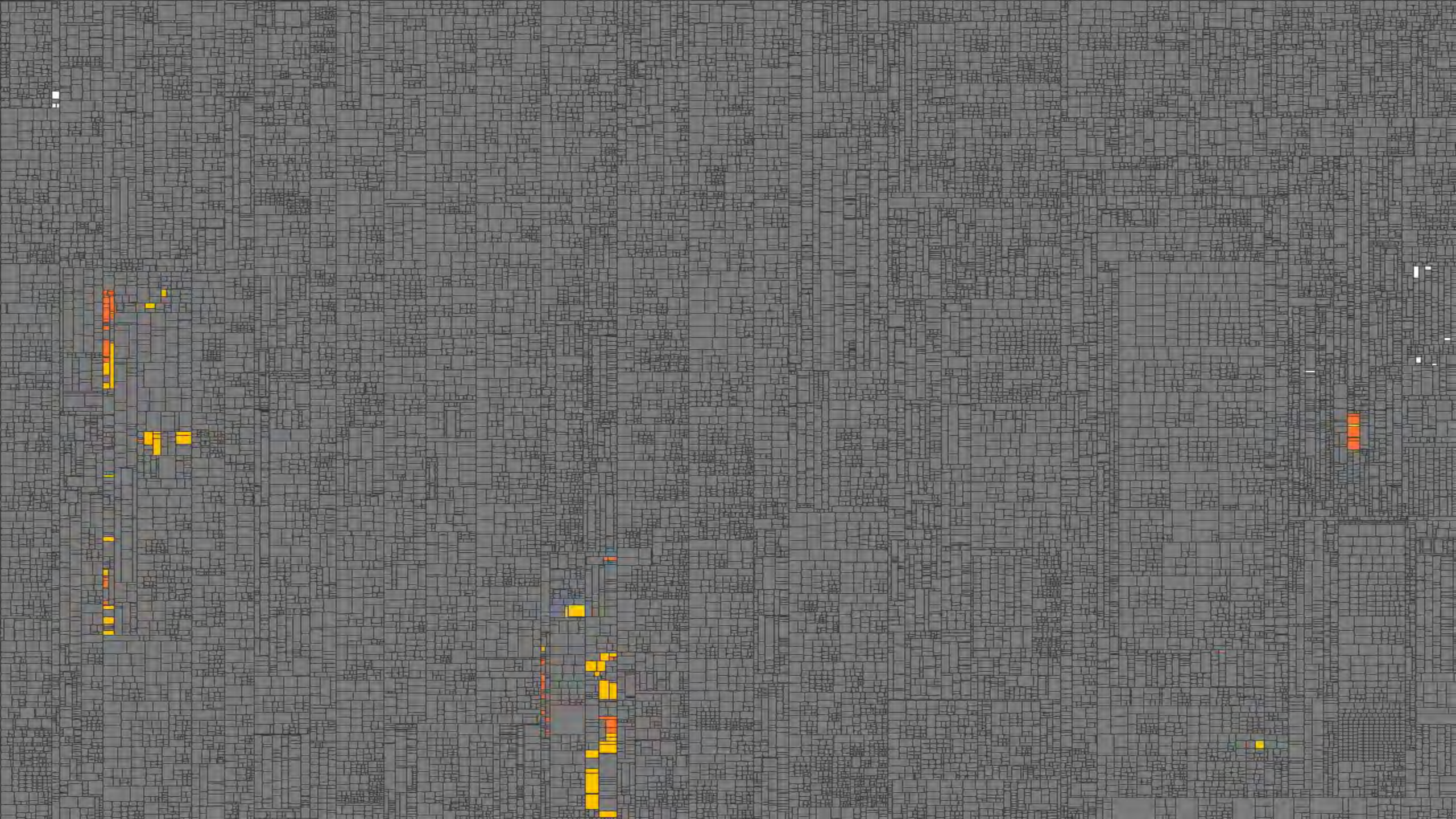


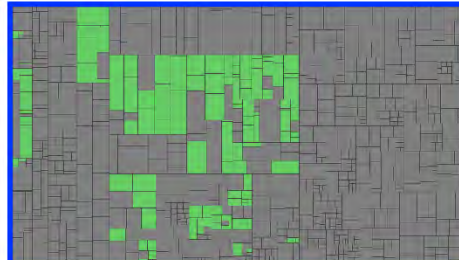
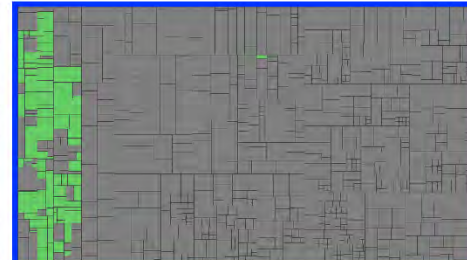
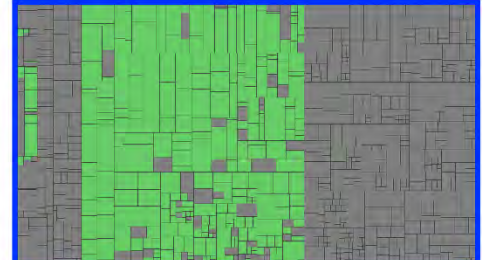
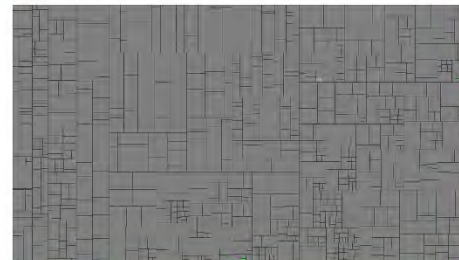
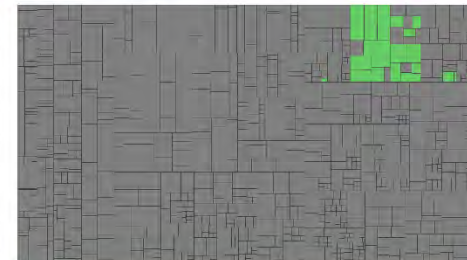
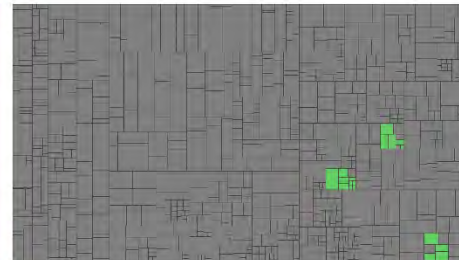
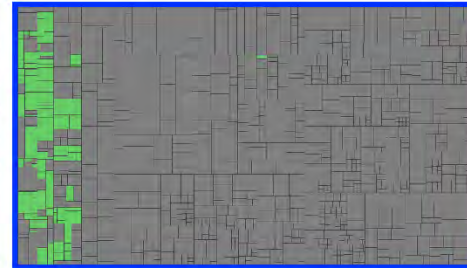
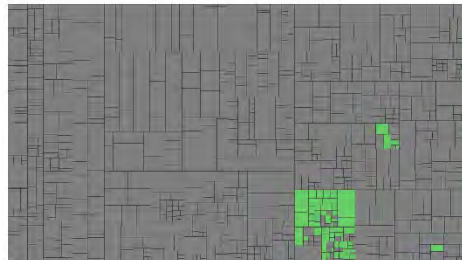
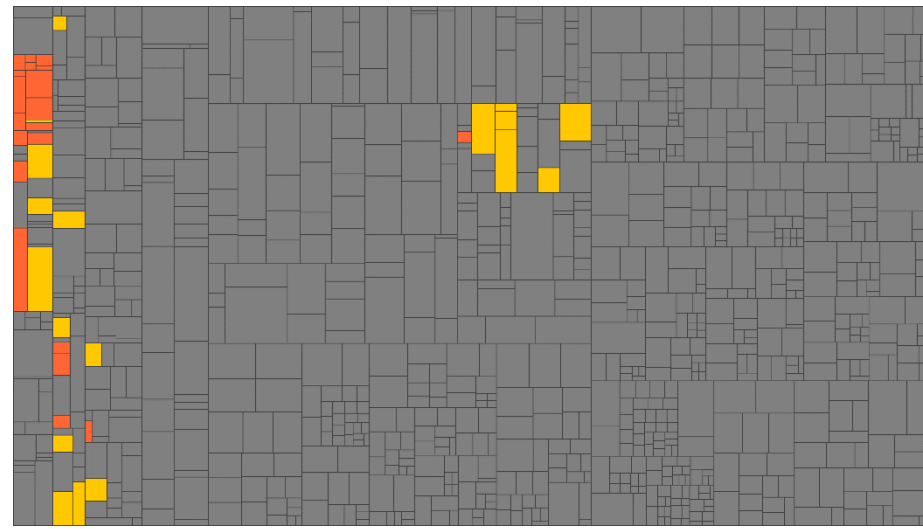




