SIG 3D



FOSS4G FR 2014 - Paris



E-PLU Project









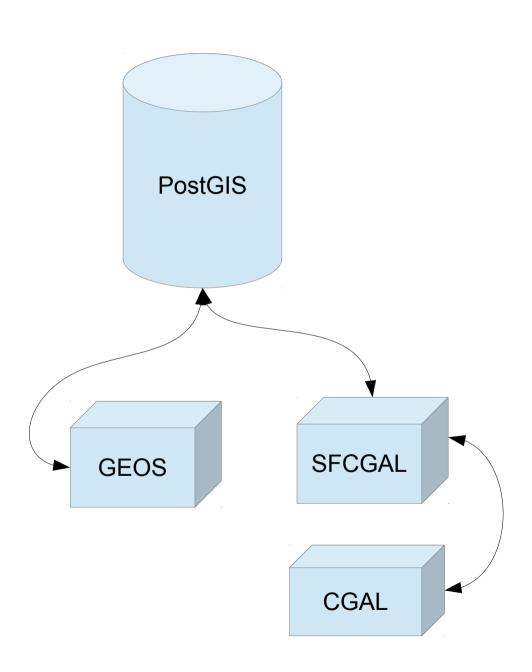






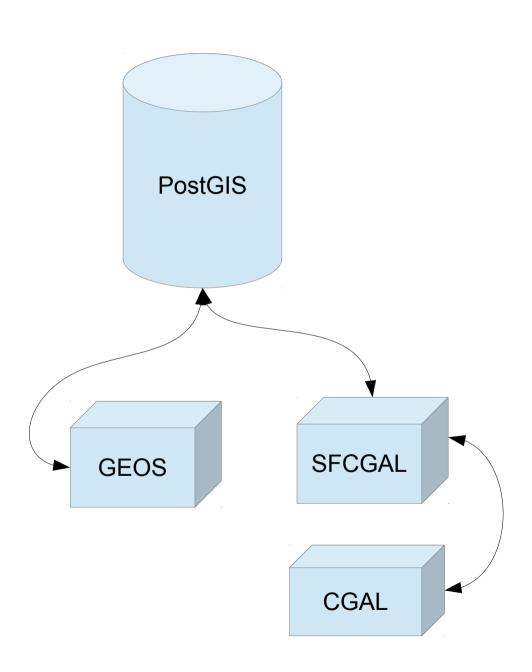








CGAL



ST_3DIntersection

ST Tesselate

ST 3DArea

ST_Extrude

ST_ForceLHR

ST Orientation

ST_MinkowskiSum

ST_StraightSkeleton

SFCGAL functions

ST 3DIntersection

ST Tesselate

ST_3DArea

ST_Extrude

ST_ForceLHR

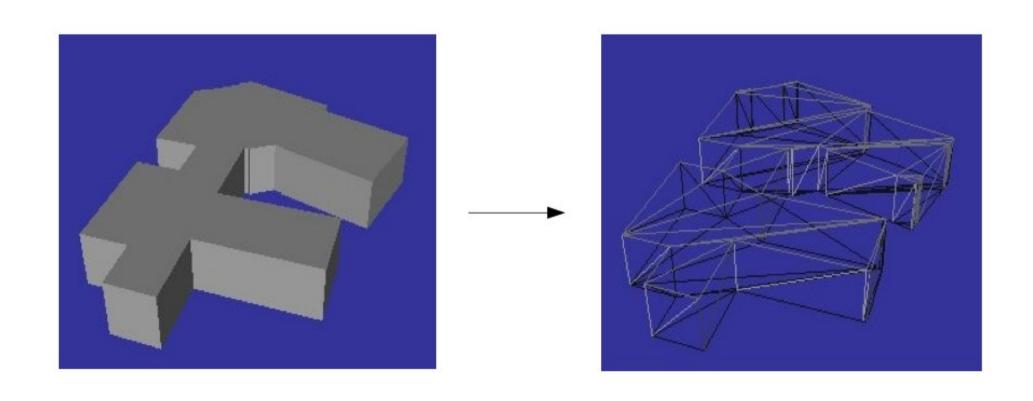
ST Orientation

ST_MinkowskiSum

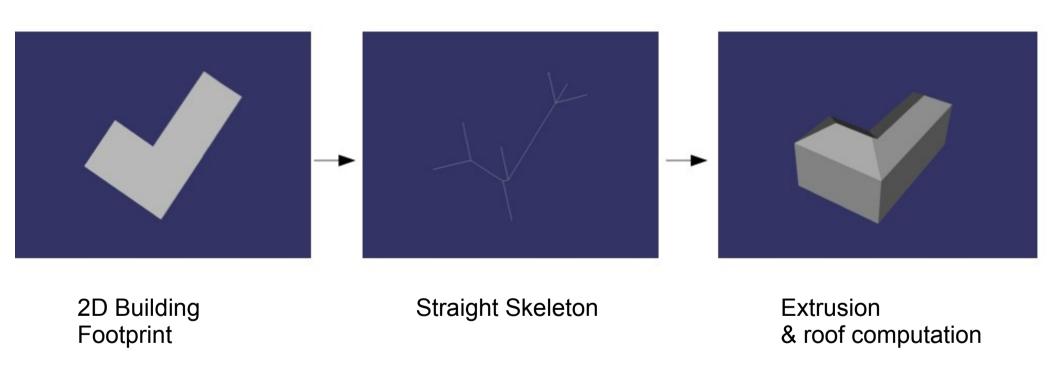
ST_StraightSkeleton

SFCGAL functions

ST_Tesselate



ST_StraightSkeleton



ST_Intersects

ST_3DIntersects

ST_Intersection

ST Area

ST_Distance

ST_3DDistance

Both GEOS & SFCGAL

SET postgis.backend = 'geos';

SET postgis.backend = 'sfcgal';

Tests de regression PostGIS OK

GardenTest PostGIS OK

