



OpenStreetMap -Testdaten

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Problem

Software-Entwickler
brauchen
OSM-Test-Daten,
um ihre Software zu testen.

Bisher

Jeder muss Testdaten selbst erstellen.

Jeder nutzt andere Tests.

Es gibt viel zu wenige Test.

Lösung

Gemeinsame Sammlung
mit OSM-Test-Daten

Diskussionsbedarf

Entwicklung
gemeinsamer Kriterien,
welche Daten
wie zu interpretieren sind.

Tests für...

Datenformate

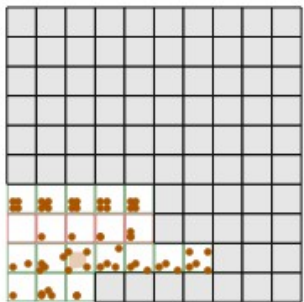
Attribute

Geometrien

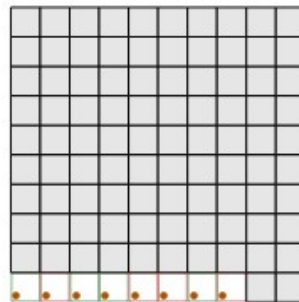
Tag-Interpretation

Geographische Anordnung

1. Basic Geometry Tests



3. Attribute Tests

























































7. Multipolygon Geometry Tests

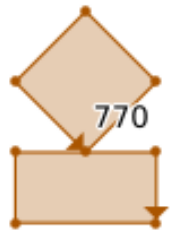


(Spatialite-Dateien, Visualisierung hier mit QGIS)

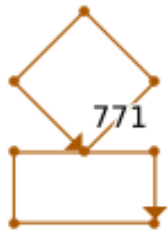
7. Multipolygon Geometry Tests

790	791	792	793	794	795	796	797	798	799
780	781	782	783	784	785	786	787	788	789
				774	775	776	777	778	779
								768	769
									
							747	748	749
			733	734	735	736	737	738	739
									
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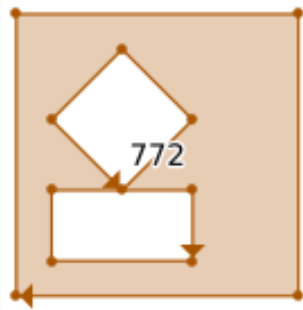
overlapping polygons



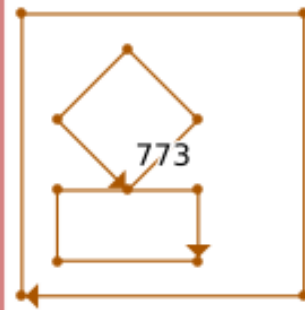
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771



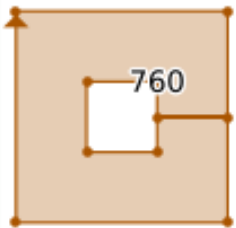
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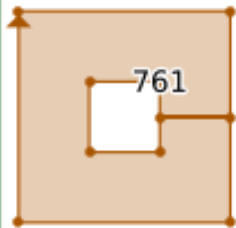
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774

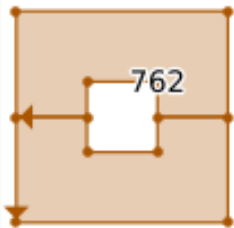
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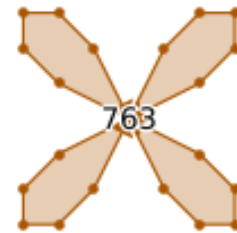
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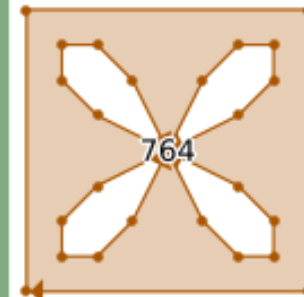
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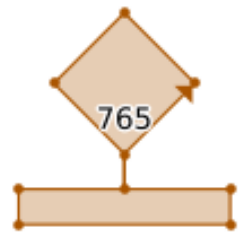
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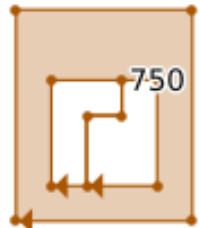
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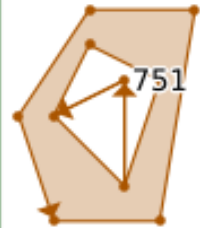
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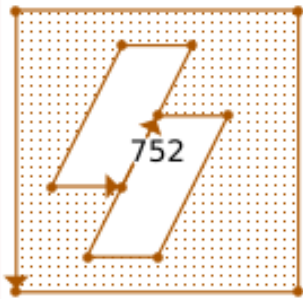
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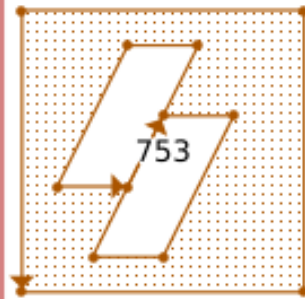
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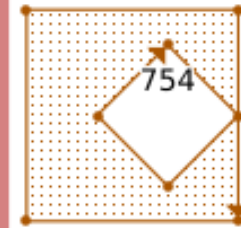
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752



