#### The "geo" URI scheme draft-mayrhofer-geopriv-geo-uri-01

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# What is the "geo" URI scheme?

- An URI is "a compact sequence of characters that identifies an abstract or physical resource" (RFC 3986)
- ,geo' URIs identify such physical resources (a geographic location) using a textual representation of the location's spatial coordinates in either two or three dimensions (latitude, longitude, and optionally altitude). Eg:

#### geo:37.7856,-122.4105

• Compact, simple, human readable, independent from application, protocol or data format.

## Use cases

- Plain URI (typed into navigation device)
- Hyperlink within HTML document (with context from the anchor text)
- Encoded/printed in 2D barcode (decoded via camera by mobile phone)
- ... wherever a protocol supports any URI scheme.
  - vCard
- Replace opaque "lat/lon" style data that has no or weak semantics with a "properly" defined representation

# Syntax

#### geo:<lat>,<lon>[,<alt>]

- WGS 84, as simple as possible
- More syntax options / idea feedback (currently not in the draft):
  - URI parameters (eg. privacy-related) geo:48,16;param=value
  - Query string (to be interpreted by application)

## Actual use

- Implemented in Android (fires up map when "geo:" URI is clicked in browser). Thanks to Ray Bellis for spotting that!
- <u>http://developer.android.com/guide/appendix/g-app-intents.html</u>
- Example: <u>http://nona.net/tool/geouri.html</u>



## Status / next steps

- Changes in -01
  - Better WGS 84 terminology (Carl Reed)
  - Removed weak "resolution/uncertainty" text
  - Added considerations regarding poles and invalid locations
- Feedback?
- WG adoption?