Géométries 3D invalides OK

Large communauté en cours

Performances SFCGAL similaires à celles de GEOS pour la 2D (avec le gain de la précision arbitraire)

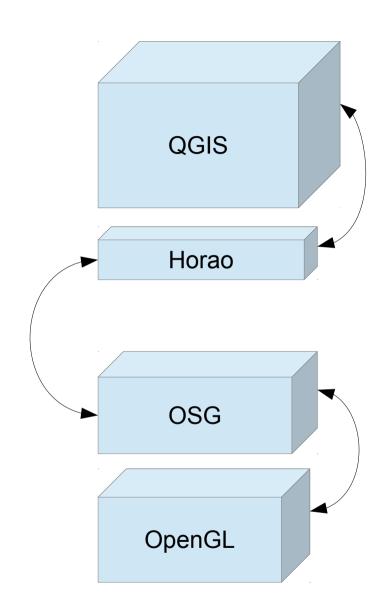
Performances SFCGAL similaires à celles de GEOS pour la 2D (avec le gain de la précision arbitraire)

Mais certains traitements 3D peuvent prendre du temps

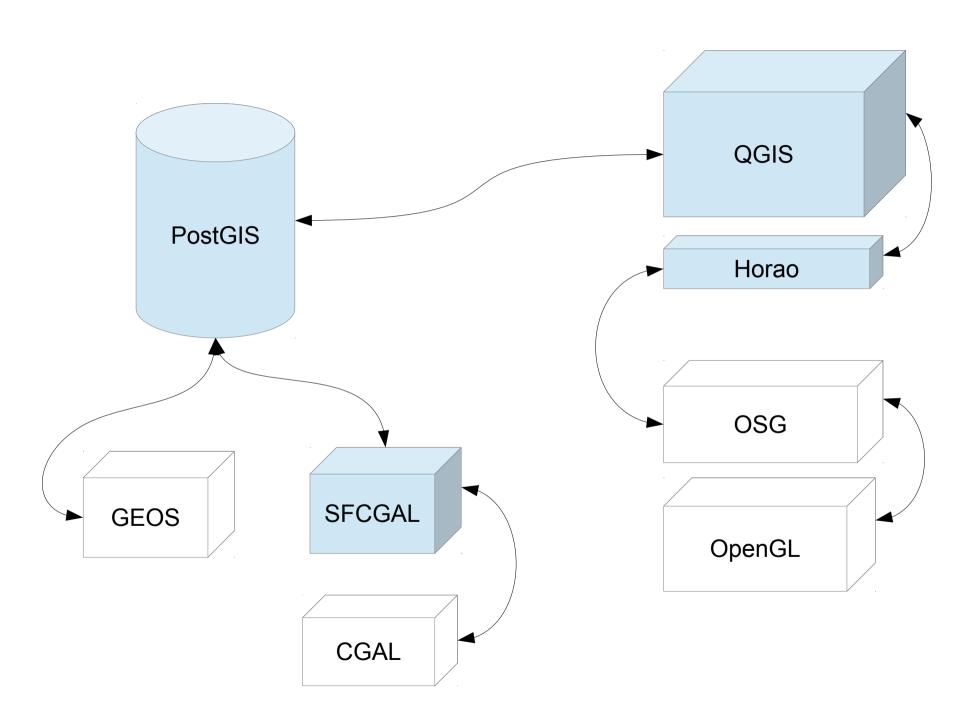
ISO 19107:2013

ISO 19125:2013

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https://vimeo.com/74869530



PostGIS www.postgis.org

SFCGAL www.sfcgal.org

Horao www.horao.net

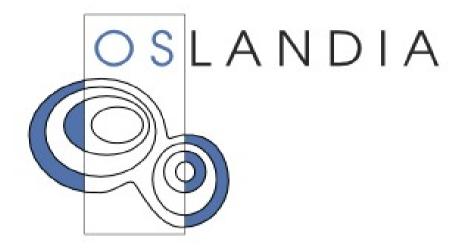
QGIS www.qgis.org

2010 2013 2015

9:DIM 3D

WebGL

Textures



www.oslandia.com

https://github.com/Oslandia/presentations

https://github.com/Oslandia/Workshops