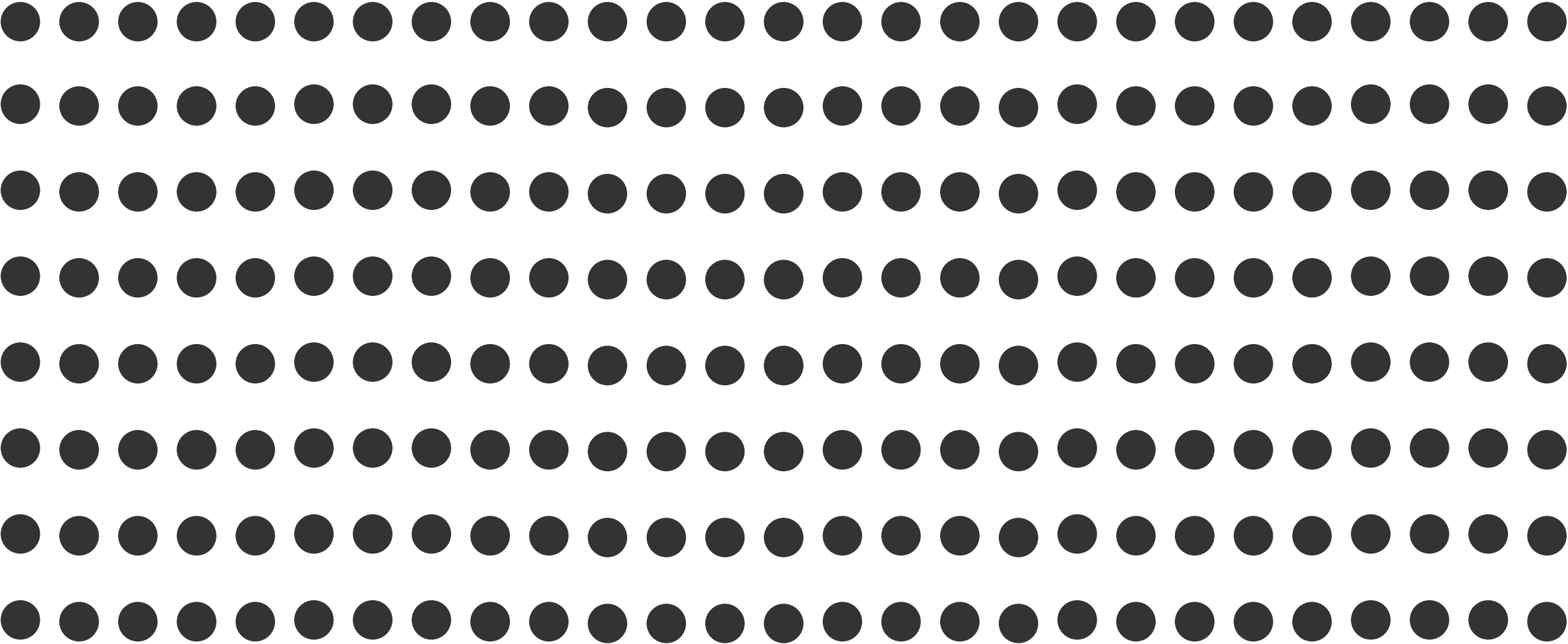




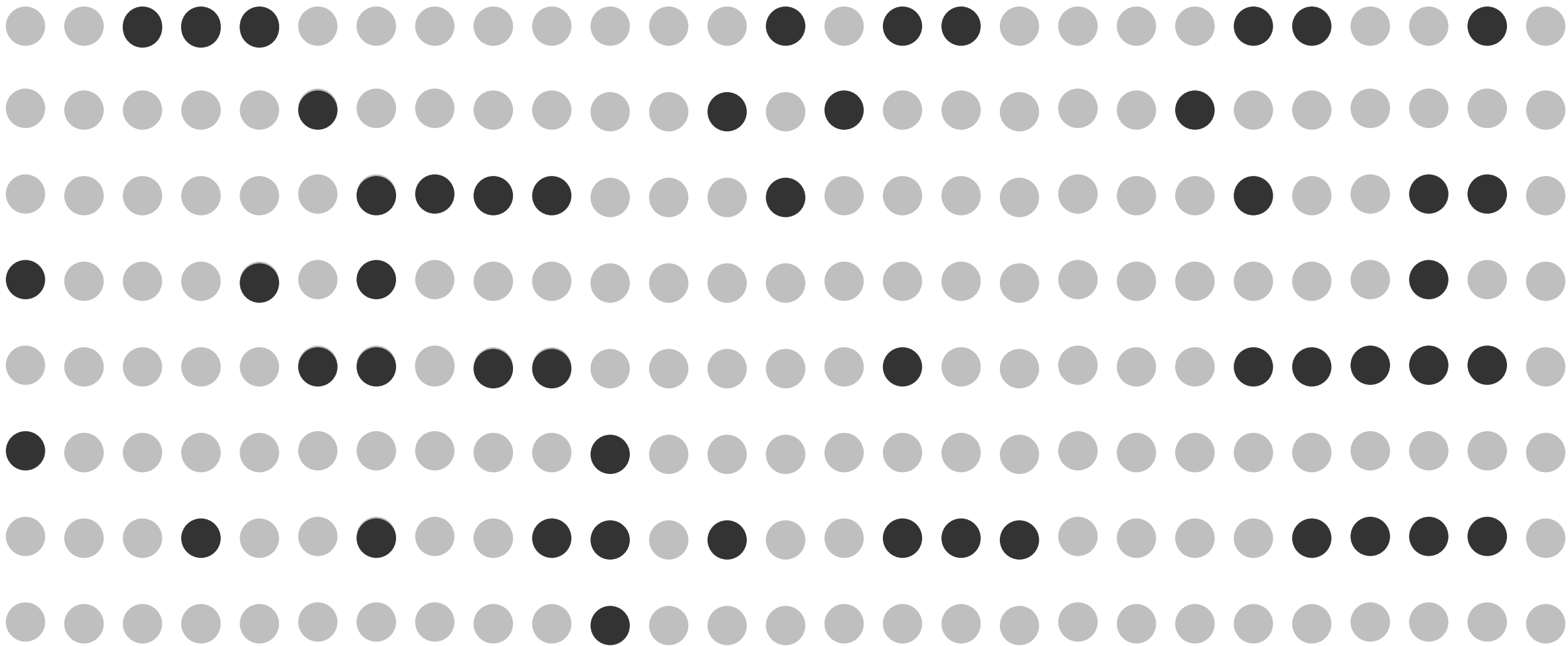




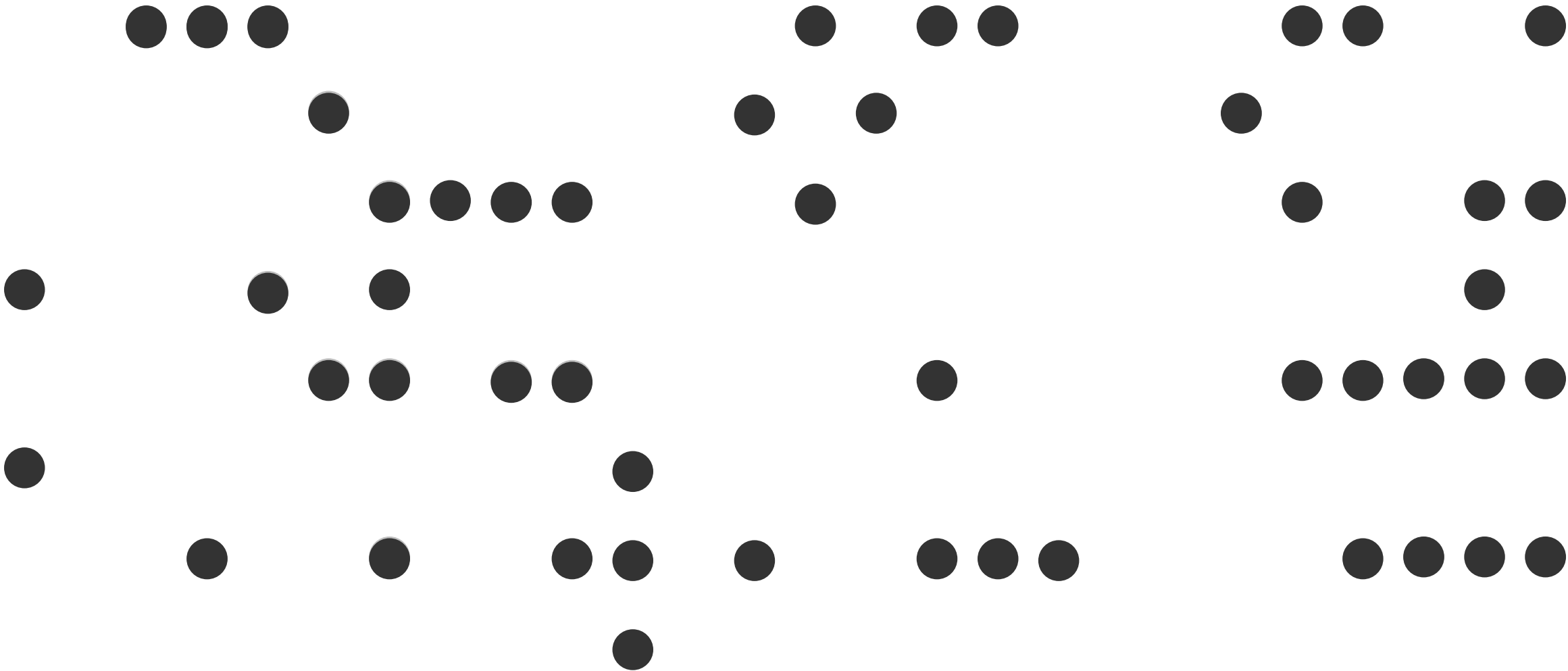
... 1000+ Testfälle
ohne Überdeckung



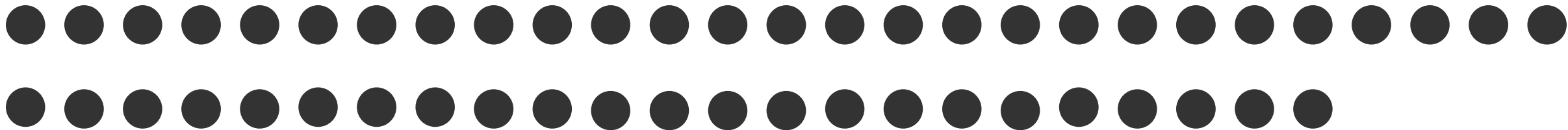
