Marble
A generic Map Widget

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Outline

Marble: A generic Map Widget

KDE lacks a generic widget that can be used to display geographical maps. Right now implementation as well as data is duplicated all over SVN.

Examples of Use

- KDE Control Center (personalisation, timezones)
- KDE-EDU (KGeography, KStars)
- KDE-PIM (KAddressbook, Kopete)
- Others: kworldclock, ktraceroute, ...

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Requirements

- Marble should use a minimal free dataset that can be used offline
- Should be able to run decently without hardware acceleration
- Should be able to display vector as well as bitmap data
- 3D because it's more appealing and offers less distortion
- "No" startup time, fast
- Supported file formats: GoogleEarth's KML
- Not implemented yet: download data from the internet on demand, reference to Wikipedia, Google Maps data

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State

- Marble uses Qt 4.1, Marble's Canvas uses Arthur
- "Themes": different maps specified in XML files. Texture maps consisting of bitmap tiles (e.g. "Atlas", "Earth at Night", "Satellite View")
- Topographic Atlas: Compilation of vector data (MWDBII) with digital elevation model bitmap data (ETOPO2), Creates relief (bump mapping) on the fly.

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TODO

- Move Marble source code from danimo's SVN repository to kde-playground
- Finishing implementation of placemarks (cities, etc.)
- Implement loading tiles on demand via ftp/http
- Make objects accessible

Questions ?

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