
FRA BRUKER TIL BIDRAGSYTER

Robert Nordan, Mats Taraldsvik, Rune
Aasgaard

NORKART

SAMMENDRAG

- Norkarts historie med Open Source
- Hva vi gjør i dag
- Hvorfor vi gjør det
- Hvordan vi gjør det
- Gevinster og utfordringer

I BEGYNNELSEN VAR VERKTØYET

- Fri programvare der det passet seg (Emacs, Vim, cURL...)
- Biblioteker med snille lisenser (libPNG/TIFF/JPEG)
- Ingen bevisst strategi

OG VERKTØYET VAR GODT

- Fri programvare festet grepet i teknologiverdenen
- Norkarts første patcher gikk upstream i ca. 2005

OG LEDELSEN SA; LA DET BLI OPEN SOURCE

- Mars 2008: Seminar om bruk av fri programvare (Kartverket/NGIS)
- Norkart satte i gang prosjekt «Utrede Open Source-muligheter»
- Førte til konkrete endringer
 - Mer Linux på serversiden
 - Geoserver, PostGIS, Openlayers i produksjon
- Vår første open sourcing i 2009 (Globe-klienten)

I DAG HOS NORKART

- Integrerer OSS i våre produkter
- Bidrar tilbake i relevante prosjekter
- Slipper kode når det passer
- Bruker Github for fri kode



HVORFOR VI BIDRAR

- Styrke økosystem
- Slipper å vedlikeholde selv
- «Gratis merarbeid»
- Bygger relasjoner
- Gjør oss og vår kompetanse synlige
- Gjør utviklerne våre glade

HVORDAN GÅR MAN FREM?

1. Forberedelse

- Finne kommunikasjonskanal
- Legge inn et ønske om funksjonalitet eller en feil
- Tilby å skrive koden selv (lage en patch)

2. Utvikling

- Skrive selve koden
- Følge prosjektets krav til kode, dokumentasjon, tester

3. Etterarbeid

- Sende inn bidrag

4. ...

5. Profit!

FORBEREDELSE

Mailing Lists

- [geos-devel] [Subscribe/Unsubscribe](#) | [List Archive](#)
- [geos-commits] [Subscribe/Unsubscribe](#) | [List Archive](#)



GEOS Geometry Engine Open Source

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[Wiki](#) | [Timeline](#) | [Roadmap](#) | [Browse Source](#) | [View Tickets](#)

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GEOS - Geometry Engine, Open Source

GEOS (Geometry Engine - Open Source) is a C++ port of the [Java Topology Suite \(JTS\)](#). As such, it aims to contain the complete functionality of JTS. This includes all the [OpenGIS Simple Features for SQL](#) spatial predicate functions and spatial operators, as well as specific JTS enhanced topology functions. GEOS is available under the terms of [GNU Lesser General Public License \(LGPL\)](#), and is a project of [OSGeo](#).

Capabilities Include

- Geometries: Point, LineString, Polygon, MultiPoint, MultiLineString, MultiPolygon, GeometryCollection
- Predicates: Intersects, Touches, Disjoint, Crosses, Within, Contains, Overlaps, Equals, Covers
- Operations: Union, Distance, Intersection, Symmetric Difference, Convex Hull, Envelope, Buffer, Simplify, Polygon Assembly, Valid, Area, Length, Prepared geometries (pre-spatially indexed)
- STR spatial index
- OGC Well Known Text (WKT) and Well Known Binary (WKB) encoders and decoders.
- C and C++ API (C API gives long term ABI stability)
- Thread safe (using the reentrant API)

Download

- 2013/08/25 [geos-3.4.2.tar.bz2](#) ([Changes](#))
- 2013/02/28 [geos-3.3.8.tar.bz2](#) ([Changes](#))
- 2011/09/21 [geos-3.2.3.tar.bz2](#) ([Changes](#))
- 2009/06/15 [geos-3.1.1.tar.bz2](#) ([Changes](#))
- [Older versions...](#)
- Nightly snapshot: <http://geos.osgeo.org/snapshots/>