Schritt 1: Selektion betroffener Testfälle



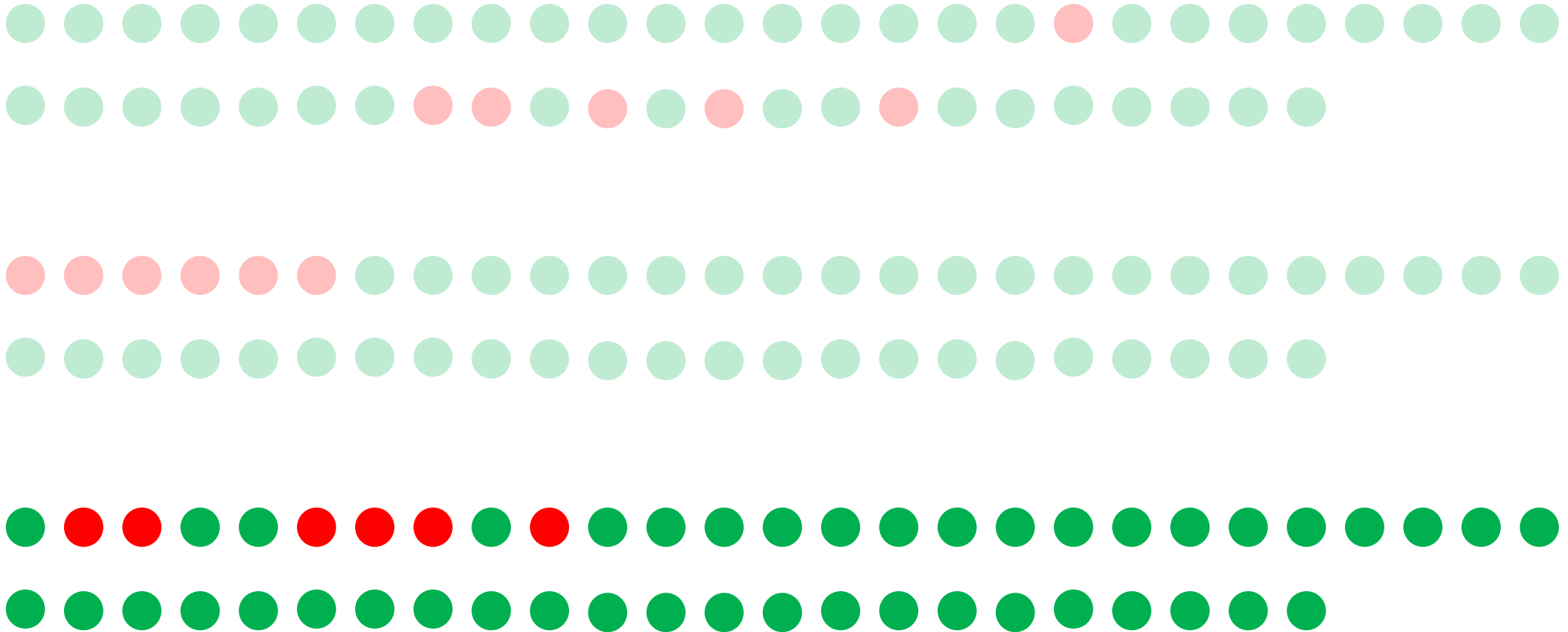
Schritt 1: Selektion betroffener Testfälle

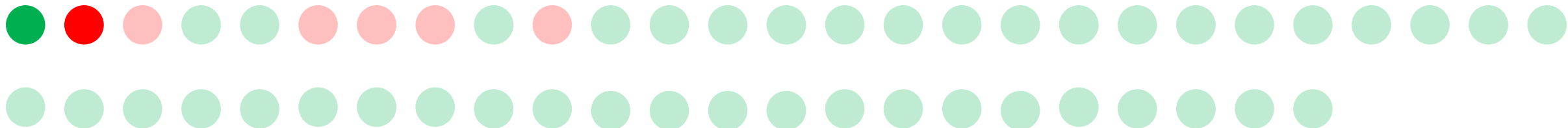
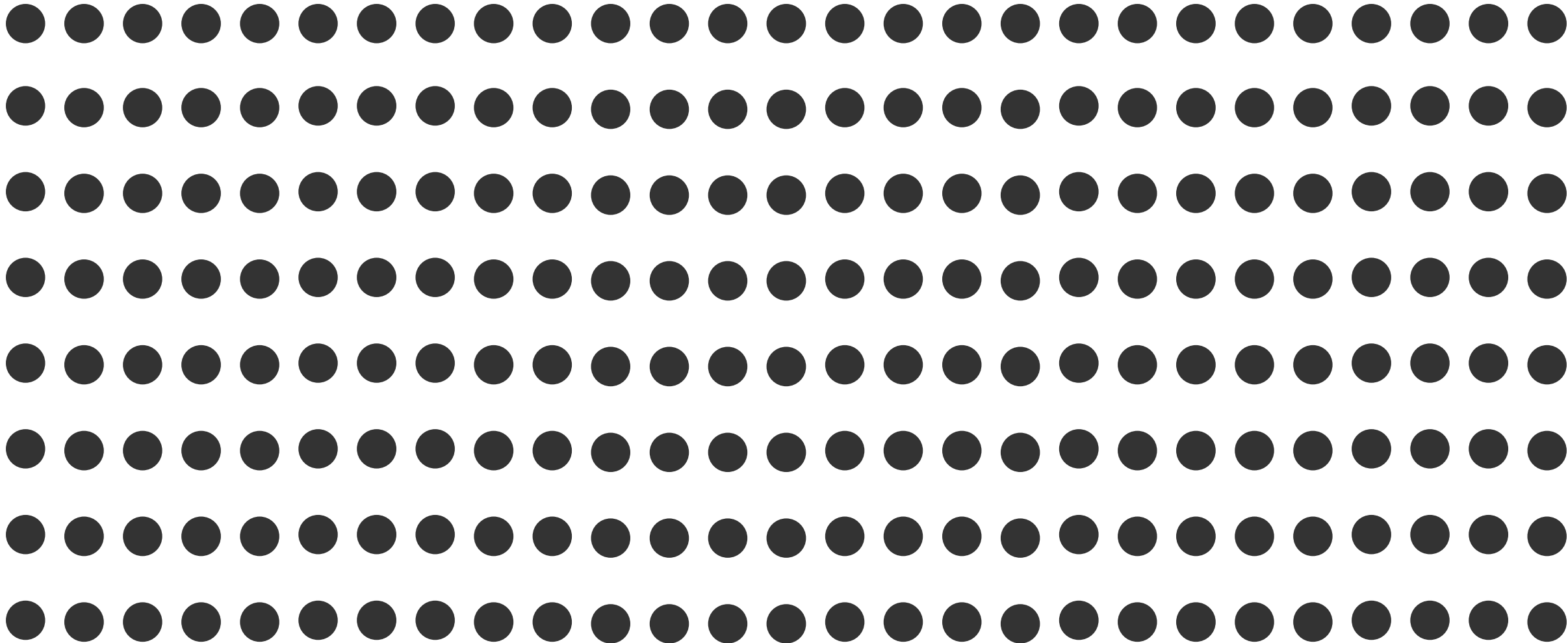


