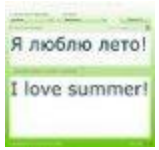
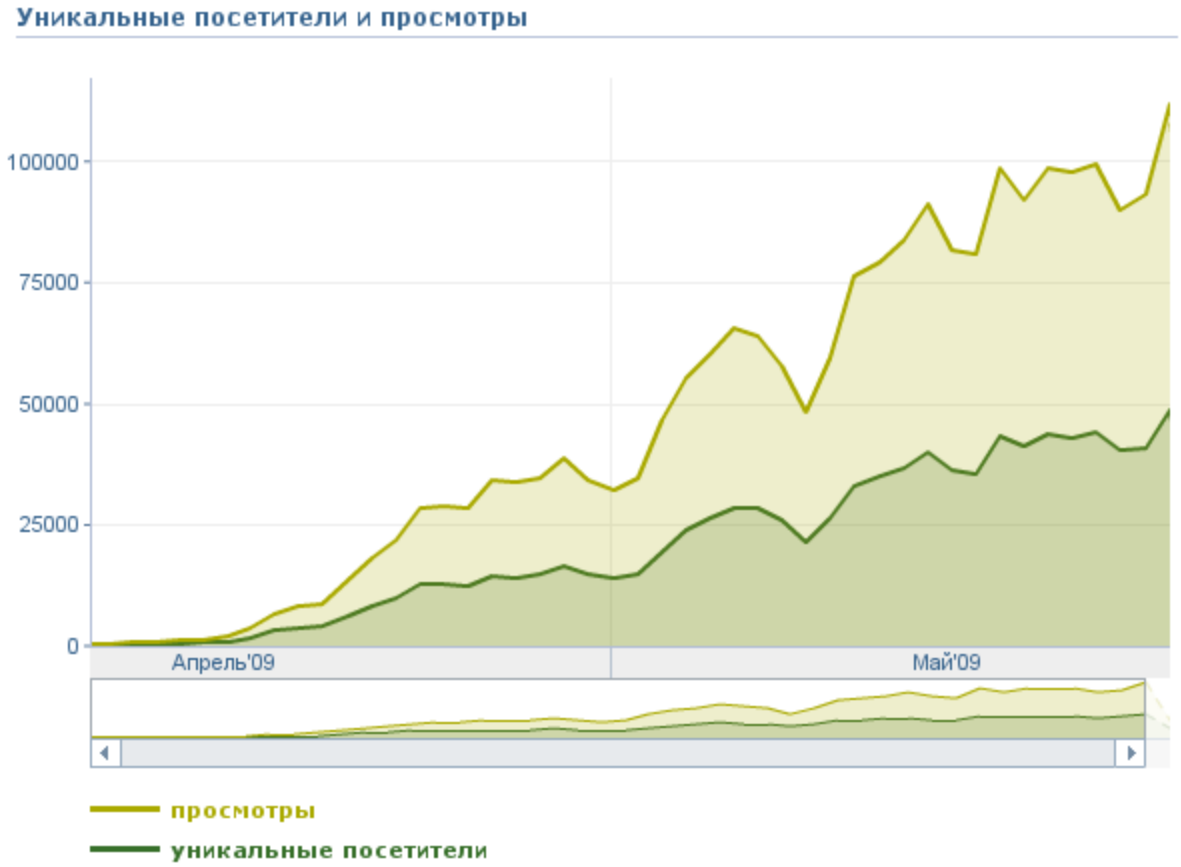
# Технологии которые могут помочь создать социальное приложение.



# Кто я?

- Юра Безнос
- System administration linux с 2002 года.
- Web Designer
- Программист as3/php/perl/python/java и т.п.
- Предприниматель с весны 2010г.

Материалы выступления:

**http://blog.you-ra.info/**

# Зачем технологии?

Идея → Прототип → ???

