



Module: Cartography  
and  
Geovisualization

# ONLINE AND MOBILE MAPS

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# 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

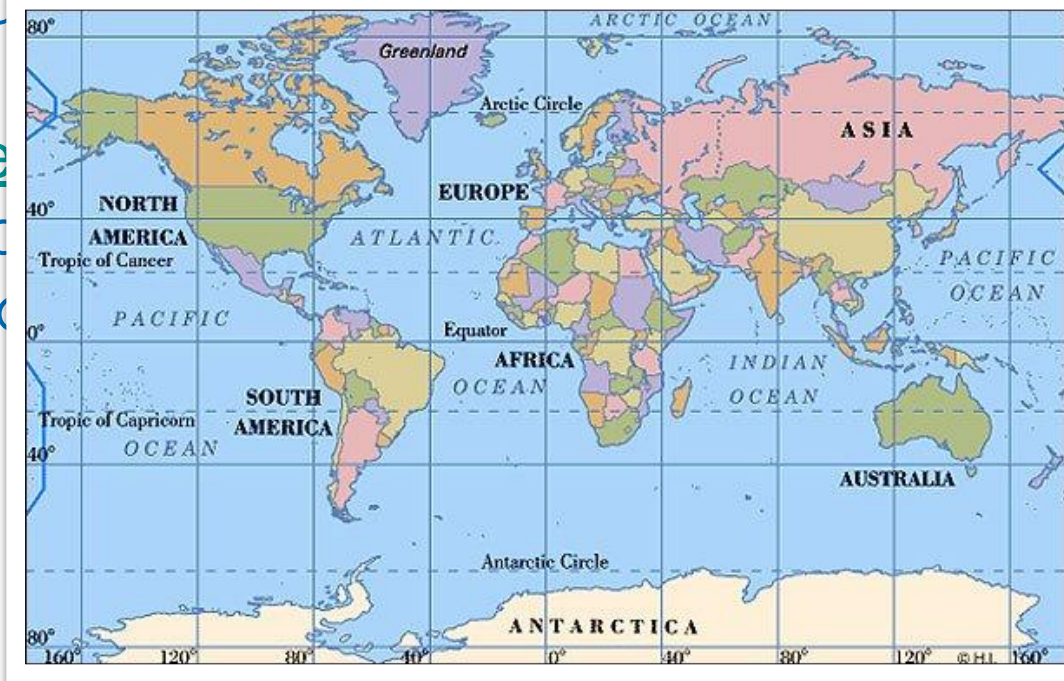
## **Assessment :**

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—relationships between objects, relationships symbolic of elements of relationships, and themes.

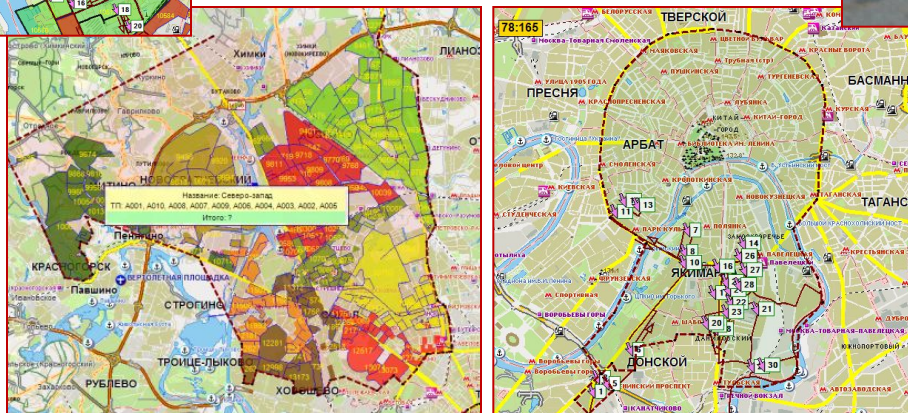
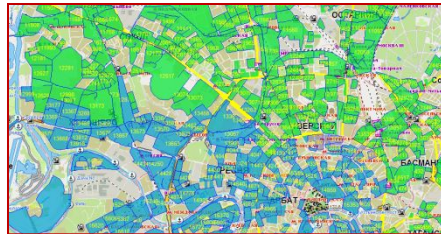
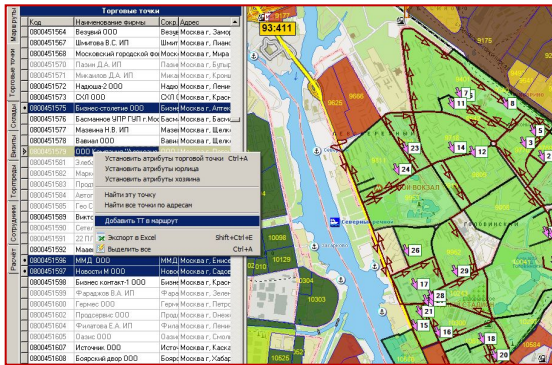






# Online maps

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).