Schritt 1: Selektion betroffener Testfälle



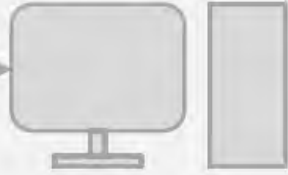
Schritt 2: Priorisierung selektierter Testfälle



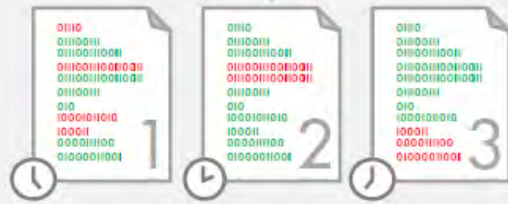




Alle Tests



Testumgebung



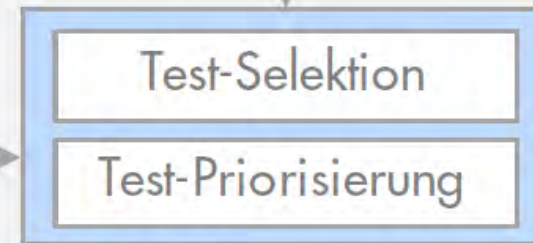
Testfallspezifische
Coverage und Laufzeiten



Versionskontrollsystem



Änderungen



Änderungsrelevante,
geordnete Teilmenge
der Tests



1

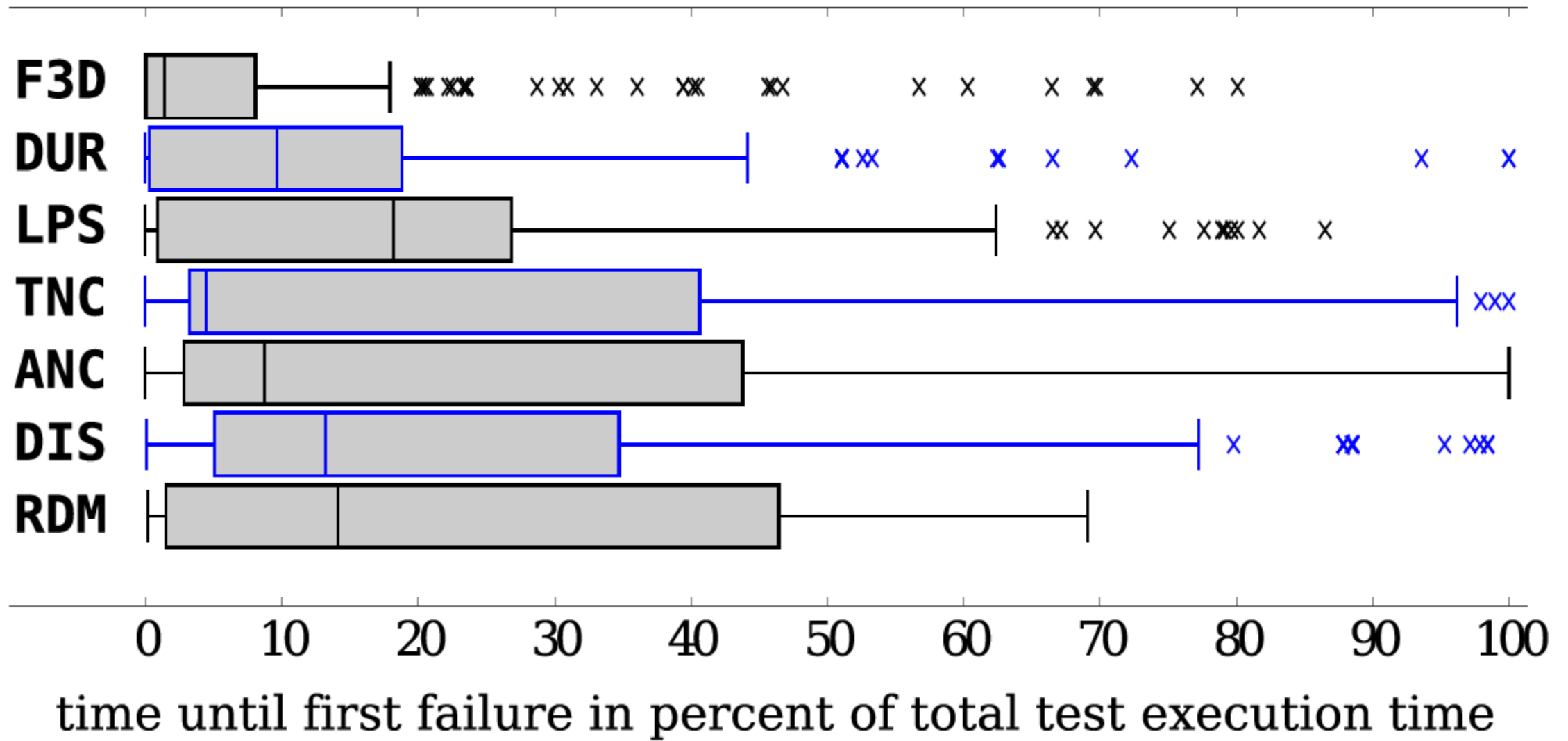
2

EINSPARUNG DURCH AUSFÜHRUNG DER IMPACTED TESTS

Studienobjekt	Laufzeit (ms)		Ersparnis
	Alle Tests	Impacted Tests	
Apache Commons Collections	25.277	610	97,59%
Apache Commons Lang	24.987	3.111	87,55%
Apache Commons Math	160.391	114.042	28,90%
Histone Template Engine 2	34.603	32.204	6,93%
JabRef	119.849	40.721	66,02%
Joda-Time	20.782	1.297	93,76%
Lightweight-Stream-API	1.523	480	68,48%
LittleProxy	155.334	150.406	3,17%
OkHttp	96.671	76.457	20,91%
RxJava	464.018	170.575	63,24%
Symia Commons Math Parser	528	528	0,00%
Teamscale	1.249.088	196.684	84,25%