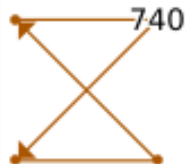
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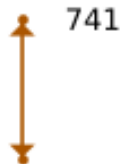
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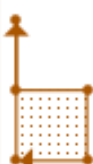
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740



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742



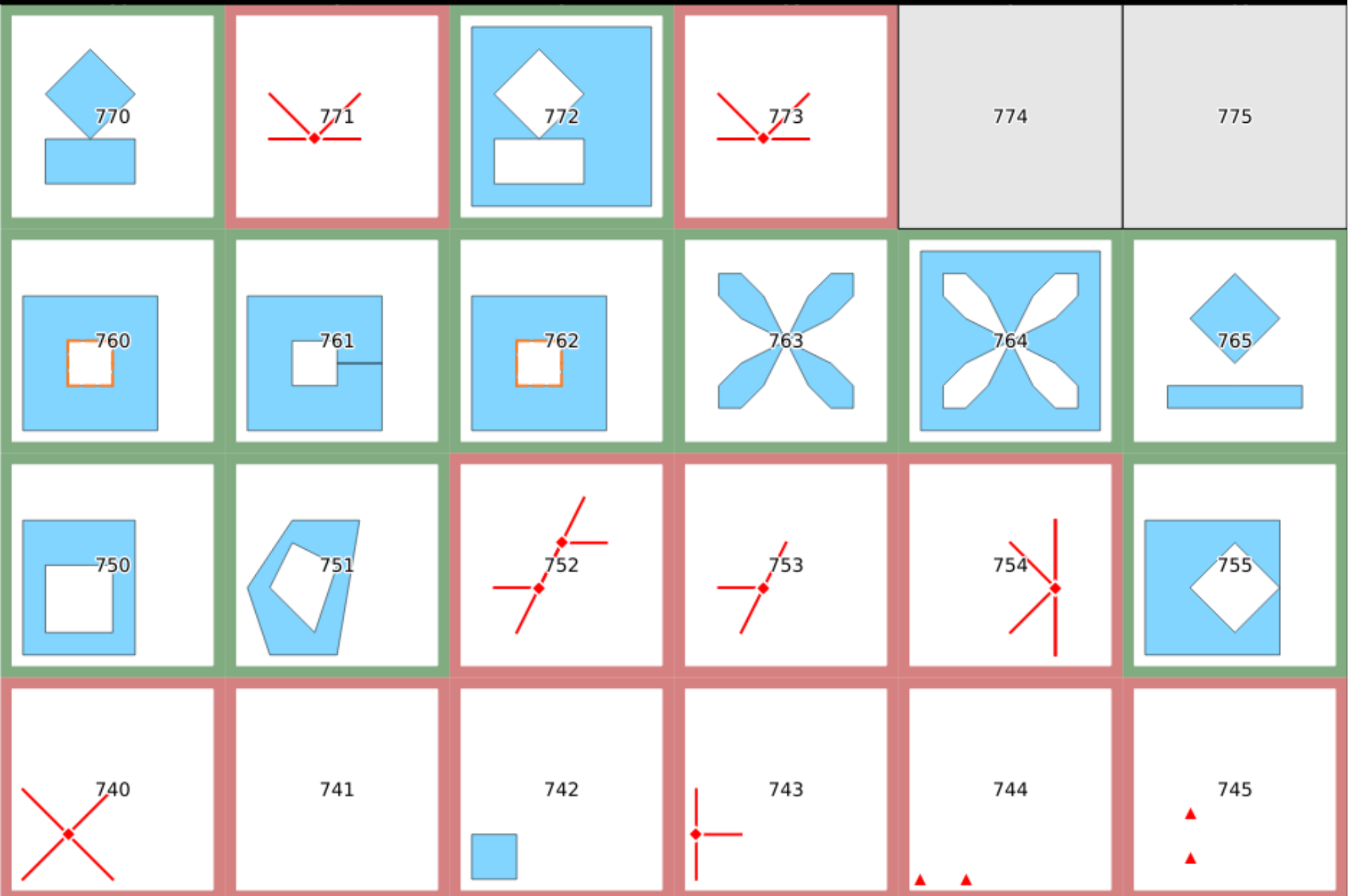
743



744



745



Automatisierte Checks

```
752900... OK [default: both INVALID => OK] [fix: should not be INVALID => ERR]
753900... OK [default: both INVALID => OK] [fix: should not be INVALID => ERR]
754900... OK [default: both INVALID => OK] [fix: should not be INVALID => ERR]
755900... OK [default: geoms equal => OK]
756900... OK [default: both INVALID => OK] [fix: should not be INVALID => ERR]
757900... OK [default: should be INVALID => ERR] [fix: geoms equal => OK]
758900... OK [default: geoms equal => OK]
759900... OK [default: geoms equal => OK]
760900... OK [default: geoms equal => OK]
761800... ERR [default: test geometry is invalid => ERR]
