

# Glographer

Akitoshi Honda / 2010 / <http://www.ahonda.org/home/glographer>



The Glographer is a digital modified analog camera, that shoot a actual news photo from the nation where the camera pointing.

As a symbol of press and news photo rolls a old analog singlelensreflex camera. Backside of the Glographer integrated with smartphone that work as microcomputer. On the display of the microcomputer shown relation from the standpoint of user to the nations, which orientation to nations and how long distance to the nations is. To control the zooming of lens causes choosing distance level of nations. For this purpose customized rotation sensor(encoder) is integrated to the lens. In the same time integrated electric compass on the smartphone measures the geographical direction where the camera pointing at. If the shutter button pressed during pointing a nation, then it shows the news photos as a image stream via internet, at last stays one photo as a preview.



The motivation of this work are from 2 point of view.

One is relationship between social aspect and personal aspect. A news photo is firstly photographed a event by photographer's personal aspect. If the photo published on the media then it is become social aspect. With the Glographer will force the objective aspect return to subjective aspect again.

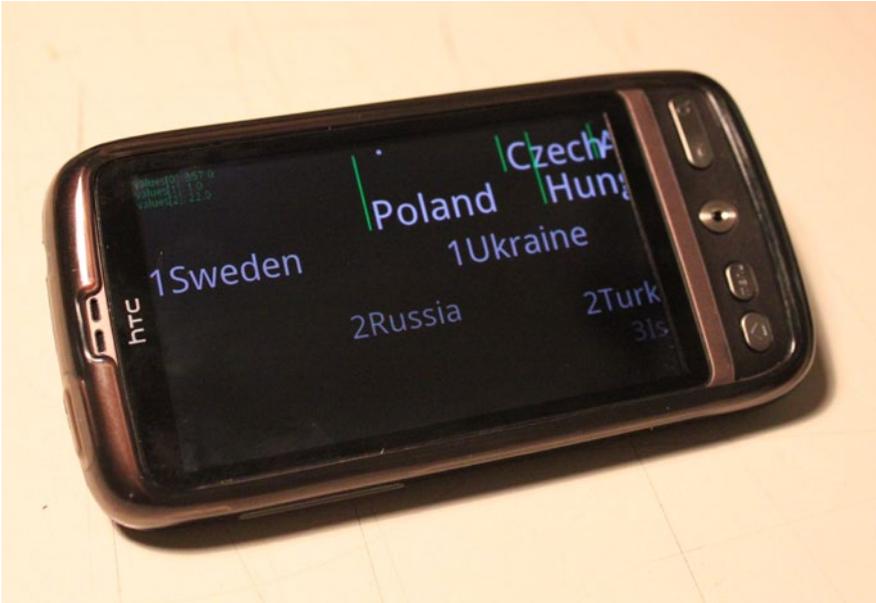
The another motivation is awareness of physical coordination of foreign nations. Present day the news is international. People can read news directly from foreign source via internet. But it is seldom, that people has a awareness of physical coordination where the nation or news exists.

For this purpose Glographer works also as a compass, with that it shows which events, in which country are happens or bring attention.

# Technical discription / Glographer

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For this project following devices / technologies are used.



## Smartphone (HTC desire, Android 2.1)

A Smartphone with special application has a following function,

-Wifi

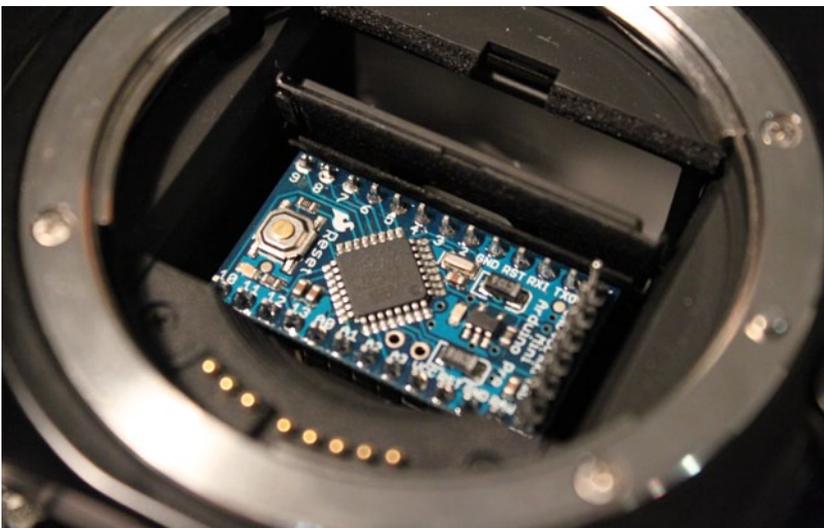
Analyses HTML structure of news site on internet and downloads actual news photos.

-A electric compass

Measures direction where the camera pointing at.

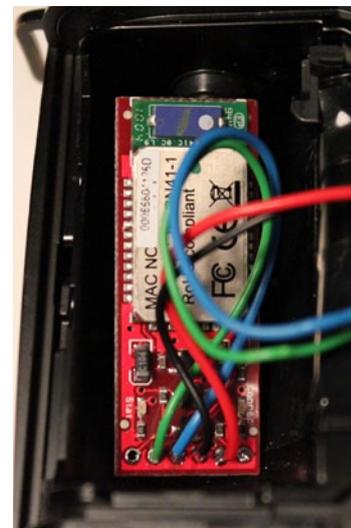
-Bluetooth

communicate with microcontroller.

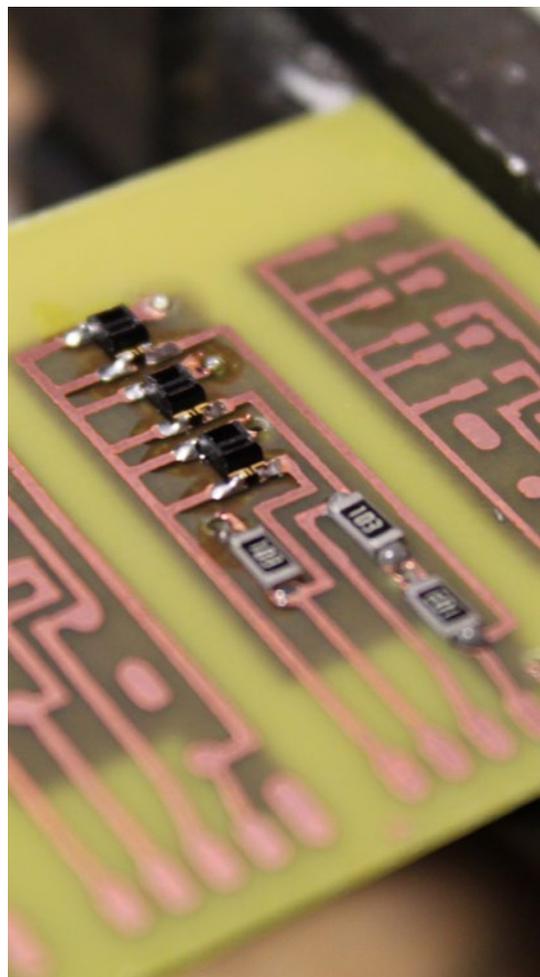


## Microcontroller(Arduino)

A microcontroller watching status of shutter button and zoom ring, these values are sent to the smartphone via bluetooth module.



## Bluetooth module



### **Rotation sensor on zoom ring**

For measuring zoom level a rotation sensor(encoder) is implemented on the zooming. The combination of special pattern and photosensors measures movement value of zoom ring.