Neogeography
and
GIS

Andrew Turner
mapufacture
A Brief History of Cartography

*IANAH
Storytelling
Ephemeral Maps

Figure 6. 1825 Anonymous Native American map on skin (redrawn for clarity) by Raymond Wood.
The original of this Native American skin map, circa 1825, was brought to England by Mullanphy and is housed in the collection of the British Museum.
Navigation
Navigation
1492 - Columbus sails the ocean blue
Cartographic Renaissance
• So geographers, in Afric maps,
• With savage pictures fill their gaps,
• And o’er unhabitable downs
• Place elephants for want of towns.
• - Jonathan Swift
Ortelius’ Atlas
Exploration
Maps as Travel Guides
TURN TO RIGHT (WEST).
This photograph was taken just around the corner from Photo No. 28.

TO THE RIGHT AND WEST.
White frame cottage sitting back about 100 feet on left as you turn. Next turn, Cherry Valley, 6 1/2 miles.

TO THE LEFT.
Erick school building on the right. Next turn 1 1/2 mile.

TO THE LEFT AND SOUTH.
Frame house with red roof on the right sitting back, just before you come to the turn. Next turn 550 feet.
GIS
Slippy Maps
&
Spinny Globes
OpenStreetMap
Introduction to Neogeography

By Andrew J. Turner

Neogeography combines the complex techniques of cartography and GIS and places them within reach of users and developers.

This Short Cut introduces you to the growing number of tools, frameworks, and resources available that make it easy to create maps and share the locations of your interests and history. Learn what existing and emerging standards such as GeoRSS, KML, and Microformats mean; how to add dynamic maps and locations to your web site; how to pinpoint the locations of your online visitors; how to create genealogical maps and Google Earth animations of your family's ancestry; or how to geotag and share your travel photographs.

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Recap

- Explanation
- Exploration
- Navigation
- Urbanization
- Digitization
- Democratization
“GIS is dead.”

Tim Bowden
Mapforge Geospatial
@ FOSS4G 2007
### Conference Programme Day One

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00-9:10</td>
<td><strong>Panel Session</strong>&lt;br&gt;AGI 2007 Strategic Committee&lt;br&gt;AGI 2007 Strategic Committee&lt;br&gt;AGI 2007 Strategic Committee</td>
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<td>9:10-9:30</td>
<td><strong>Lunch</strong></td>
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<td><strong>Lunch</strong></td>
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### Conference Programme Day Two

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<td>11:00-12:00</td>
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<td>12:00-1:00</td>
<td><strong>Lunch</strong></td>
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**BIG DEBATE**

*Will Geographical Crush Professional GIS?*

Chair: Jeff Thurston

- Conference Roundup and Best Paper
  - Steve Feldmann
- Conference Close by AGI Director
Those who fail to learn history...
2005 - Google slips the map

GPS becomes ubiquitous

participatory web

urban renewal

mobile computing
Explanation
Desire Lines
World Digital Library
GeoGeneology

Family Tree Maker

MemoryMiner
Exploration
Navigation
Street Maps
Bike Maps
Visualization

Google StreetView

EveryScape

EveryScape is the only place you can discover your everyday world, your way. Today, you can check out Union Square, San Francisco as the first city to be scaled. You can check out restaurants, hotels, go shopping, drive by homes. You can see what other people are saying and share your comments as you stroll down the street. Click on the link to the right to vote for the next City Scape—it could be yours.
Democratization
Colloquial Geography was just lagging
A Simile: Economics
Personal Budgets
National Economy

2008 Budgets

2007 Budgets
NeoEconomics?
But what is neogeography?
Neogeography isn’t...

• open-standards
• open-source
• analysis
• GIS

... but it can use these
towards a definition
neoclassicism

As an aesthetic and artistic style this originated in Rome in the mid 18th century, combining a reaction against the late baroque and rococo with a new interest in antiquity. In music, the term refers to a return by composers of the early 20th century to the forms and styles of the 17th and 18th centuries, as a reaction against 19th-century romanticism.
colloquial
used in ordinary or familiar conversation; not formal or literary.
neogeography | nē'ō-jē-ŏg'rē-

geographical techniques and tools used for personal activities or for utilization by a non-expert group of users; not formal or analytical.
It’s about the user
Is this the user?
This is the user

http://flickr.com/photos/ayula/55908651/
He should be a user

http://flickr.com/photos/thomashawk/35413354/
She's your next user
How can we work together?
Standards

Committee
- WMS
- WFS
- WCS
- GML
- Dublic Core

Community
- GeoRSS
- GeoJSON
- Microformats
- Atom

Other
- KML
- HTML
GeoStack
Creating

- Cameras
- Phones
- Video
- GPS
- PND’s
- Sensors
- Stories
- Archives
- Paper

Create

- KML
- GeoRSS
- GPX
- Exif
Eye-Film
Imagery
Map Rectification

Map Rectifier — "From MetaCarta Labs"

Source Map

Reference Map

Ground Control Points

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RMS Error: 12.463

Instructions: Double click on the source map. A marker will be added. Double click on the right side to associate that point with the reference map. Double clicking on the reference map will edit the currently open marker. Click on a marker on either side to start editing it. Clicking the 'x' in a popup will remove that GCP.