# Инструменты

Клиенская часть:

- Flex/Flash P2P
- Google Web Toolkit(GWT)

Серверная:

- Tornado(web server)+NginX
- Twisted(networking engine)

# Flash P2P

| The Evolution of Media and Communication Delivery on the Flash Platform | | |
|---|---|---|
| **Traditional Streaming / Communication with Unicast model** | **RTMFP in Flash player 10.0 / Cirrus 1** | **RTMFP in Flash player 10.1 / Cirrus 2** |
|  |  |  |
| Traditional streaming requires a client to receive all data from a centralized server cluster. Scale is achieved by adding more servers | First generation of RTMFP in Flash player 10.0 supported rendezvous. Media was always sourced from the publishing peer. | Second generation of RTMFP supporting groups in Flash player 10.1 supports application-level multicast and reduces the load on the source publisher. |

# Flash P2P libraries


- **P2PGameEngineLibrary(MAX2010)**
- **http://www.flashrealtime.com/p2p-game-lib/**


- **HydraP2P**
- **https://github.com/devboy/HydraP2P**
- **http://devboy.org/2010/09/07/hydrap2p-own-commands/**

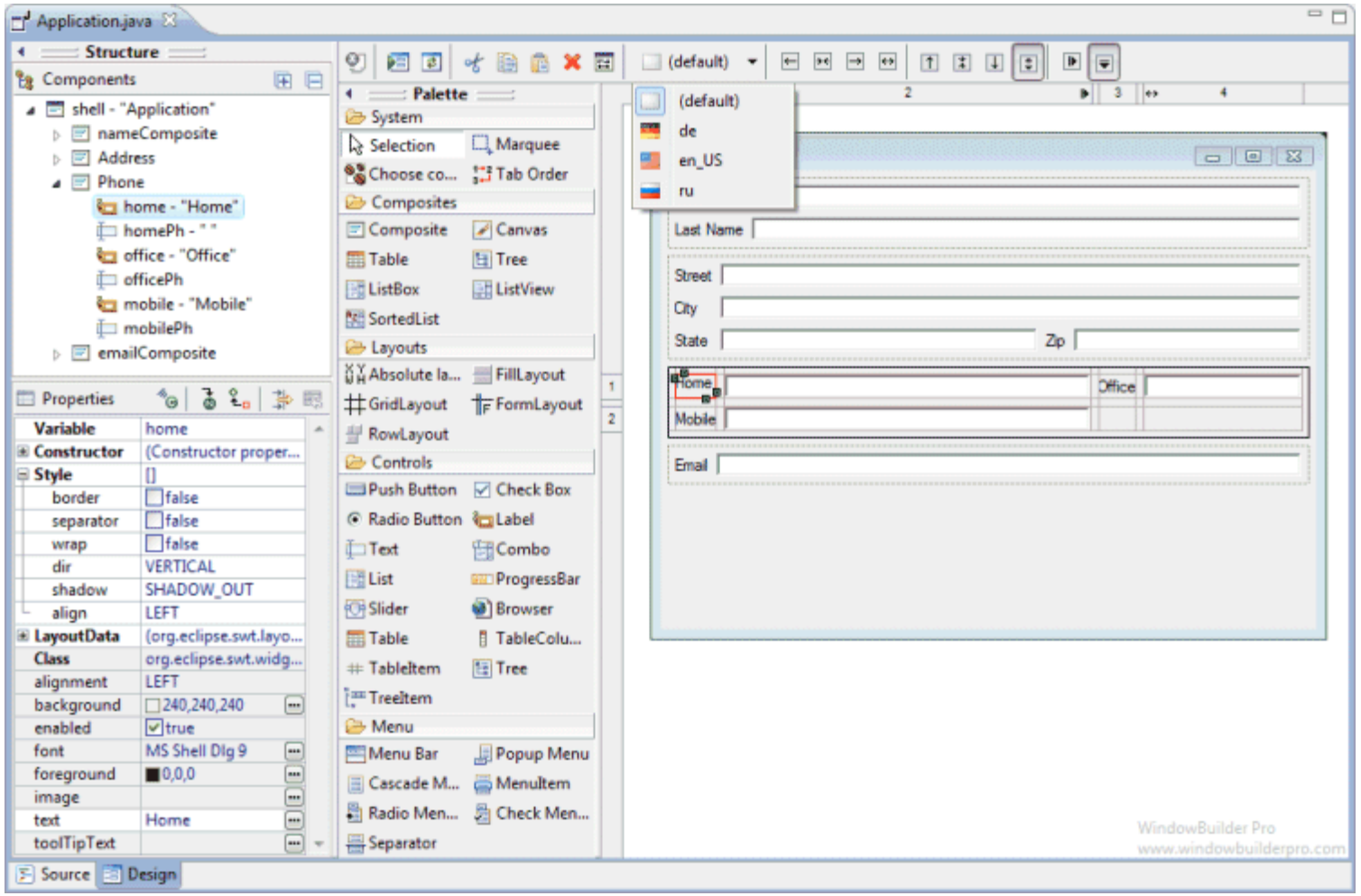
# Google Web Toolkit

- GWT SDK
- Java API libraries
- Compiler
- Development server

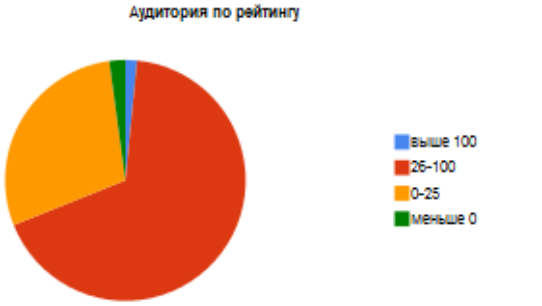
- Plugin for Eclipse
- IDE support for GWT

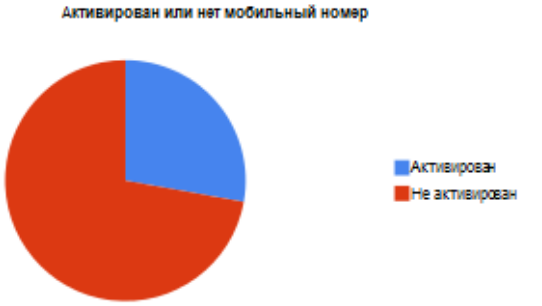
- GWT Designer

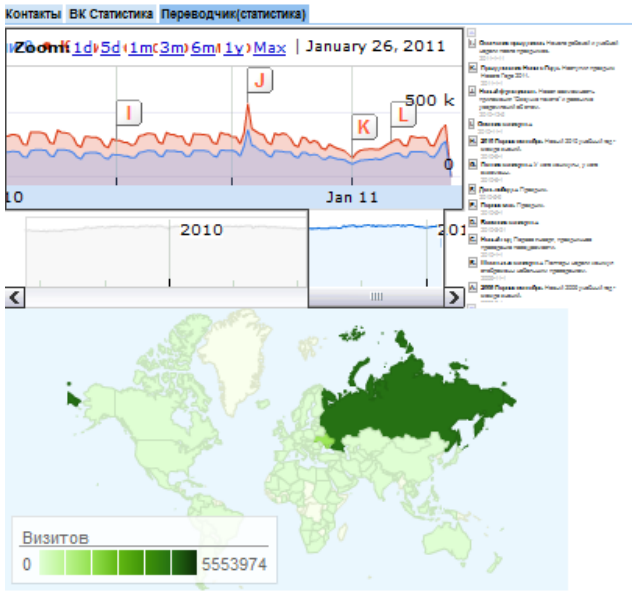
# GWT Designer



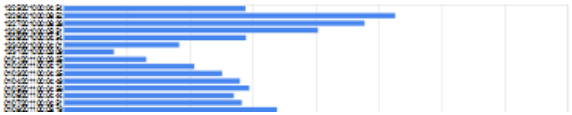