Build and Install

Source

- Building on Unix with Autotools
- Building on Unix with CMake
- Building on MINGW64 with CMake
- Building on Windows with NMake
- Building on Windows with CMake

Binaries

- Windows binaries:
 - As part of [OSGeo4W](#) as part of the [geos](#) package.
- Linux distributions provide packages with GEOS: [Debian](#), [Ubuntu](#), [Fedora](#), [Gentoo](#), [openSUSE](#) and other
- [PostgreSQL RPM Repository](#) has up2date GEOS (and other GIS related components) packages.
- Binaries /Packages with GEOS for other Unix systems:
 - [GEOS Framework](#) for [Mac OS X 10.5+](#) provided by William Kyngesburye. Big thanks to William!
 - [Fink](#) for Mac OS X
 - [MacPorts](#) for Mac OS X
 - [Homebrew](#) package manager for Mac OS X
 - [GEOS ports](#) for [FreeBSD](#)
 - [GEOS pkgsrc](#) packages for NetBSD and other UNIX-like systems including [including Solaris](#), [OpenBSD](#), [FreeBSD](#), [OpenBSD](#), [Linux](#), [Darwin](#)

Development

Bug Reporting

You will need an [OSGeo user account](#) to submit bugs here. A "New Ticket" button will appear once you have [logged in](#).

When [submitting bugs](#) caused by particular geometries ([TopologyExceptions](#), for example), you must submit the geometries that cause the failure, in [hex-encoded WKB](#), so that we can re-produce the failure cases.

Mailing Lists

- [geos-devel] [Subscribe/Unsubscribe](#) | [List Archive](#)
- [geos-commits] [Subscribe/Unsubscribe](#) | [List Archive](#)

Code Repository

- SVN Repository address: <http://svn.osgeo.org/geos/>

FORARBEID

Re: [geos-devel] Ability to preallocate the WKT stringstream buffer for really large geometries

Sandro Santilli <sandro.santilli@gmail.com> på vegne av Sandro Santilli <strk@keybit.net>

📧 Følg opp. Fullført 21. februar 2013.
Du svarte på meldingen 21.02.2013 10:22.
Ekstra linjeskift ble fjernet i denne meldingen.

Sendt: fr 08.02.2013 13:28

Til: Mats Taraldsvik

Kopi: GEOS Development List

On Fri, Feb 08, 2013 at 07:22:21AM +0000, Mats Taraldsvik wrote:

> Have you considered this issue? Do you accept patches to solve this by
> changing the interface (considering GEOS is a port of JTS and follows
> it closely)? :)

I'll be glad to review and apply any patch speeding up WKT writing.

I'm fine with providing an enhanced interface for 3.4.x series, as long as the old one remains for backward API compatibility.

If you start with that please consider taking a look at

<http://trac.osgeo.org/geos/ticket/355> and

<http://trac.osgeo.org/geos/ticket/310>

Please also make sure the testsuite covers enough cases.

Thank you !

--strk;

Ability to preallocate the WKT stringstream buffer for really large geometries?

Mats Taraldsvik

Sendt: fr 18.01.2013 12:53

Til: 'geos-devel@lists.osgeo.org'

Hi,

Generally, I'm very satisfied with the WKTWriter, which is really easy to use, and converts the Geometries to the WKT format. However, when converting _large_ geometries (in this case, contour lines), I get a major decrease in performance.

By looking at the source code (and profiling), I believe the use of a stringstream and hence a dynamically increasing string buffer, constantly reallocating, is causing the performance penalty. Possibly also copying the large string.

Is there anything I can do to improve this scenario? Do you accept contributions to fix this (e.g. passing in the expected size of the resulting WKT string)?