Warped Image:
- Download GeoTIFF (May Be Large)
- Download JPEG 2000
- WMS/WCS URL (Good for use with OpenLayers)

Find a Location: Best fit
Mecklenburgh Street road barrier

Reported in the Roads/highways category by Andrew Ritchie at 01:28 today
Sent to Camden Borough Council 1 minute later

The road barrier at the northern end of Mecklenburgh Street normally provides access only for bicycles and emergency vehicles. The removable central pillar has disappeared, now allowing cars to drive through, often at speed. Mecklenburgh Square is thus being used as a short cut by cars, thereby making pedestrians vulnerable in this quiet square. Could the central barrier please be reinstalled?

Offensive? Unsuitable? Tell us

More problems nearby

Provide an update

Please note that updates are not sent to the council.
Assault / Aggravated assault: Handgun

Latest reported crimes

<table>
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<tr>
<th>Date</th>
<th>Time</th>
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<td>OCT 28</td>
<td>6 a.m.</td>
<td>HN675206</td>
<td>2500 block N. Kilbourn Ave.</td>
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<tr>
<td>OCT 28</td>
<td>2:35 a.m.</td>
<td>HN674339</td>
<td>7700 block S. Laflin St.</td>
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<tr>
<td>OCT 28</td>
<td>2 a.m.</td>
<td>HN674226</td>
<td>5600 block S. Normal Blvd.</td>
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<td>OCT 27</td>
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<td>HN673758</td>
<td>3900 block W. Fillmore St.</td>
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<td>7:45 p.m.</td>
<td>HN673772</td>
<td>6500 block S. Emerald Ave.</td>
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<td>OCT 27</td>
<td>5:05 p.m.</td>
<td>HN673534</td>
<td>7100 block W. Irving Park Rd.</td>
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<td>3:45 a.m.</td>
<td>HN672546</td>
<td>8800 block S. Indiana Ave.</td>
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<td>1300 block W. Birchwood Ave.</td>
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<td>12:30 a.m.</td>
<td>HN672284</td>
<td>12500 block S. Indiana Ave.</td>
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<td>1900 block N. Rockwell St.</td>
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<td>OCT 26</td>
<td>8:15 p.m.</td>
<td>HN671875</td>
<td>600 block E. 40th St.</td>
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The following sites were selected and the text written by Kim Fern. The supporting material, including photography and web links, was added by members of the Lewis and Clark College Political Economy Program. As Kim Fern explains, “This tour is an attempt to show you some of what isn’t shown, what has been left out of our city’s heritage and our “movement’s” memory. This is for you to take to the library or the Historical Society or to the City Archives and spend hours finding details that make your heart race. This will show you people, organizations, groups, and events that have inspired and changed us.”

There are many stops which have, unfortunately, been torn down. Those stops are marked with an asterisk (*)
GeoPress
Yahoo Pipes
Aggregating/Search/Analysis

GeoRSS  μF  KML  MachineTags

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Aggregate

KML  GeoRSS  WFS  GML
Mapufacture is a geo-aggregator. Find interesting feeds from blogs, photos, weather, friends, and activities. Build maps of the places you care about. Share these maps and use them on the go. Search for interesting around the world.

Better Browsing
Changes are already on the loose. Browse Feeds and Browse Maps have received some UI niceness, so finding the geo content you’re after is just a little bit easier. And it’s just getting started...

Fresh
Just getting a feel for our new voice box, and our new home. Mapufacture is on new and crucially more reliable hosting. And we’re gearing up to for a flurry of...
GeoServer
Consuming

GeoRSS  WFS  KML  GML

GPX  JS  HTML  Mobile
WHERE Mobile
Garmin Nüvi
Lather
Rinse
Repeat
GeoStacked

- Real Estate
- Travel
- Community
- Disaster Response
- Social

Create
Publish
Aggregate
Consume
House Hunting

⇒ GPX ⇒

- Microsoft Excel
- Getting Started
- Microsoft Office Online
  - Connect to Microsoft Office Online
  - Get the latest news about using Excel
  - Automatically update the list from the web
- Open

- Garmin GPS device
  - Northeast to I-635 N
House Hunting

KML → GPX

trulia
real estate search
House Hunting

GPX

KML

trulia
real estate search
House Hunting

GPX

KML
House Hunting
House Hunting
House Hunting
House Hunting
Apartment Hunting
Disaster Response

- Tiles
- WFS
- GeoRSS
- WFS
- KML
- GeoRSS
- KML
- Sensors
- WFS
- WMS
- KML
Disaster Response
MODIS Active Fire Mapping Program

250-meter Georeferenced MODIS Surface Reflectance Subsets

Download this subset as 3-band JPEG or GeoTIFF, or as a 7-band BSQ (band sequential) image. Click here for a description of the MODIS spectral bands used for land remote sensing and subset projection information.

