

# Luwrain: information technologies for the handicapped close at hand

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# Access for everybody

1. Launch *Luwrain* on any PC:
  - ▶ Take as an application for Microsoft Windows, GNU/Linux, etc
  - ▶ Take as a stand-alone OS on Linux kernel
2. Easily recognizable UI: *Luwrain* takes care of providing information in a way adjusted to the perception of blind people
3. No financial barriers for end-users (free and open-source software)

*Luwrain* isn't a competitor to screen reading solutions.

# Power of Java

- ▶ A plenty of available libraries (POI, JavaMail, GData, etc)
- ▶ Execution on popular OS
- ▶ `javafx.scene.web.WebEngine` has Java Script support and gives access to the DOM-structure of the page
- ▶ Expectation of higher security level

Few arguable disadvantages aren't considered as crucial (garbage collector).

# Standard applications

Applications we're about to take care of:

- ▶ Browser (based on `javafx.scene.web`)
- ▶ Commander (file manager)
- ▶ Mail and news
- ▶ Documents and books reader
- ▶ Editors (“Notepad” and with DOCX support)
- ▶ Twitter client
- ▶ Terminal for command line applications
- ▶ Calendar and personal diary
- ▶ Calculator

**Nobody should care whether he/she has experience in accessibility technologies or not.**

- ▶ You just construct the interface of your application by using our class library
- ▶ We promise that the application built in according to our recommendations will be well-recognizable by blind and visually-impaired people
- ▶ Blind people will get your application regardless their experience, regardless hardware they are using and regardless their financial circumstances

# Looking forward to wide cooperation

1. *With Open Source communities* to implement national standards and foreign languages support
2. *With social organizations* to better understand the requirements of blind people in particular country
3. *With commercial companies* to make their products more accessible (companies get enhancing of their market)

*Luwrain* development is under way in “Electronic Moscow”. Current estimation implies getting the first stable release at the end of 2015.

*Luwrain* is a completely opened project. All of its materials are published and available for reading and using.

# Thank you!

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