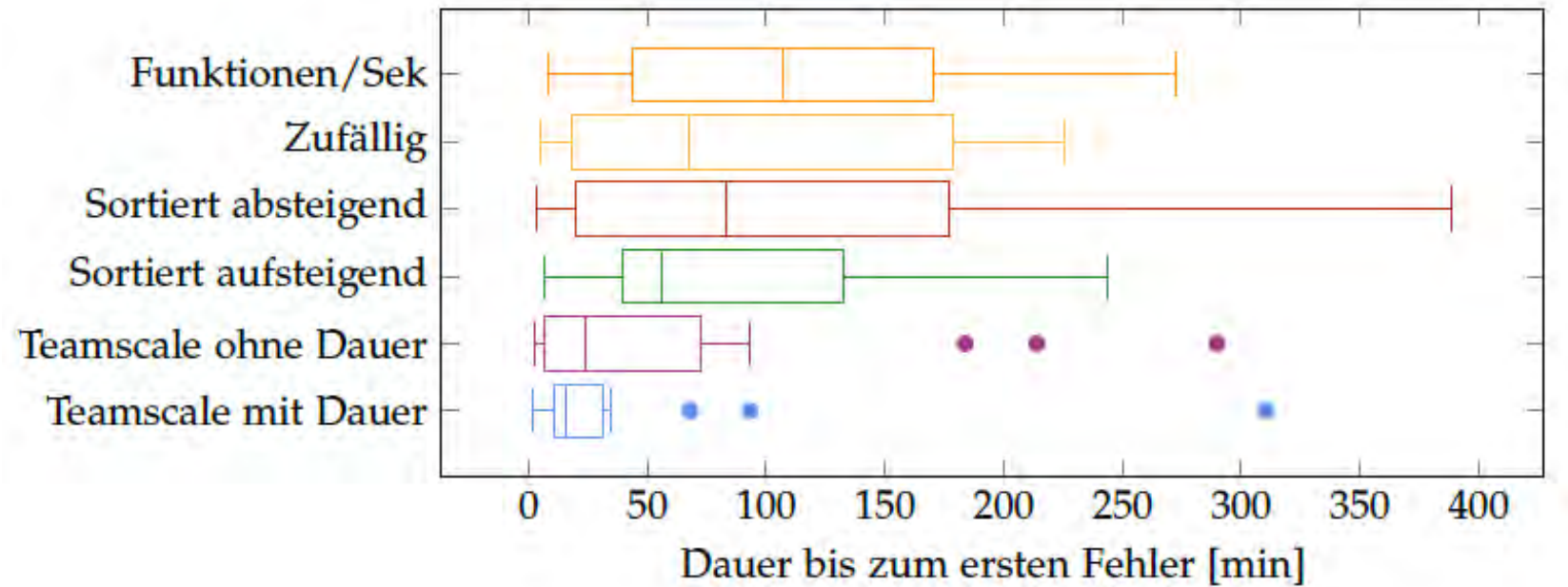
PROZENTUALER ANTEIL ERKANNTER FEHLERHAFTER
SYSTEMVERSIONEN NACH ANTEIL TESTZEIT

Studienobjekt	1%	2%	5%	10%
Apache Commons Collections	84,25	96,58	99,83	100,00
Apache Commons Lang	94,23	96,43	98,49	99,31
Apache Commons Math	80,20	85,92	91,55	92,96
Histone Template Engine 2	88,46	88,46	88,46	88,46
JabRef	95,71	95,71	95,71	95,71
Joda-Time	98,10	98,61	99,11	99,87
Lightweight-Stream-API	60,76	90,73	94,74	97,25
LittleProxy	74,29	77,14	80,00	80,00
OkHttp	90,70	90,70	90,70	96,51
RxJava	91,89	94,59	94,59	94,59
Symia Commons Math Parser	78,46	86,15	89,23	89,23
Teamscale	91,86	95,93	96,57	96,57



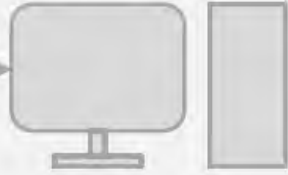


<https://www.technica-engineering.de/produkte/bts-body-electronic-test-system/>

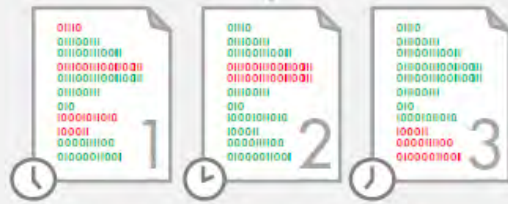




Alle Tests



Testumgebung



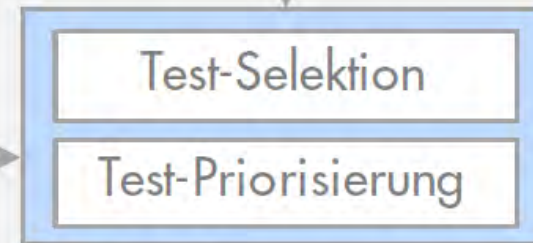
Testfallspezifische
Coverage und Laufzeiten



Versionskontrollsystem



Änderungen

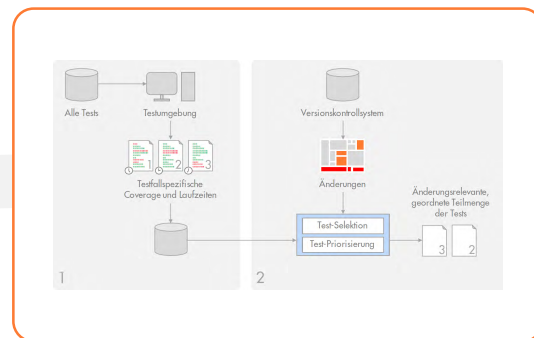


Änderungsrelevante,
geordnete Teilmenge
der Tests



1

2





**Test
Intelligence**

A central white rectangular box with an orange border, containing the text "Test Intelligence".