Bands 1, 4, 3 (True Color) 1.04 MB
Bands 7, 2, 1 (False Color) 1.16 MB
Bands 1 - 7 (BSQ) 55.26 MB
True and False Color (GeoTIFF) 32.43 MB

Subset Acquisition Calendar

November 2007

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</table>
San Diego County Fires - KPBS Online

Updated 11/01/07.

All evacuation orders have been lifted. Fire status will continue to be updated until all fires are out (click on fire icons for text pop-ups). Fire perimeters (not active burn areas) are based on County Emergency Operations Center data. They are no longer being updated. Thanks to our friends at SDSU's Geography department for their assistance.

http://www.kpbs.org/fires
http://maps.sdsu.edu

1,550,736 views - Public
Created by KPBS Online on Oct 21 - Updated Nov 1

**Harris Fire**
The Harris Fire is 90,440 acres and 100%

**Witch Creek Fire**
The Witch Fire is 197,990 acres and 100%

**Evacuation Lifted: Escondido**
All areas within the City of Escondido

**Rice Fire: 100% Contained**
The Rice Fire is 9,000 acres and 100%

**Evacuation Lifted: Dehesa & Harbison**
10/25 2:30pm The following areas of the

**Evacuation Lifted: Solana Beach**
The City of Solana Beach has lifted all

**Evacuation Lifted: Chula Vista**
Residents of Chula Vista that were

**Witch Creek Fire**
Fire perimeter updated 10/25/07 3:00PM

**Harris Fire**
@kpbsnews: Local assistance center at Rancho Bernardo Glassman Rec Center located at 18448 W. Bernardo Dr, M–F 7am–8pm, Sat 8am–4pm, Sun 9am–2pm

02:54 PM October 25, 2007 from im in reply to kpbsnews

sandiegofire
Way Forward

- Web Services
- Open Standards
- Accessible Software
- User Participation
- Low-Barriers to Entry
- Play in the GeoStack
thanks!
History

An ancient settlement, attested during the Archaic, Classical, Hellenistic (Roman Republic), Roman and Late Antique periods was known in antiquity by the names: Apollonia, Sozousa and Portus Cyrenorum.

An ancient settlement, attested during the Archaic, Classical, Hellenistic (Roman Republic), Roman and Late Antique periods known in antiquity by the names: Arsinoe, Taucheira and Teucheira.

An ancient settlement, attested during the Archaic, Classical, Hellenistic (Roman Republic), Roman and Late Antique periods known in antiquity by the name: Artamis.

An ancient settlement, attested during the Archaic, Classical, Hellenistic (Roman Republic), Roman and Late Antique periods known in antiquity by the names: Aspendos and Primoupolis.

An ancient settlement, attested during the Classical, Hellenistic (Roman Republic), Roman and Late Antique periods (modern location: Gezyre). It was known in antiquity by the name: Augila.

An ancient settlement, attested during the Archaic, Classical, Hellenistic (Roman Republic), Roman and Late Antique periods it was known in antiquity by the names: Aziris and Azurion.

An ancient settlement, attested during the Classical, Hellenistic (Roman Republic), Roman and Late Antique periods (modern location: Gezyre). It was known in antiquity by the names: Barke and Barkaia.
Thematic Maps
News

Central America
1 Article referring to Central America

- Chocolate began as beer-like brew 3,100 years ago
Oakland Crimespotting is currently being blocked from collecting data by the City’s CrimeWatch website, so updates are sporadic and incomplete.

We have been working to fix the problem, but unfortunately we have been unable to reliably gather new data for much of October, and our one-month view of Oakland’s crime reports is looking sparse.

Check back here or contact us at info@crimespotting.org for updates or more information.

Oakland Crimespotting is an interactive map of crimes in Oakland and a tool for understanding crime in cities.

If you hear sirens in your neighborhood, you should know why. Crimespotting makes this possible with interactive maps, e-mail updates, and RSS feeds of crimes in areas that you care about.

We’ve found ourselves frustrated by the proprietary systems and long disclaimers that ultimately limit information available to the public. As citizens we have a right to public information. A clear understanding of our environment is essential to an informed citizenry.

Key to map symbols

- **AA**: Aggravated Assault
- **Mu**: Murder
- **Ro**: Robbery
- **SA**: Simple Assault
Mapufacture