Regards

Mats Taraldsvik

mats.taraldsvik@norkart.no

Løkketangen 20A

Postboks 145

N- 1300 Sandvika

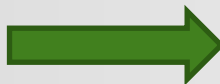
+47 67 55 14 00

norkart.no

FORBEREDELSE

Code Repository

- SVN Repository address: <http://svn.osgeo.org/geos/>
- Checkout with: `svn checkout http://svn.osgeo.org/geos/trunk geos-svn`
- Nightly snapshot: <http://geos.osgeo.org/snapshots/>
- GIT mirror (with svn metadata): <http://github.com/libgeos/libgeos>
- Clone with: `git clone git://github.com/libgeos/libgeos.git`



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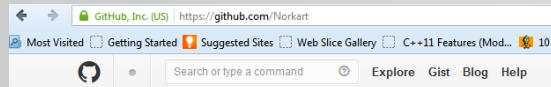
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- [\[geos-commits\]](#) [Subscribe/Unsubscribe](#) | [List Archive](#)

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Norkart

<http://www.norkart.no>

Joined on Nov 07, 2012

7 public repos 0 private repos 4 members

Repositories Members
Find a repository... Se

NK-VirtualGlobe
The Java client for Norkart Virtual Globe
Last updated 5 days ago

Android-Design-Poster
The Android Design Principles at a glance.
Last updated 7 days ago

Leaflet-MiniMap
A minimap control plugin for Leaflet
Last updated 12 days ago

android-betterpickers
forked from derekbrameyer/android-betterpickers
Android library for better Picker DialogFragments
Last updated 2 months ago

Leaflet
forked from Leaflet/Leaflet
Leaflet is an open-source JavaScript library for mobile-friendly interactive maps.
Last updated 3 months ago

libgeos
forked from libgeos/libgeos
Geometry Engine, Open Source

libgeos / libgeos

Geometry Engine, Open Source <http://trac.osgeo.org/geos>

3,437 commits 10 branches 63 releases 8 contributors

branch: svn-trunk libgeos

Add 32-bit build in travis-ci config (#658)

strik authored 18 hours ago latest commit 00a34c3e05

capi	bump to 3.5.0 and capi to next	23 days ago
cmake	Removed Subversion ld keyword from all text files (#480)	2 years ago
debian	Complete Note#1 in the http://wiki.osgeo.org/wiki/GEOS_Provenance_Review	2 years ago
doc	Drop embedded RCS logs	a year ago
include	Declare QuadEdge and QuadEdgeSubdivision constructors as virtual to c...	6 days ago
macros	Fix "puts puts" typo in ruby macro (#625)	6 months ago
php	Expose Delaunay triangulation to PHP API (#567)	2 months ago

Code Pull Requests 5 Pulse Graphs Network

HTTPS clone URL <https://github.com>

You can clone with HTTPS, SSH, Subversion, and other methods.

Clone in Desktop Download ZIP

HTTPS clone URL
<https://github.com>

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Clone in Desktop

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libgeos
forked from libgeos/libgeos
Geometry Engine, Open Source
Last updated 6 months ago

NORKART

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GitHub, Inc. (US) <https://github.com/Norkart/libgeos/tree/svn-trunk>

Getting Started Suggested Sites Web Slice Gallery C++11 Features (Mod...) 10 More Visual Studio ... SQL Fiddle Infinite Lifetimes: Boos... ACCU:: Overloa

This repository Search or type a command Explore Gist Blog Help meastp

Norkart / libgeos
forked from libgeos/libgeos

Unwatch 2 Star 0 Fork 15

Geometry Engine, Open Source <http://trac.osgeo.org/geos> — Edit

3,323 commits 12 branches 59 releases 7 contributors

branch: svn-trunk libgeos

This branch is 0 commits ahead and 0 commits behind svn-trunk

Add header guard to CLocalizer (#619) ...