Änderungen



Test-Gap-Analyse

Ausführung



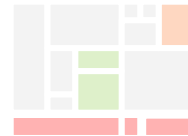
Ungetestete
Änderungen

Änderungen



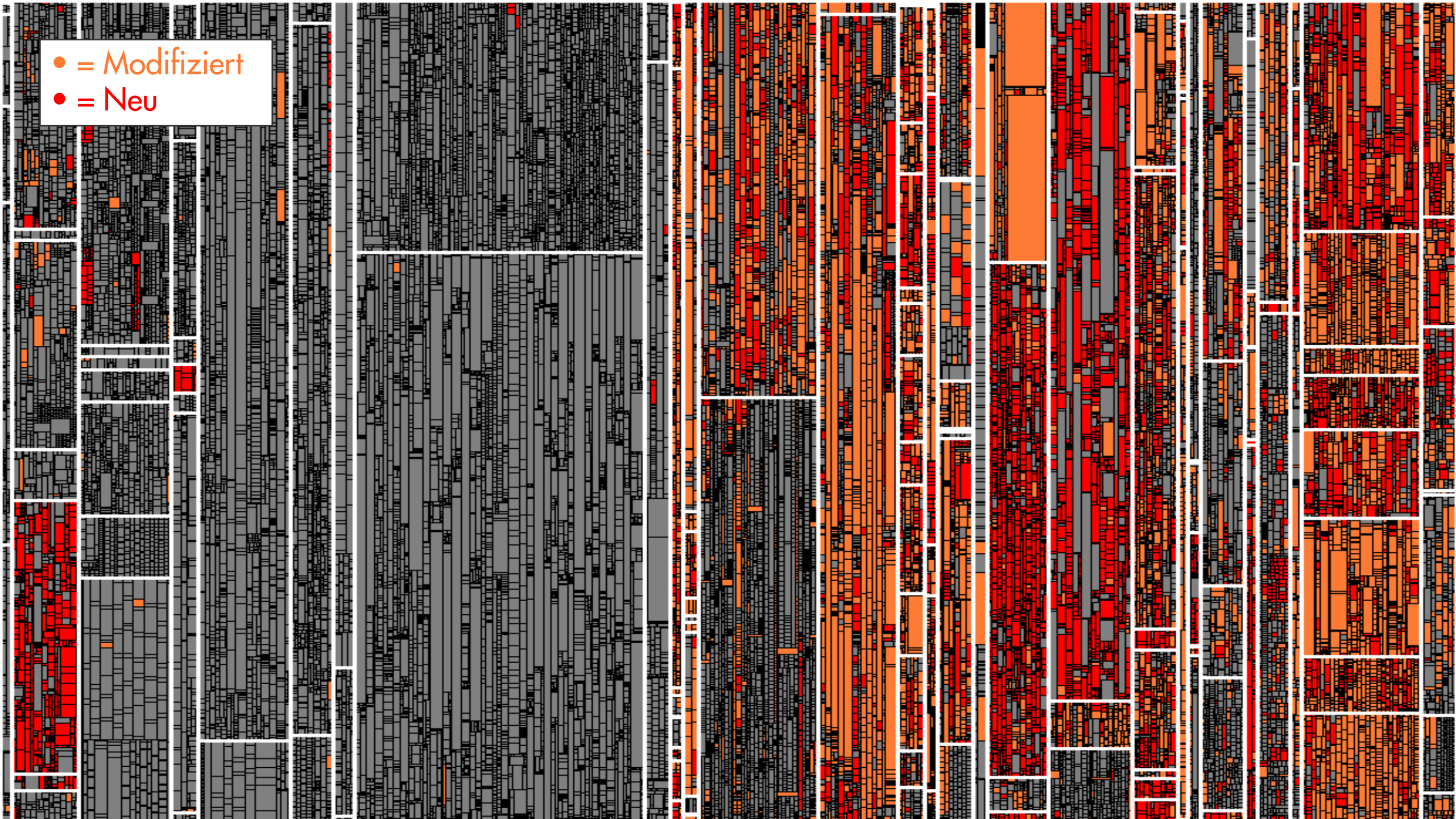
Test-Gap-Analyse

Ausführung

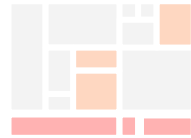


Ungetestete
Änderungen

- = Modifiziert
- = Neu

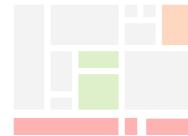


Änderungen



Test-Gap-Analyse

Ausführung

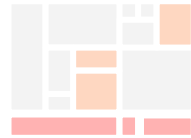


Ungetestete
Änderungen

• = Ausgeführt im Test

Manuelle &
automatisierte Tests

Änderungen



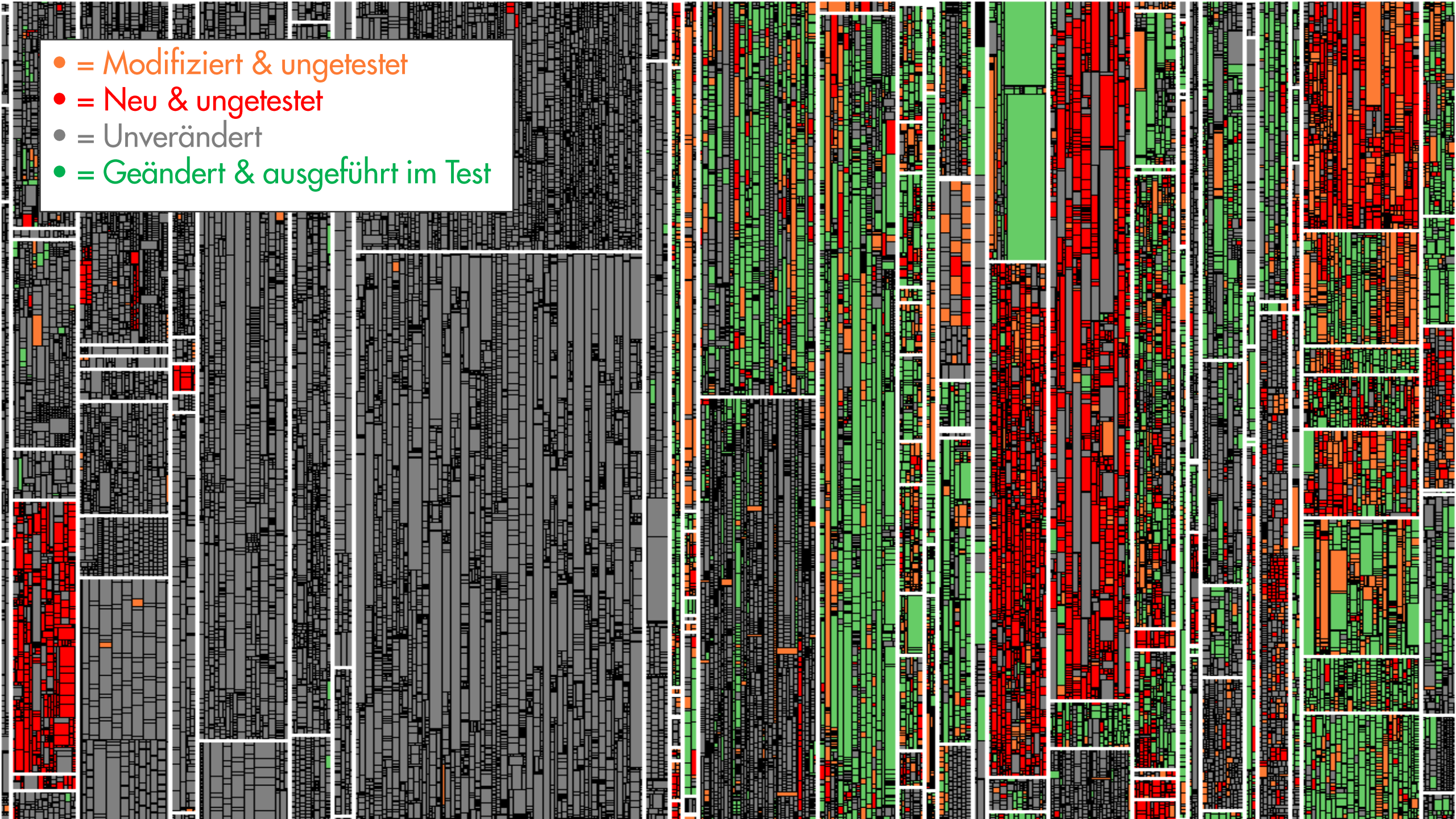
Test-Gap-Analyse

Ausführung



Ungetestete
Änderungen

- = Modifiziert & ungetestet
- = Neu & ungetestet
- = Unverändert
- = Geändert & ausgeführt im Test



Änderungen

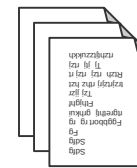
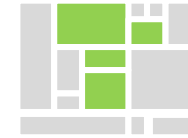