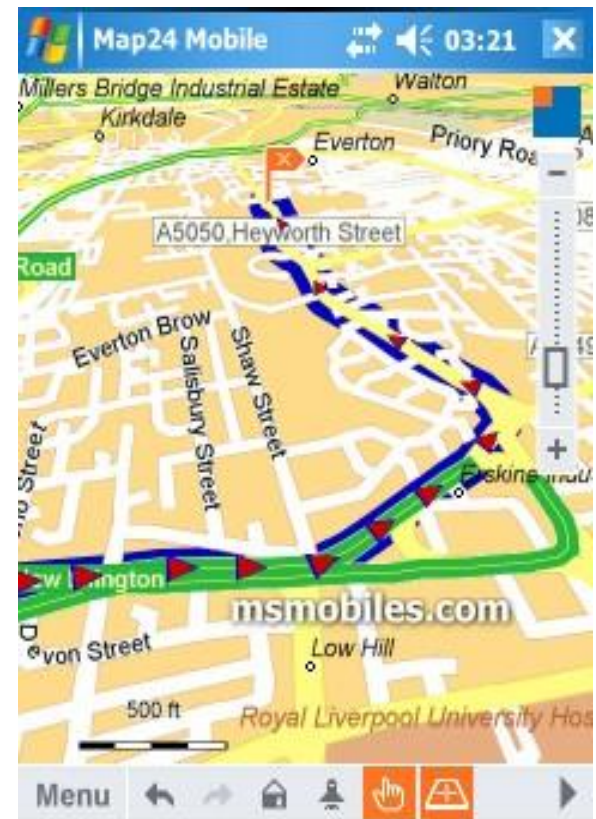




# Global online maps

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

The screenshot shows a detailed street map of an urban area. A search bar at the top contains the text 'Название события, компании, товара или услуги' and a 'НАЙТИ' button. Below the search bar, there are navigation controls and a 'Схема' button. A pop-up window is displayed over a specific location, containing the text: 'Rixos Royal Spa, пр. Сейфуллина, д. 508/59'. The map shows various streets and landmarks, including 'парк "Мир фантазий"' and 'Медуский район'.

© Guidenet MAPS, 2008, © ЗАО «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



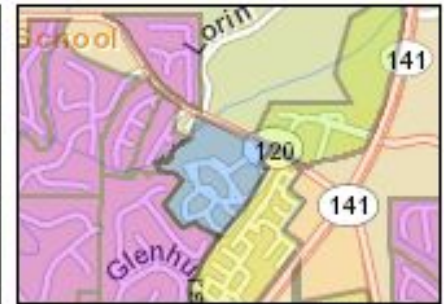
City offices



Community amenities



Tool: Find Business



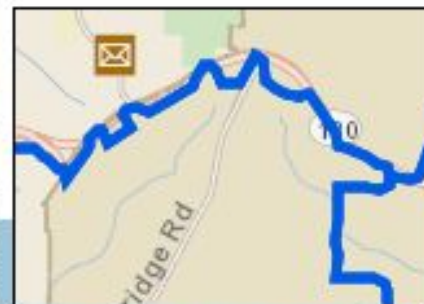
Neighborhoods \*



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/>



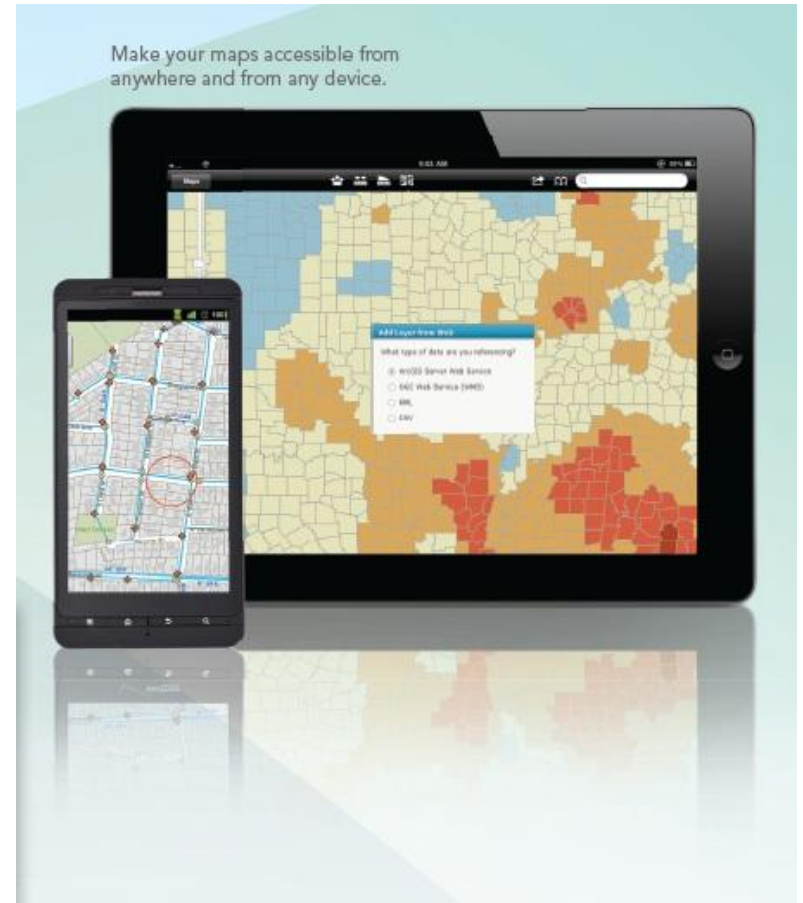
# iPhone, iPad, iPod



WORLD-IPHONE.RU



MobiRobi.info







# 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

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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!**