



Module: Cartography
and
Geovisualization

ONLINE AND MOBILE MAPS

By: Omirzhan Taukebayev
o.taukebaev@gmail.com

Department of Cartography and Geoinformatics
Al-Farabi Kazakh National University



Aims and Objectives

Aims of the lesson to give students the opportunity to develop a good understanding of online maps and their features. At the end of the lesson, the student must:

- Know about online and mobile maps and their types
- Know about the possibilities of online maps
- How to use online and mobile maps



Content

1. WHAT IS A MAP?
2. ONLINE MAPS
3. TYPES OF ONLINE MAPS
4. MOBILE MAPS
5. HOW IT'S WORK?
6. CONCLUSION



Bibliography

1. <http://smashingjournal.ru>
2. <http://maps.nationalgeographic.com/maps>
3. <http://www.gosur.com/>
4. <http://www.yourchildlearns.com/online-interactive-maps.htm>
5. <http://www.johnscreekga.gov>

Teaching and learning methods:

Lectures, lab work, self-study on articles in magazines

Required infrastructure:

Class room with computer projector, computer laboratory with internet

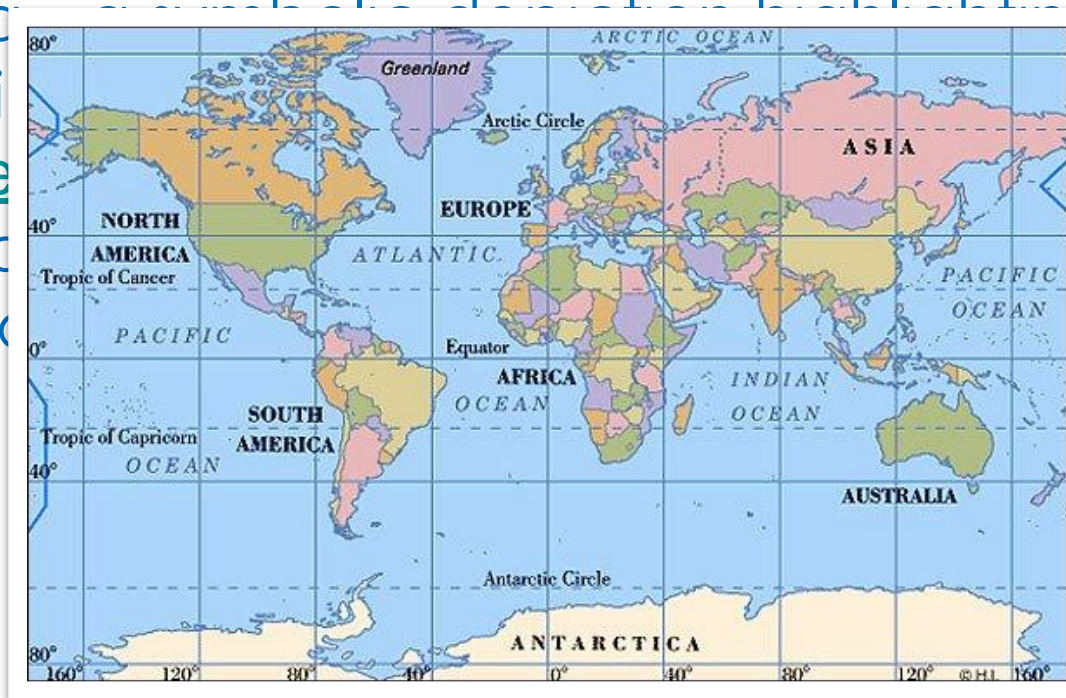
Assessment :

To pass this module, the students are required to complete all exercises; successfully present the final project



What is a map?

