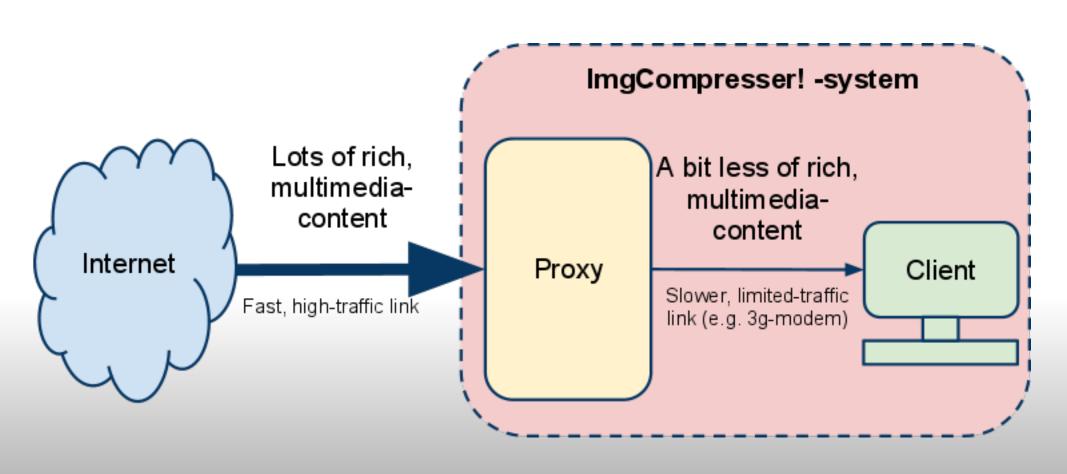


Eurecom WebTech -project presentation

Eetu Korhonen, http://eeko.iki.fi/

What is it?

Web-accelerator, content-filter, bandwidth-conservation...



Two components

The compressing-proxy

- Python script
- Server running a detector
 & rescaler for images
- Running a control-service usable by the browser plugin

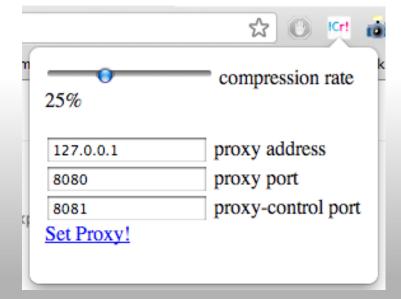
```
gayBot-9600:compressproxy eekoo$
gayBot-9600:compressproxy eekoo$
gayBot-9600:compressproxy eekoo$
// Compressproxy.py
/System/Library/Frameworks/Python.framework/Versions/2.6/Extras/lib/
DeprecationWarning: the md5 module is deprecated; use hashlib insteinport itertools, md5

Usage: ./compressproxy.py [proxyport] [controlport]
Defaults to 8080 and 8081
Example: ./compressproxy.py 8888 8889

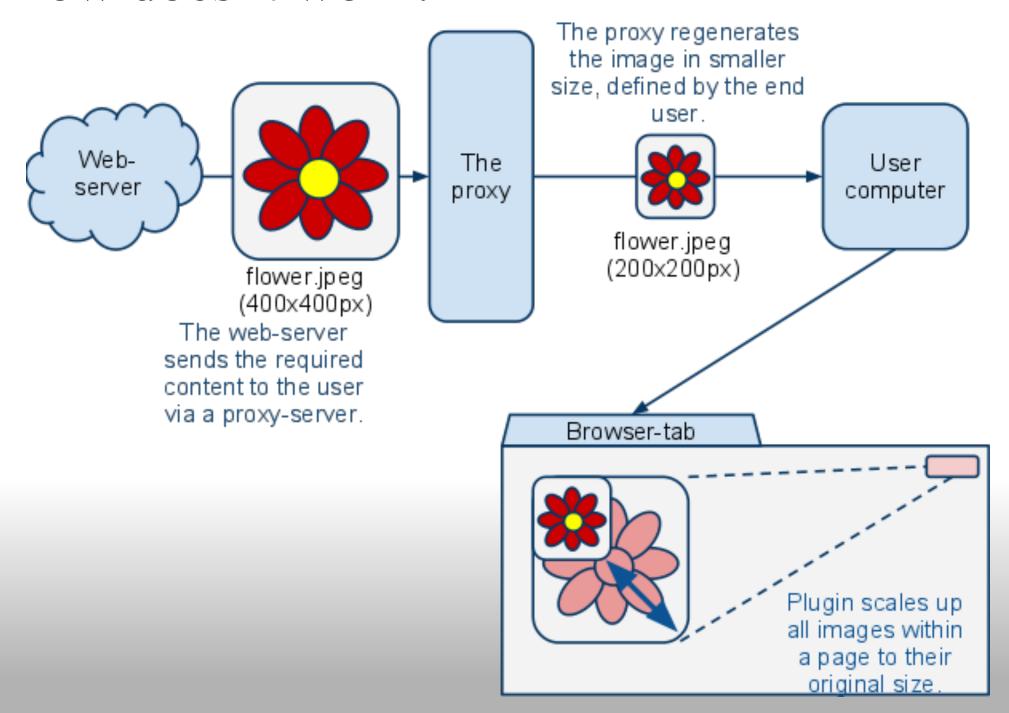
Starting proxy-service at 8080
Starting control-service at 8081
```

The browser-plugin

- Google-chrome extension
- Controls the behaviour of the proxy
- Post-processes the images sent to user by the proxy



How does it work?



How does it look?

http://eeko.iki.fi/~eeko/imgproxy/

The sample page takes around 538 KB to download



A sample page for ImgCompresser plugin+proxy

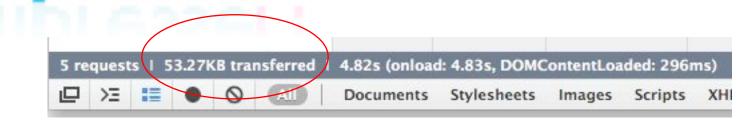
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. D dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cu proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



How does it look?

http://eeko.iki.fi/~eeko/imgproxy/

 With 25% "compression", the transfer-amount has reduced to nearly 1/10th of original while retaining fair usability



A sample page for ImgCompresser plugin+proxy

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et do enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequa dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat proident, sunt in culpa qui officia deserunt mollit anim id est laborum.



Side by side

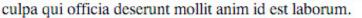




le page for ImgCompresser plugin+proxy

A sample page for ImgCompress

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod lor sit amet, consectetur adipisicing elit, sed do eiusmod lor sit amet, consectetur adipisicing elit, sed do eiusmod laboris nisi ut aliquip ex ea commodo consequat. Dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat curoident, sunt in culpa qui officia deserunt mollit anim id est laborum.







The Demo

Other uses

In a low-fi browser where the bandwidth and computing resources are an issue.

- Developing countries, dumbphones
- Opera Mini uses similar content-preprocessing technology



Other uses

Using within a reverse-proxy to tailor content for different clients in real-time image-rich applications

- Such as http://www.canv.as/
- Reduce the load and complexity of the core-service
- The content-script to post-process images can be within the site instead of browser

Thank you

Project documentation and slides: http://eeko.iki.fi/~eeko/webtech/

Project source-codes:

http://github.com/Eeko/resizer_proxy