



Jochen Topf

OpenStreetMap -Testdaten

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

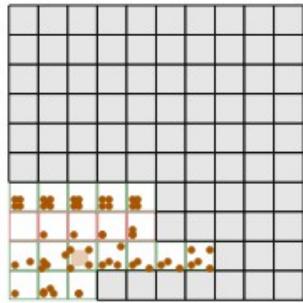
Entwicklung
gemeinsamer Kriterien,
welche Daten
wie zu interpretieren sind.

Tests für...

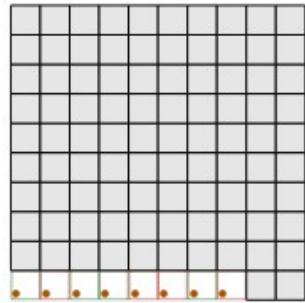
Datenformate
Attribute
Geometrien
Tag-Interpretation

Geographische Anordnung

1. Basic Geometry Tests



3. Attribute Tests



7. Multipolygon Geometry Tests

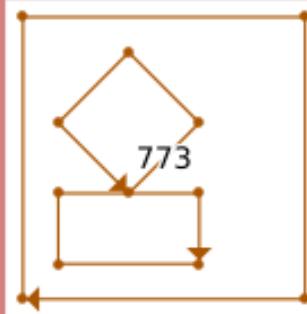
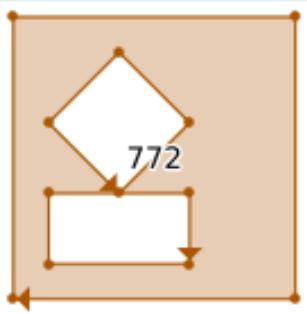
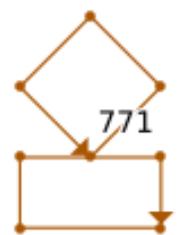
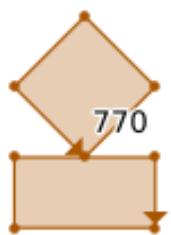


(Spatialite-Dateien, Visualisierung hier mit QGIS)

7. Multipolygon Geometry Tests

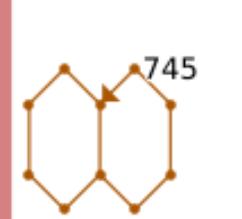
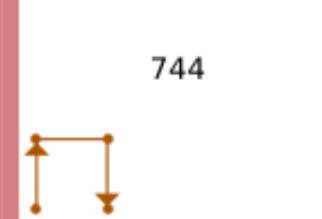
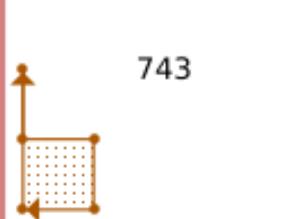
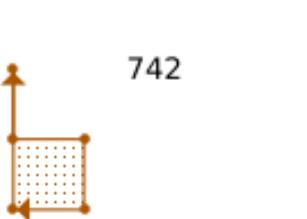
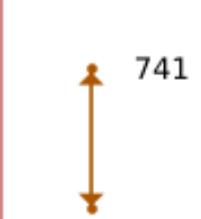
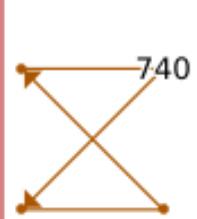
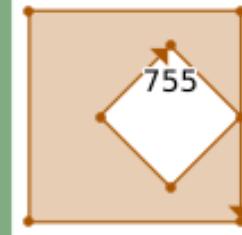
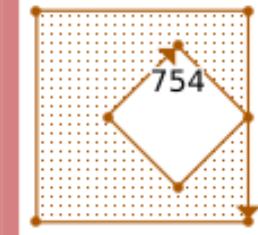
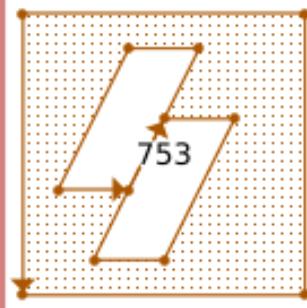
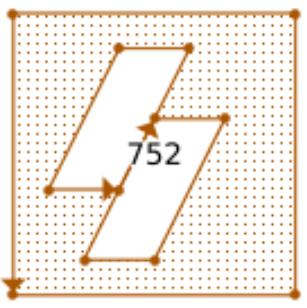
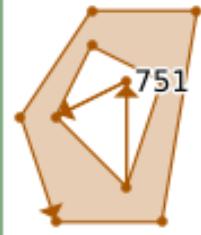
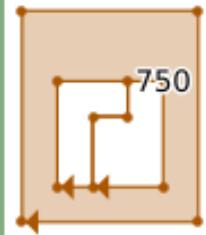
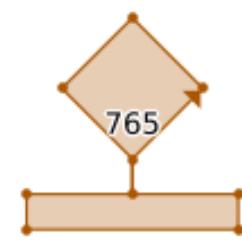
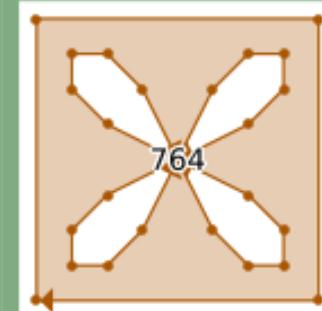
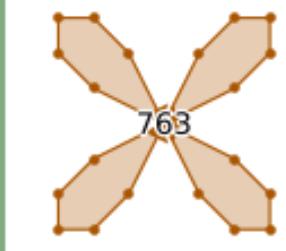
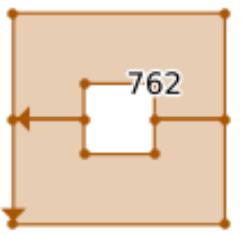
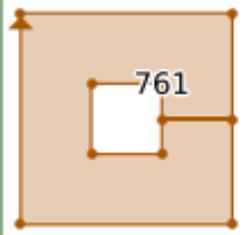
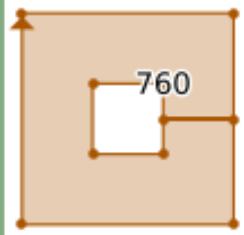
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								768	769
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			733	734	735	736	737	738	739
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700	701								