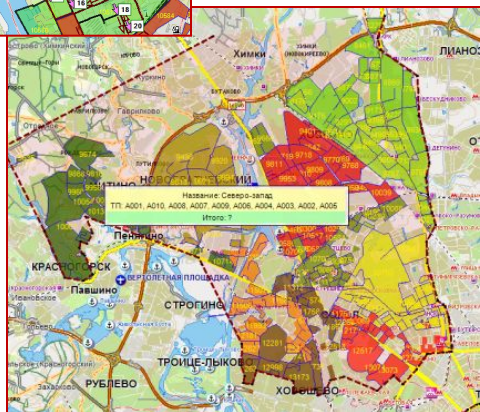
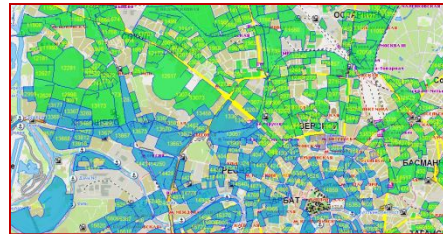
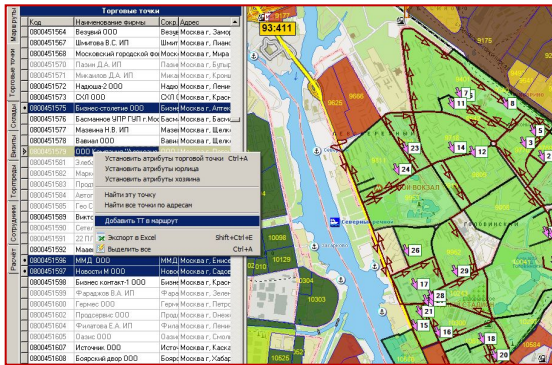
A **map** is a visual representation of an area—a symbolic depiction highlighting relationships between elements of that space such as objects is a visual representation of an area—such as symbolic depictions highlighting relationships between elements of that space such as objects, relationships, boundaries, and themes.





Online maps

Online maps Online maps can be basically divided by the covered area (global or local) and by the representation of this area (classic drawn or orthophoto).

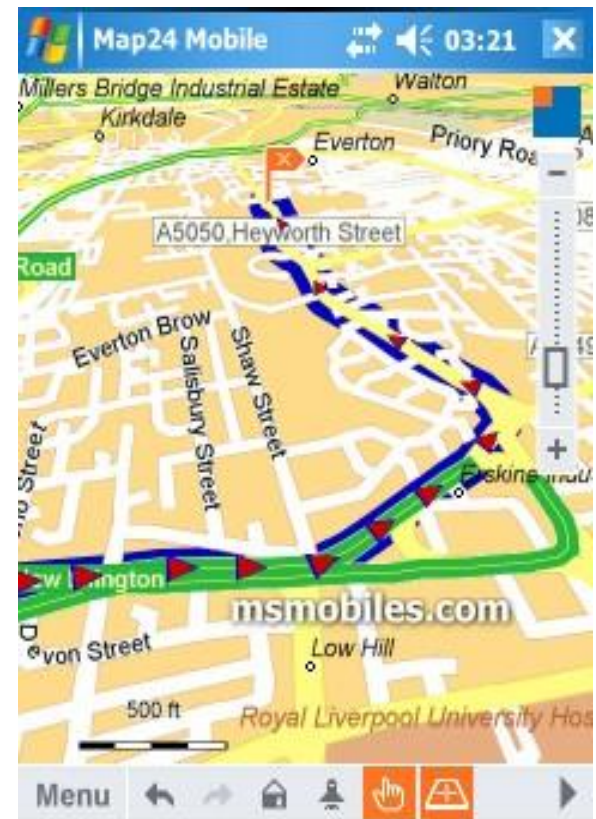




Global online maps

These maps cover the world, but may have insufficient details in some areas.

- [OpenStreetMap](#)
- [Google Maps](#)
- [Map24](#)
- [Bing Maps](#)
- [ViaMichelin](#)
- [MapQuest](#)
- [WikiMapia](#)
- [Nokia Maps](#)
- [NearMap](#)
- [Mappy](#)
- [Yahoo! Maps](#)



<http://apple-pod.ru/news/news-apple/mnogie-kompanii-otkazalis-ot-google-maps.html>

<http://www.coolwebmasters.com/tags/Google+Maps/>



Local online maps

Local maps cover only part of the earth surface, and may be more detailed than the global ones.

citylife Карта [Каталог компаний](#) [О проекте](#) [API](#)

[Компании](#) [Автобусы](#) [Автозаправки](#) [Банкоматы](#) [Место по адресу](#)

Название события, компании, товара или услуги

Например, Ресторан

© Guideret MAPS, 2008, © 3FO «Резидент» Условия использования



United Kingdom

[Maps of the UK and Ireland](#)

<http://www.plangis.co.uk>

[Digimap](#) - Ordnance Survey, British Geological Survey, SeaZone and Historical Maps for Academic Use.