Test-Gap-Analyse

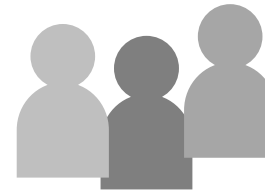


Ungetestete
Änderungen

Ausführung

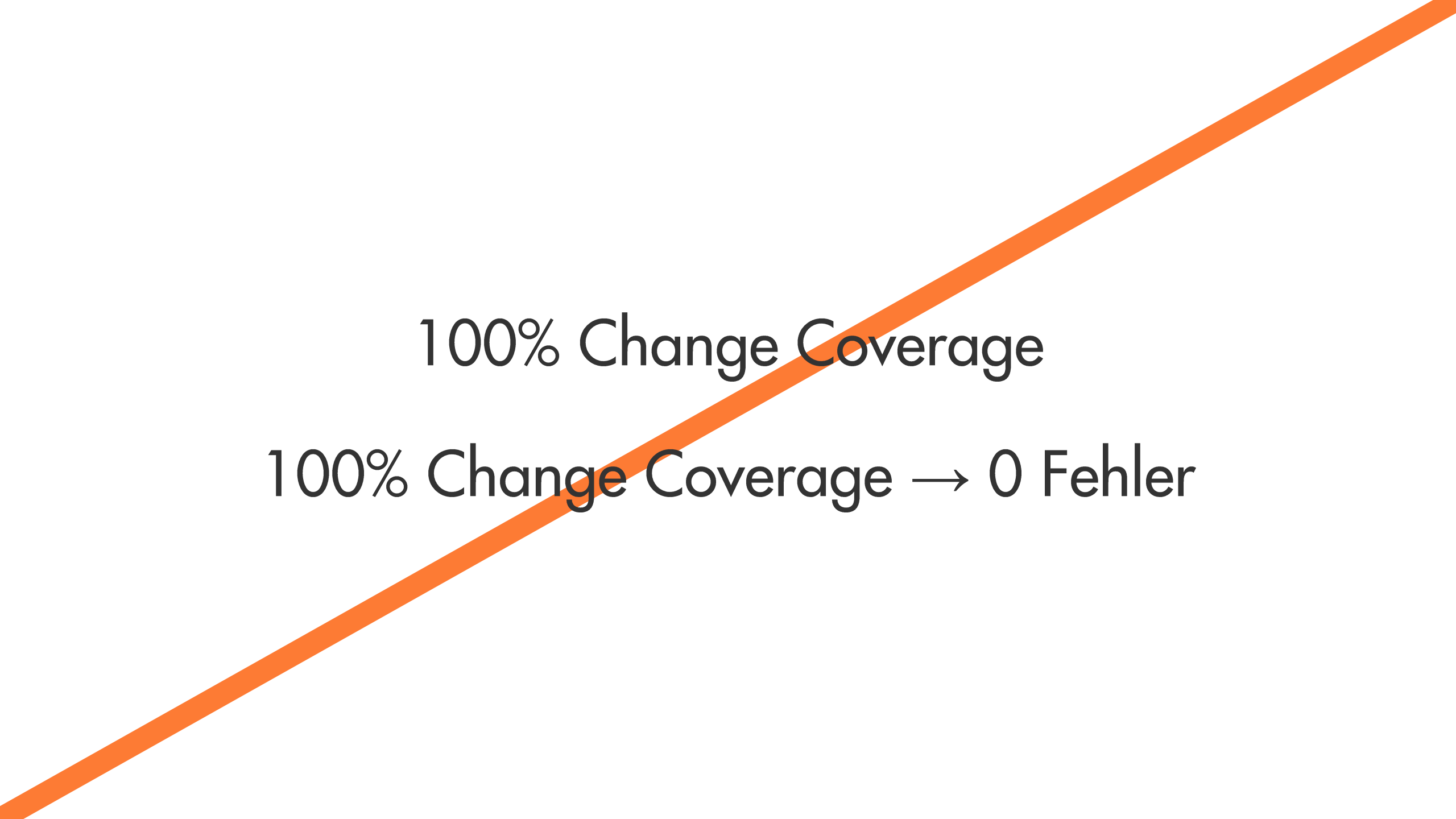


Testfälle



Entwickler, Tester, Testmanager

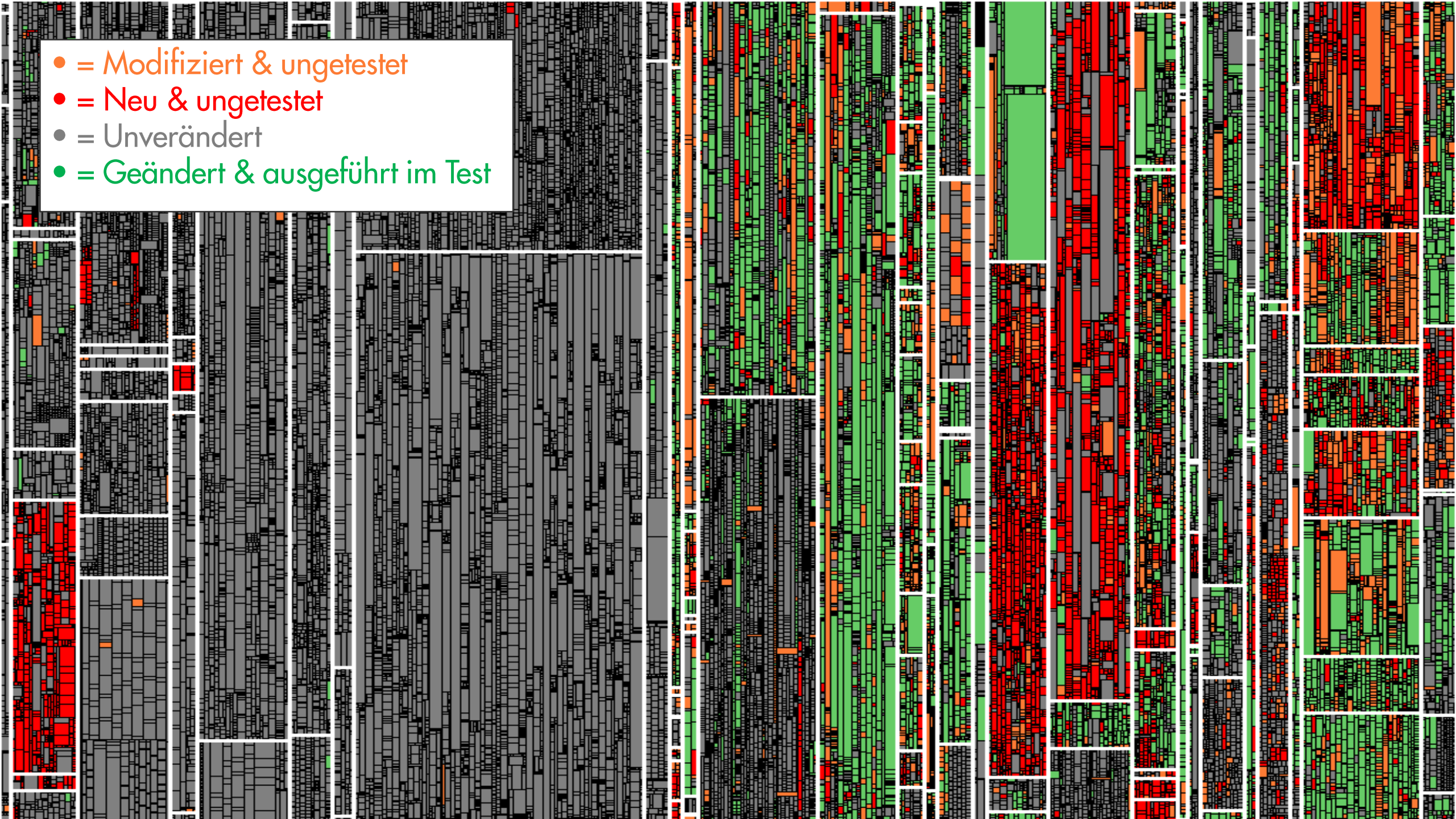




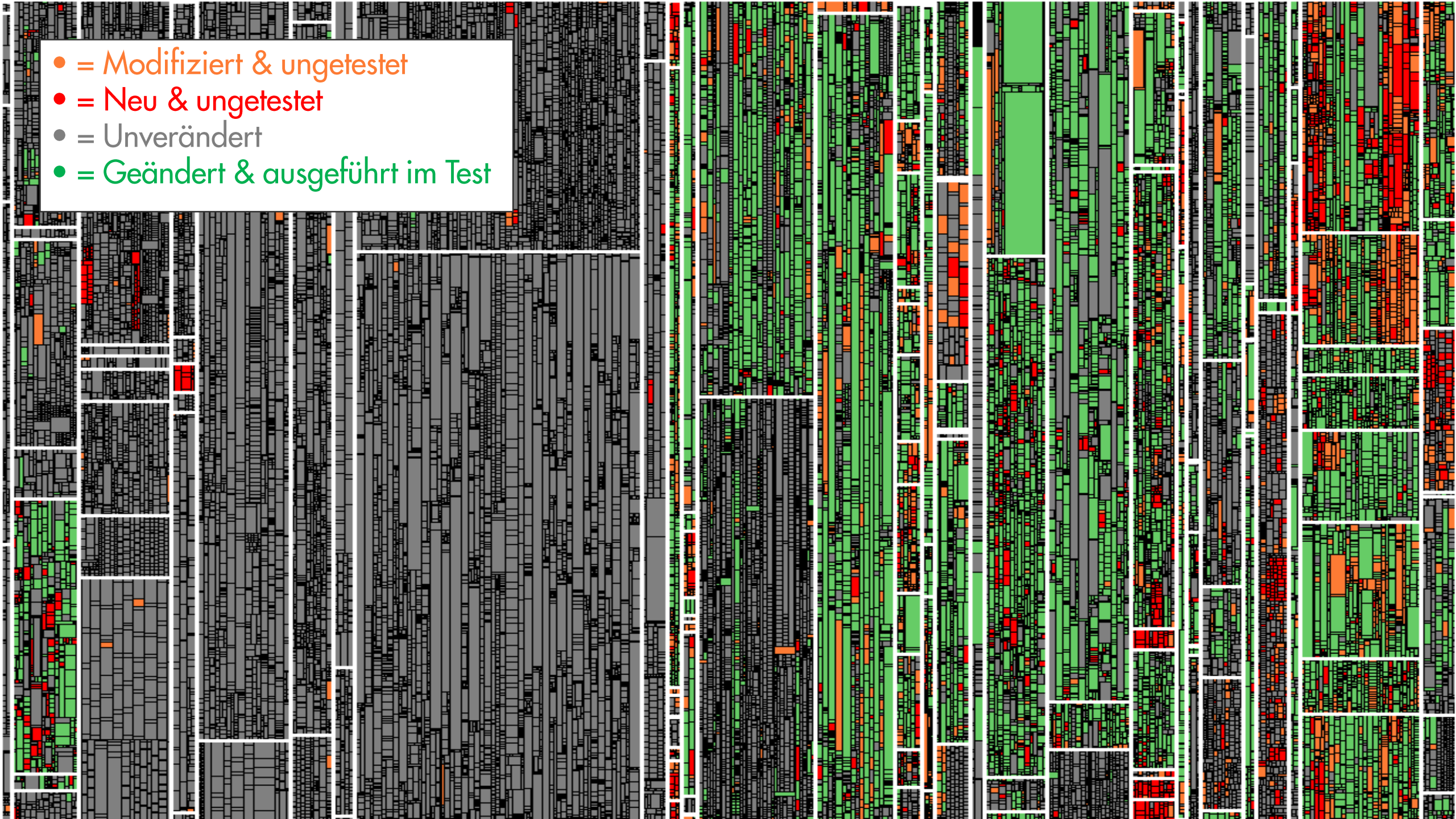
100% Change Coverage

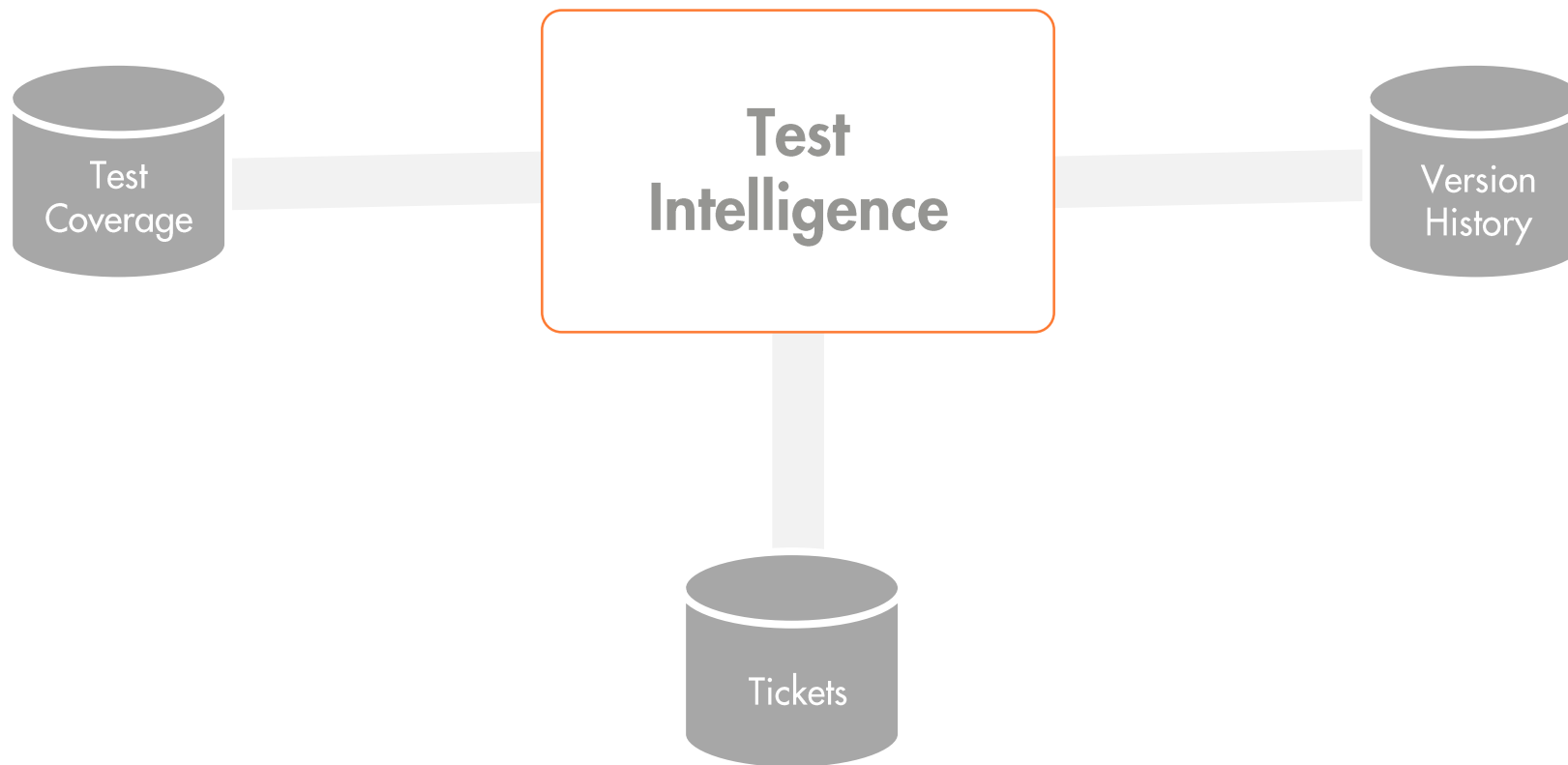
100% Change Coverage → 0 Fehler

- = Modifiziert & ungetestet
- = Neu & ungetestet
- = Unverändert
- = Geändert & ausgeführt im Test



- = Modifiziert & ungetestet
- = Neu & ungetestet
- = Unverändert
- = Geändert & ausgeführt im Test





Issue #	Subject	Ticket Coverage
TS-13689	Undo/Redo for web-based architecture editor	70%
TS-13701	Implement metric 'Nesting Depth' for Simulink	35%
TS-13704	Fix long method finding in TaintAnalysisRunner	100%
TS-13714	External findings are not registered during first upload	100%
TS-13727	Manual test coverage upload during development	100%
TS-13731	Tool for transferring Finding Blacklists and Tasks (w/ Findings) between instances	100%
TS-13734	Cannot set/alter alias without reanalysis	100%
TS-13735	Fetch parent relationship of TFS Work Items	100%
TS-13742	Show data timestamp in project analysis warning	100%
TS-13766	Get rid of ESLintFindingsSynchronizer and TSLintFindingsSynchronizer blocks	76%
TS-13769	Show summary row in test perspective > issue view	0%
TS-13772	Get rid of TestGapSynchronizer block	100%