# stats.you-ra.info





# Tornado

- non-blocking and uses epoll
- can handle 1000s of simultaneous standing connections
- ideal for real-time web services

Modules:

- web - The web framework on which FriendFeed is built. web incorporates most of the important features of Tornado
- escape - XHTML, JSON, and URL encoding/decoding methods
- database - A simple wrapper around MySQLdb to make MySQL easier to use
- template - A Python-based web templating language
- httpclient - A non-blocking HTTP client designed to work with web and httpserver
- auth - Implementation of third party authentication and authorization schemes (Google OpenID/OAuth, Facebook Platform, Yahoo BBAuth, FriendFeed OpenID/OAuth, Twitter OAuth)
- locale - Localization/translation support
- options - Command line and config file parsing, optimized for server environments

# Twisted is an event-driven networking engine

- Twisted projects variously support TCP, UDP, SSL/TLS, multicast, Unix sockets, a large number of protocols (including HTTP, NNTP, IMAP, SSH, IRC, FTP, and others), and much more.

```
from twisted.internet.protocol import Protocol, Factory
from twisted.internet import reactor

class Echo(Protocol):
    def dataReceived(self, data):
        """
        As soon as any data is received, write it back.
        """
        self.transport.write(data)

def main():
    f = Factory()
    f.protocol = Echo
    reactor.listenTCP(8000, f)
    reactor.run()
```

Спасибо!