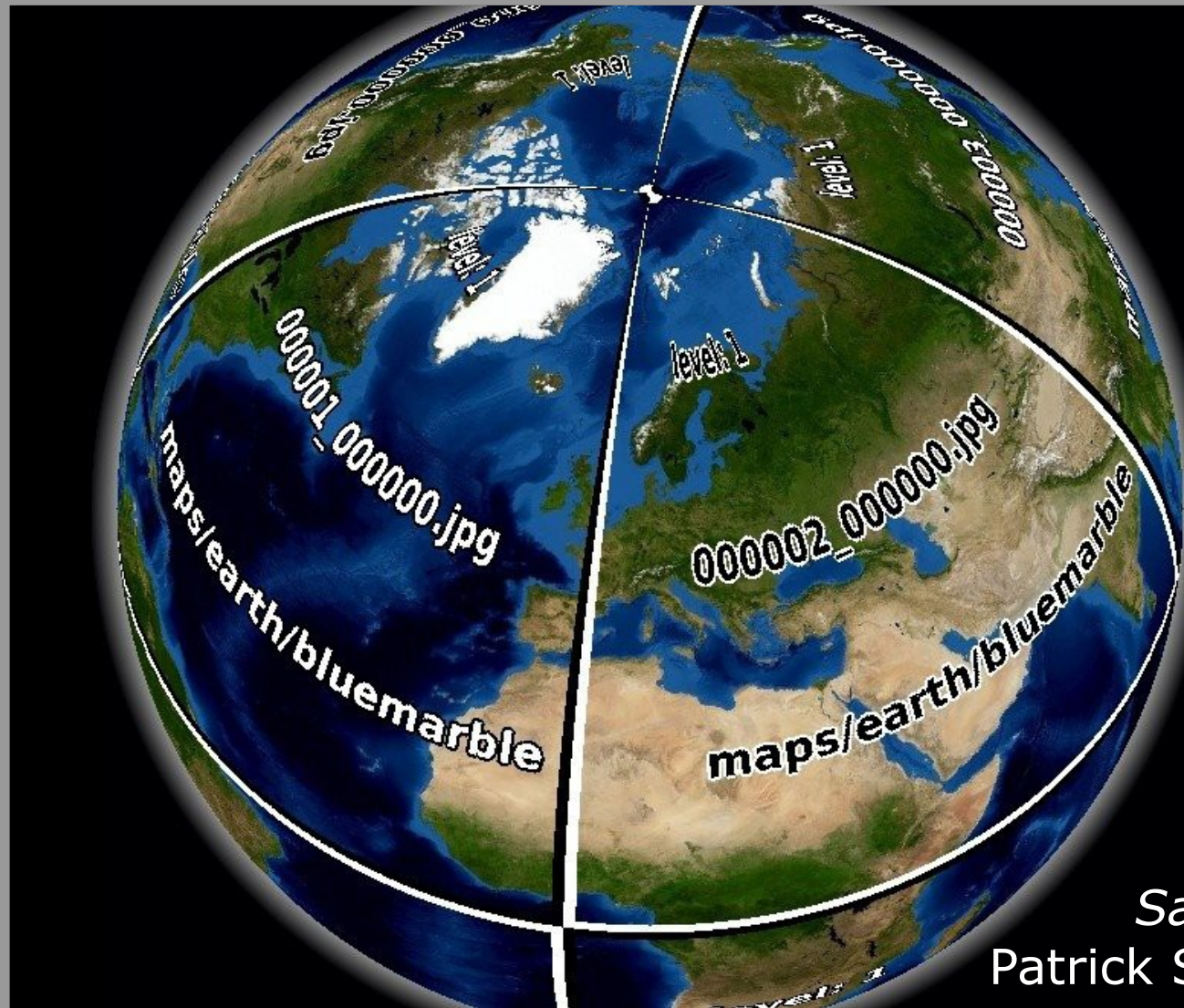




MARBLE

Talk at aKademy 2008



SaroEngels
Patrick Spendrin



What is Marble?

- Marble is a free digital globe application
- ranging from the digital equivalent of an atlas to a simple interactive map widget
- for developers: easy widget which can handle all geographical needs for you



Usage

- KDE control center: timezones and location
- edu: kstars, kgeography
- digikam: geolocation of photos
- Worldtime clock plasmoid replacement
- KOffice shape
- Qt browser plugin



digiKam: Ísland





Requirements & constraints

- small internal data set (~ 10 MB)
- downloadable: data for OSM¹, Wikipedia
- no hardware acceleration needed
- no other dependencies needed than Qt
- fast startup time (2-5 secs) compared