TS-13775	Remove Dataflow Blocks	67%
TS-13778	Remove structuring block	100%
TS-13779	Get rid of Bootstrap Wells	100%

Done **Issue TS-15286 - Allow upload of backups to S3 storage**

Creator:  Andreas Sewe (on May 23 2018 16:00)

Last update: May 29 2018 15:54

Parent: Issue TS-14733

Assignee:  Andreas Sewe

project	Type	Priority	Resolution	Fix Version	Component
TS	Feature	Normal	Green	Teamscale 4.3	Backend
Affected Version	Customer	Customer Issue	Epic Name	Freshdesk URL	
Merge Request			PDash Task	QA-Contact	
https://git.cqse.eu/cqse/teamscale/merge_requests/2963/				kinnen	

Description

This is part of TS-14733. Initial goal for 4.3 (as the feature freeze is soon) is to support special `{{s3:}}` URI as *Path to backup.zip*.

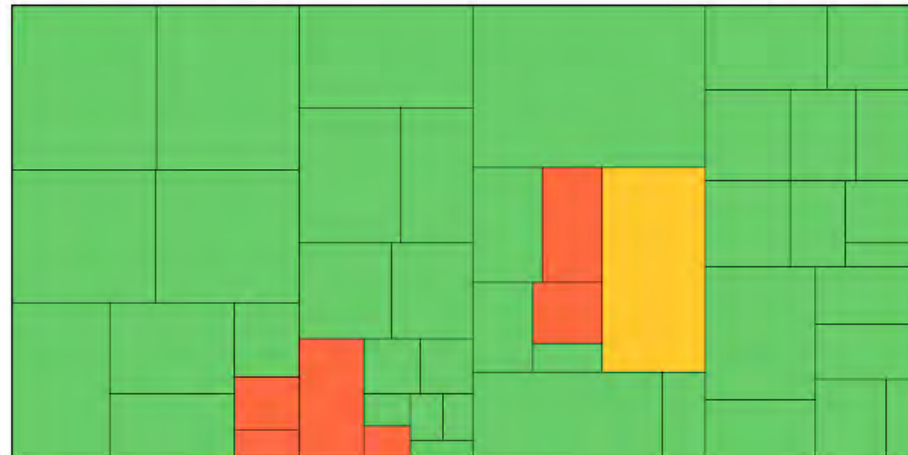
Credentials can be stored either in the URI or (if possible) under *Admin > Settings > System Accounts*.

🔗 Affected files (15)

🔗 Test Gap Treemap

[May 28 2018 13:40-now](#) | Test Gap: 14.89%

Coverage sources: **All**



Associated repository changes (7)



Merge branch 'cr/15286_allow_backups_to_s3' into 'master'
CR#15286 Allow upl...
by Thomas Kinnen in revision 23d333c8  in branch master (Gitlab)
Merged from cr/15286_allow_backups_to_s3 
Files: 7 added, 3 changed, 1 deleted
Findings: 

May 29 2018
15:54

Kontakt



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85748 Garching bei München
www.cqse.eu