strk authored 7 months ago latest commit c27c4f0fde

- capi Expose Delaunay triangulation to C-API (#565) a year ago
- cmake Removed Subversion Id keyword from all text files (#480)
- debian Complete Note#1 in the http://wiki.osgeo.org/wiki/GEOS_Prove
- doc Drop embedded RCS logs
- examples Drop embedded RCS logs
- include Add header guard to CLocalizer (#619)
- macros Add --clibs to geos-config and GEOS_C_LIBS to geos.m4 (#449)
- php Add support for phpunit 3.6 (not loosing support for 3.4)
- src Fix header guard and port info in LocationIndexOffline (#618)

Pull Request



GitHub, Inc. (US) <https://github.com/Norkart/libgeos/compare/svn-trunk-io-wkt-performance?expand=1>

Getting Started Suggested Sites Web Slice Gallery C++11 Features (Mod...) 10 More Visual Studio ... SQL Fiddle Infinite Lifetimes: Boos... ACCU:: Overloa

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Norkart / libgeos
forked from libgeos/libgeos

Unwatch 2 Star 0 Fork 15

libgeos:svn-trunk Norkart:svn-trunk-io-wkt-performance

Bin trunk io wkt performance

Write Preview Comments are parsed with GitHub Flavored Markdown

Leave a comment

We can't automatically merge these branches
Don't worry, you can still submit the pull request

Send pull request

4 commits 4 files changed 0 comments 1 contributor

Feb 12, 2013
meastp Writer: added constructor to preallocate the string 5a84581

Feb 26, 2013
meastp Added constructor to Writer to preallocate string e924c65
meastp Added test for Writer with preallocation 41718ba
meastp WKTWriter::appendCoordinate optimisation 85064c3

Showing 4 changed files with 70 additions and 37 deletions

Show Diff Stats

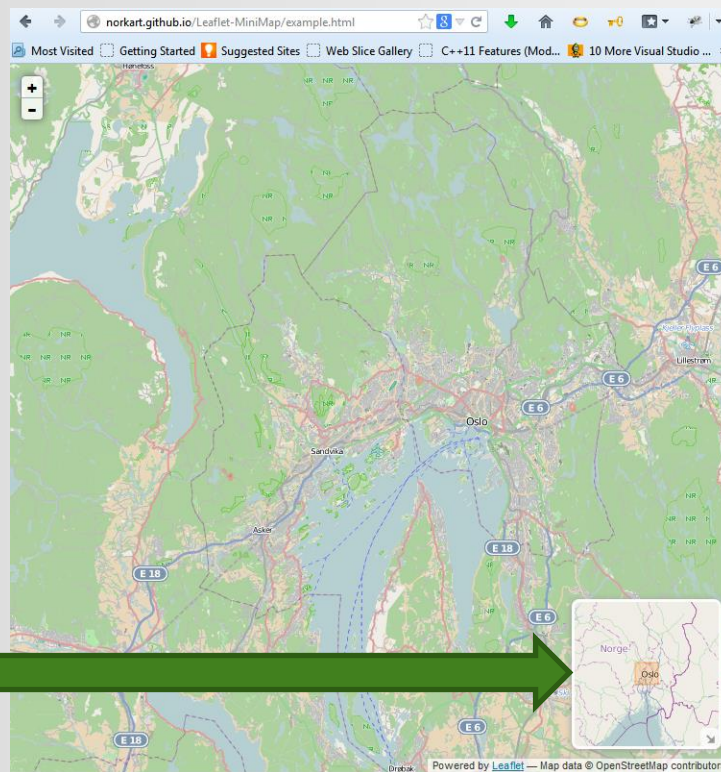
include/geos/io/Writer.h View file @ 85064c3

```
... -8,7 +8,7 @@  
 *  
 *  
 * This is free software; you can redistribute and/or modify it under  
 * the terms of the GNU Lesser General Public Licence as published  
 * by the Free Software Foundation;  
 * by the Free Software Foundation.  
 * See the COPYING file for more information.  
 *  
 .....  
 -35,6 +35,7 @@  
 35 35 class GEOS_DLL Writer {  
 36 36 public:  
 37 37 Writer();  
 38 + Writer(unsigned int buf_prealloc_size);  
 39 39 ~Writer();
```