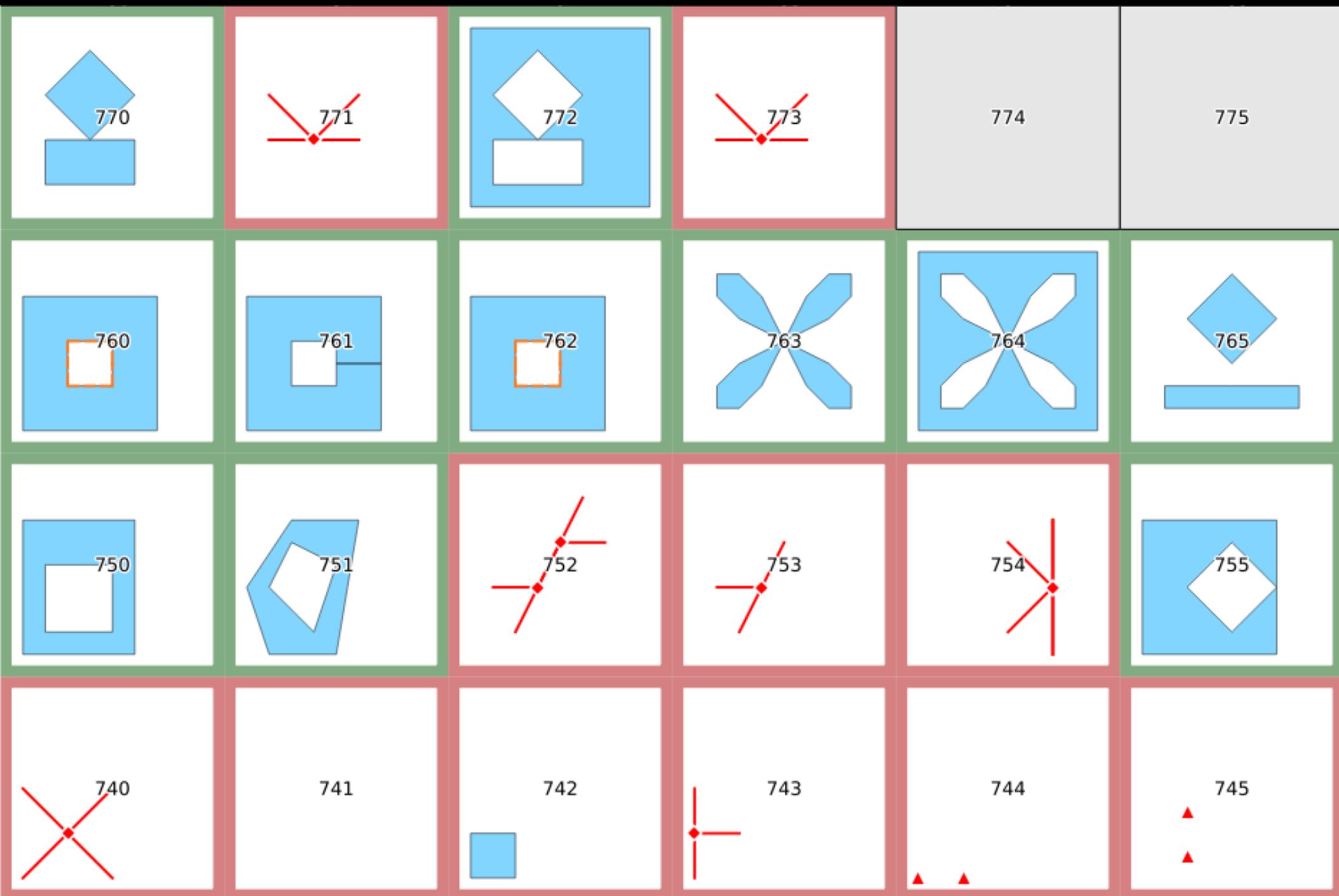
overlapping polygons



774

775





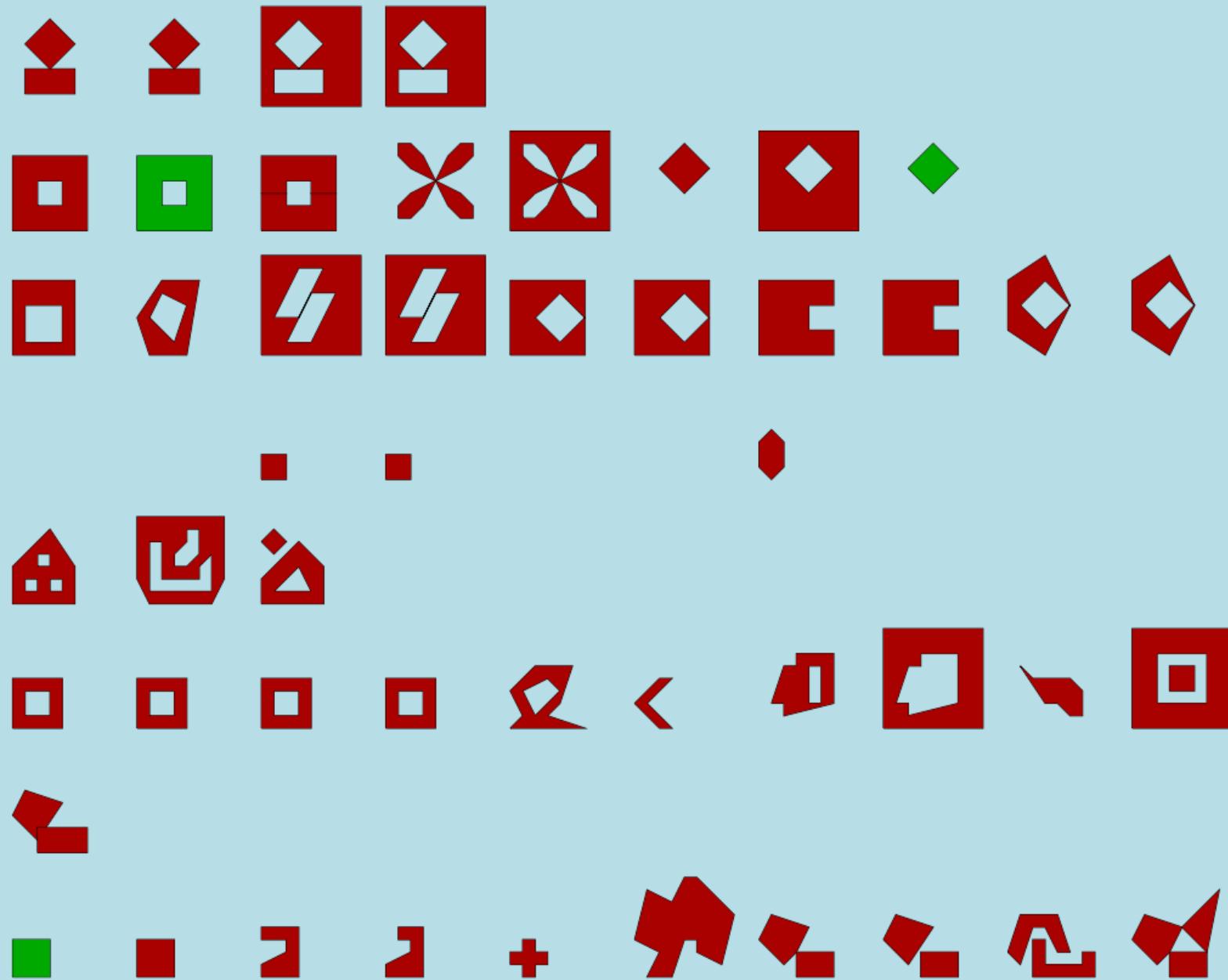
Automatisierte Checks

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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]
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765900... OK [default: geoms equal => OK]
766900... OK [default: geoms equal => OK]
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903900... OK [default: geoms equal => OK]
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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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