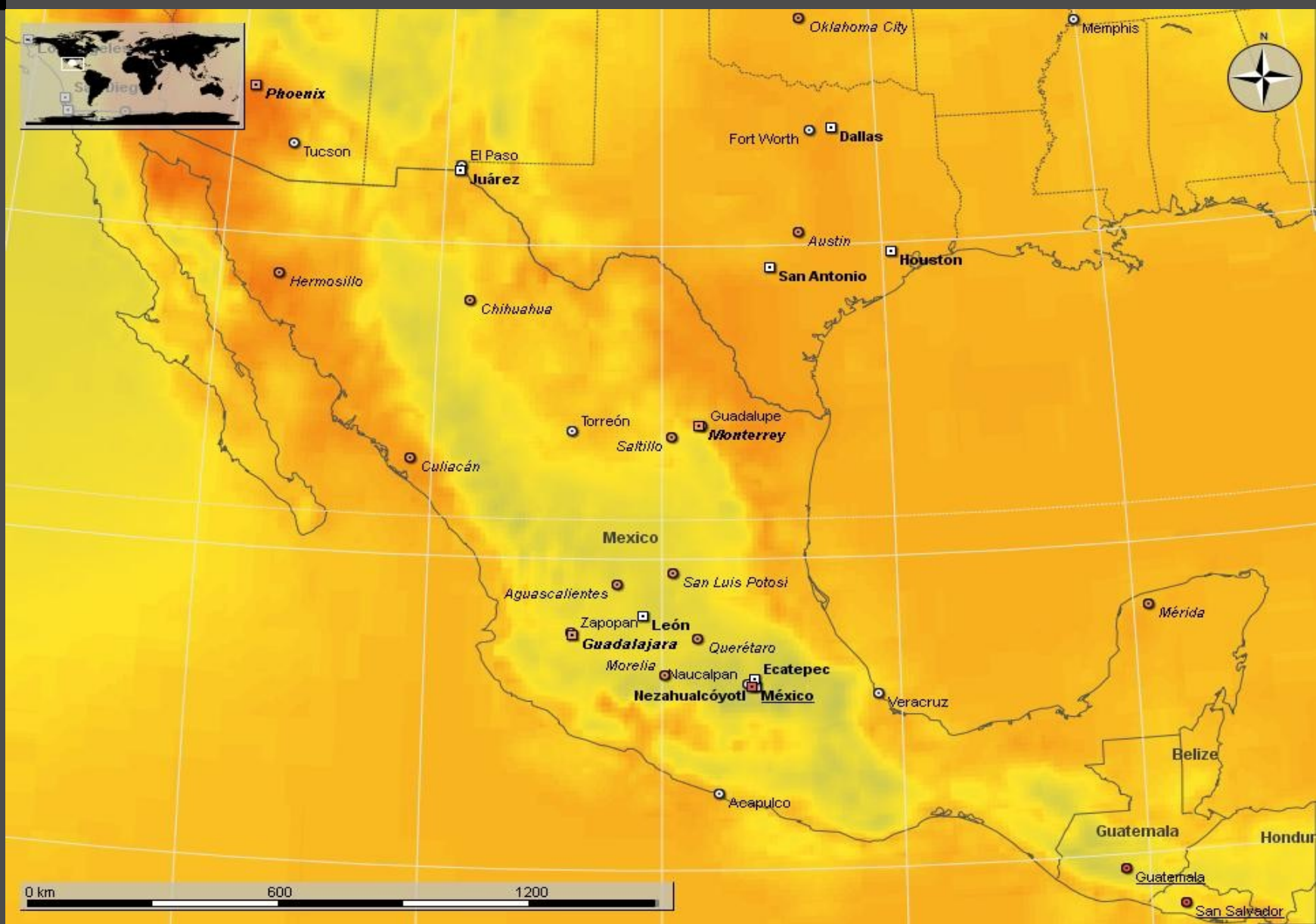


Platforms & Portability

- Linux, Windows, Mac, Unix, Qtopia, WinCE
- first ones in KDE, Qt only version for all available
- extend easily with new maps:
 - Precipitation
 - temperature maps
 - future project: earth-quake overview



Temperature in July





New plugin architecture

- providing really simple API derived from QPainter
- providing a way to access all data from the marble model
- even interactive plugins possible



Ideas and soon to come

- vector tiles (my GSoC - see a bit later)
- OSM-namefinder
- NASA WorldWind source support
- marble on mobile devices – from N810 to Asus Eee PC
- routing support via openrouting.org
- view (and possibly change) gps data



Vector Tiles

- Instead of image data use XML formatted data / binary caches of this structure
- Tiles will be generated from World Database sources (up to 250m/pixel) currently in use for image data
- Easily support OpenStreetMap later
- Output via independent rendering plugin



Vector Tiles





Thanks to

Thorsten Rahn, Inge Wallin, Jens-Michael Hoffmann, Harry de Valence, Carlos Licea, Andrew Manson, Murat Tagirov, Nicolas Zimmermann, Pino Toscano, Anne-Marie Mahfouf, Claudiu Covaci, David Roberts, Jan Becker, Laurent Montel, Simon Schmeisser, Shashank Singh, KDE's Translation team, and lots of other people all over the Marble



Thank you for your attention



KDE is ours.



World domination one step at a time.