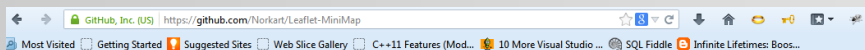
UTFORDRINGER

- Krav til dokumentasjon, kode, tester er ofte høyere enn internt
- Ingen garanti for at koden blir akseptert (tips: spør derfor først)
 - Introduksjon av uønsket avhengighet
 - Prosjektets og bidragets visjoner er forskjellige
- Hvordan kvantifisere økonomisk gevinst for bedriften ved bidrag til FOSS?

SUKSESSHISTORIE: LEAFLET.MINIMAP



SUKSESSHISTORIE: LEAFLET.MINIMAP



Norkart / Leaflet-MiniMap

A minimap control plugin for Leaflet — Edit

66 commits 2 branches 0 releases 9 contributors

branch: master Leaflet-MiniMap

Made the map transition too for a v. cool effect		
robpvn	authored 12 days ago	latest commit ba7dbc90eb
example	Add test page for low min zoom bounds	a month ago
src	Made the map transition too for a v. cool effect	12 days ago
LICENSE.txt	Initial code commit	10 months ago
readme.md	Update readme.md	4 months ago

readme.md

Leaflet.MiniMap

Leaflet MiniMap is a simple minimap control that you can drop in the corner which shows the same as the main map view.

Using the MiniMap control

The control can be inserted in two lines: First you have to create

Leaflet

Announcing a new plugin: Leaflet.MiniMap

5 posts by 3 authors



Robert Nordan

14/11/2012



Hey all! I just wanted to share this with you: <https://github.com/Norkart/Leaflet-MiniMap>

As you can see from the example, it creates a small minimap in the corner which can be used to navigate the main map. It subclasses L.Control, so it fits nicely in with the other controls. That's about all there is to say, hope someone finds it useful!

/Robert N



b_b

19/11/2012



Hi Robert and thanks for the plugin,

It's now available from the leaflet website plugins page since :

<https://github.com/CloudMade/Leaflet/commit/a74d1773d1260cd198ad5a056635156686bc8d18>

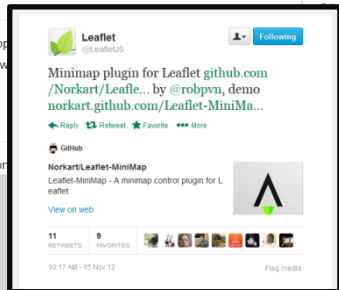
By my side i've also integrated this in the SPIP plugin i'm developing and it works great :)

Thanks a lot for sharing your plugin.

++

b_b

- show quoted text -



SUKSESSHISTORIE: LEAFLET.MINIMAP

www.mapsmarker.com/2013/03/06/pro-preview-minimaps/

Most Visited Getting Started Suggested Sites Web Slice Gallery C++11 Features (Mod... 10 More Visual Studio ...

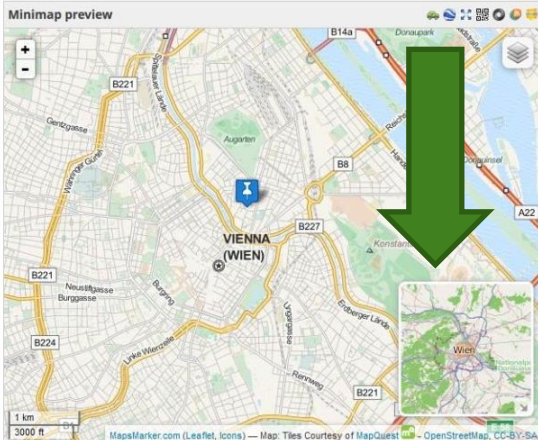
Pro-Feature: Minimaps

Posted on 6. March 2013 by Robert

Recommend Tweet +1

Leaflet Maps Marker Pro integrates the fabulous [minimap plugin by Norkart AS](#) which creates a small map in the corner which shows the same as the main map with a set zoom offset:

Minimap preview



1 km 3000 ft

MapsMarker.com (Leaflet, Icons) — Map Tiles Courtesy of MapQuest — OpenStreetMap, CC-BY-SA

www.mapbox.com/mapbox.js/example/v1.0.0/leaflet-minim

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developers

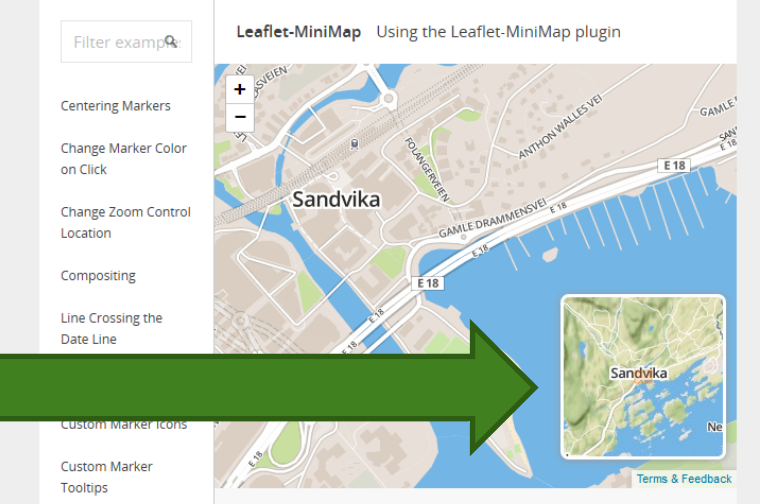
mapbox.js v1.3.1

MapBox JavaScript API

API Example Changelog

Leaflet-MiniMap Using the Leaflet-MiniMap plugin

- Filter examples
- Centering Markers
- Change Marker Color on Click
- Change Zoom Control Location
- Compositing
- Line Crossing the Date Line
- Custom Marker Icons
- Custom Marker Tooltips



Sandvika

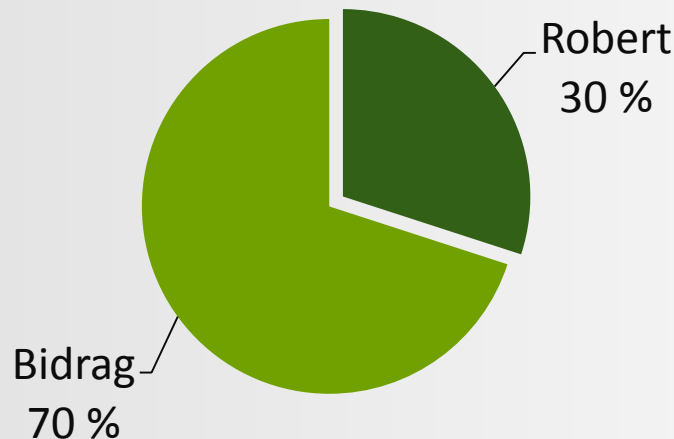
Terms & Feedback

<!DOCTYPE html>

SUKSESSHISTORIE: LEAFLET.MINIMAP

- Lagt ut 14. november 2012
 - én bidragsyter (Robert)
 - ca. 150 kodelinjer
- i september 2013
 - 9 bidragsytere i tillegg til Robert
 - 18 nye commits fra Robert
 - 42 nye commits fra bidragsytere
- Konklusjon: Norkart har fått mye igjen
 - Feilrettinger fra andre brukere
 - Funksjonalitet fra andre brukere
 - Oppmerksomhet og publisitet

Commits etter lansering



NORKART