Ukraine

<http://mapia.ua>

[Яндекс.Карты](#) - has Street view feature

United States

[TerraServer-USA](#) - covers the whole country



Austria

[AMAP Austria](#) - tourist map which covers the whole country

China

[Sogou Map](#) Sogou Map - covers [Mainland China](#) Sogou Map - covers Mainland China, [Hong Kong](#) Sogou Map - covers Mainland China, Hong Kong, [Macau](#) Sogou Map - covers Mainland China, Hong Kong, Macau and [Taiwan](#).

[Baidu Map](#) - covers Mainland China, Hong Kong, Macau.

[Mapbar](#) - covers Mainland China, Hong Kong, Macau and a general map of Taiwan short of details.

[MapABC](#) - covers Mainland China, Hong Kong, Macau and a general map of Taiwan short of details.

Japan

[Mapion](#)

[MapFan](#) - covers the whole country

Russia

[Яндекс.Карты](#) - has Street view feature



City & Neighborhood Maps



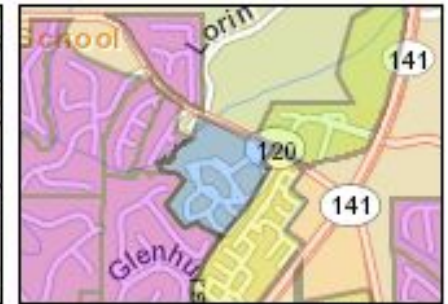
City offices



Community amenities



Tool: Find Business



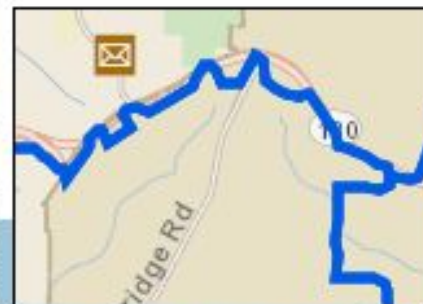
Neighborhoods *



Public schools *



Tool: Road Work *



Zip Codes & Post Offices *



Park & Recreation Maps



Autrey Mill Nature Preserve



Newtown Park



Ocee Park



Founders Day Parade *



Recreation



Shakerag Park



Sidewalks & Trails *



Mobile Maps

- Mobile versions of the interactive desktop maps can be accessed through the mobile phone icon on home or going to
- Within a map, you can pan to a location in another place



<http://www.sygic.com/en/all-sygic-mobile-maps-navigation-apps-for-iphone-updated-globally-for-free>

<http://www.aplikasijavagratis.com/mobile-gmaps-mobile-maps/>



How it's work?

Карты Google

https://maps.google.com/maps?hl=ru

+Omirzhan Поиск Картинки Карты Play YouTube Новости Почта Документы Календарь Еще ▾

Google

Omirzhan Taukebayev 0 + Поделиться...

Маршруты Мои метки

США
Сейчас не здесь? [Исправить](#)

Добавьте свою компанию на Карты Google

Исследуйте карты в режиме MapsGL

- Просматривайте 3D-фототуры достопримечательностей **Новинка!**
- Просмотр 3D-моделей зданий
- Плавное перемещение при осмотре местности под углом в 45 градусов
- Быстрый переход к просмотру улиц

Экспериментальная технология Карт MapsGL (бета) основана на WebGL. Узнать системные требования.

[Попробовать](#)

Лаборатория Карт - Справка

Карты Google - ©2012 Google - Условия использования - Конфиденциальность

500 мил.
500 км

EN 6:52
16.08.2012



Austrian Map online

Interactive Map of Austria

www.austria.info/us/interactive-map-austria

Vacation in Austria
Arrive and revive

Discover Plan Search & Book

MAP SATELLITE TERRAIN CLOSE FULLSCREEN

Zoom to destination

Example: "Vienna" or "Mozart Platz, Salzburg"

Explore Austria

- ▼ Terrific Tips
 - Accommodation
 - Food & Drink
 - Experiences
 - Culture
- ▶ The Nine Regions
- ▶ Where to go in Austria?
- ▶ Activities & Experiences
- ▶ Eating & Drinking
- ▶ Accommodation
- ▼ Useful Information
 - Current Weather
 - Brochures
 - 100 Towns & Cities
 - Free WIFI

Powered by Maptoolkit

© Toursprung GmbH, MapQuest, Map Data: OSM CC-BY-SA - Terms of Use

world_600w.jpg old-world-map.jpg

EN 7:22 16.08.2012

Conclusion



The three most basic tasks of online maps:

1. Navigation and Direction
2. Show relationships and trends in geo-hand
3. Showing attractions.



Thank you for your attention!