762900... OK [default: geoms equal => OK]
763900... OK [default: geoms equal => OK]
764900... OK [default: geoms equal => OK]
765900... OK [default: geoms equal => OK]
766900... OK [default: geoms equal => OK]
767800... OK [default: geoms identical => OK]
770900... OK [default: geoms equal => OK]
771900... OK [default: both INVALID => OK]
772900... OK [default: geoms equal => OK]
773900... OK [default: both INVALID => OK]
900900... OK [default: geoms equal => OK]
901900... OK [default: geoms equal => OK]
902900... OK [default: geoms equal => OK]
903900... OK [default: geoms equal => OK]
904900... OK [default: geoms equal => OK]
905900... OK [default: geoms equal => OK]
```

Test Case besteht aus:

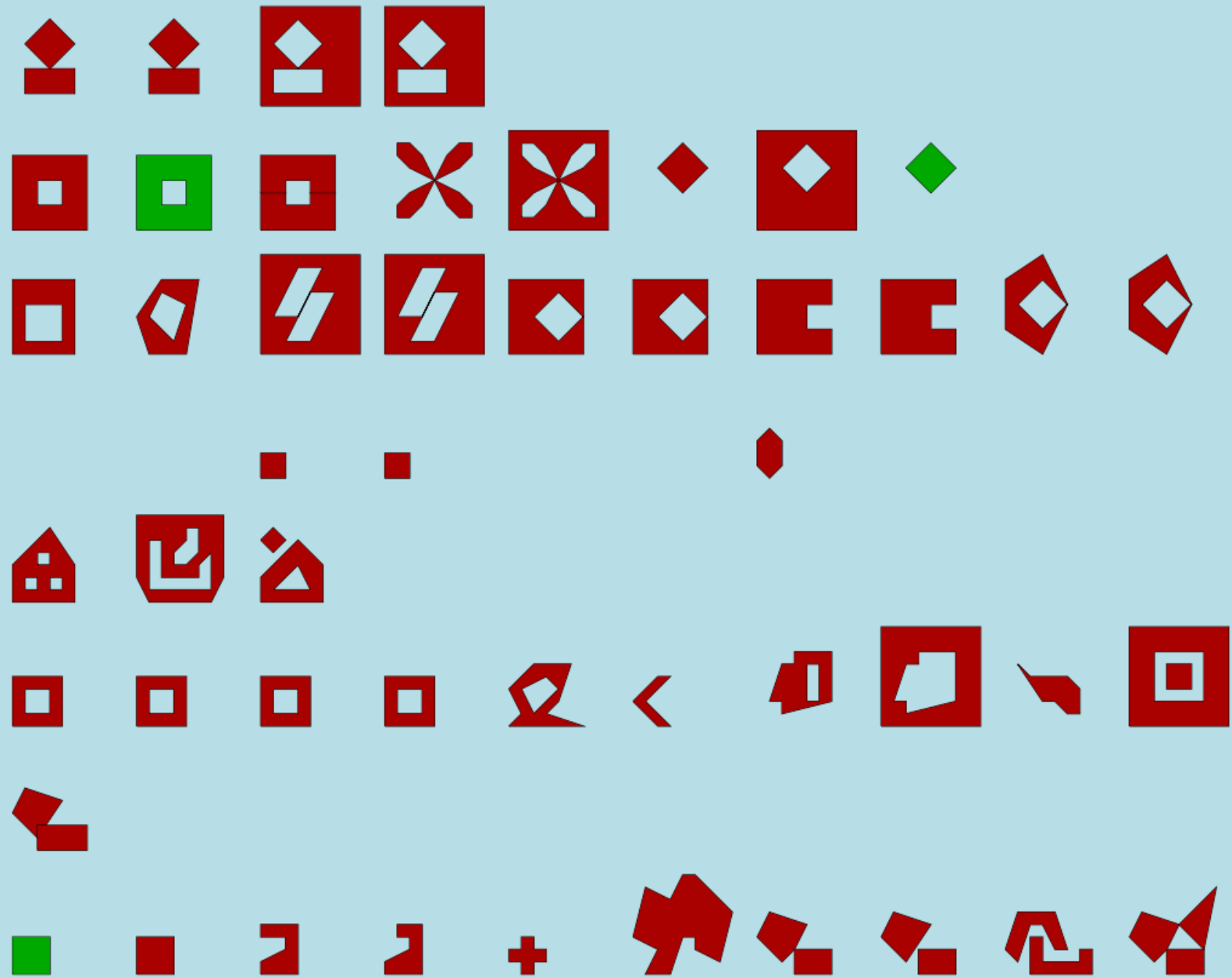
OSM-Datei mit Test-Daten

Referenz-Geometrien

Beschreibung

gültig/ungültig

Testcases in osm2pgsql



Wie geht's weiter?

Andere Software?

Strukturierung der Tests?

Mehr Tests

The End

<https://github.com/osmcode/osm-testdata>

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