
Subject: Re: Some projects are ready to become open-source

Posted by [Mindtraveller](#) on Tue, 06 May 2014 22:16:06 GMT

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Utils - a minified part of utility package from one of my projects. It is not currently compiled and linked cross-platform. Actually it is not intended to be standalone package, but rather a bunch of possibly useful functions using:

- ICU (<http://site.icu-project.org/>) a standard Linux/Unix library also present for Windows (may be even inside standard libs, I don't remember exactly).
- iconv a standard Linux/Unix library for charset conversion
- embedded htmlcxx library for html/css parsing

Interesting functions:

Encrypt/Decrypt - very simple AESStream wrapper for small strings conversion. I propose adding them to AESStream itself.

ToJSTime/FromJSTime - very simple conversion from/to javascript "integer" Time/Date representation.

ConvertTextToUtf8 - ICU's charset detector result routed to iconv library making output text with utf-8 charset. My tests introduced excellent results for big texts (about 1 KB) and rather good results for texts above 100 bytes. If text is about ~10 bytes, the charset detection generally results in wrong detected charsets.

SafeguardPlain - web-oriented function to convert text added by user to make it 100% safe before embedding it to web page.

SafeguardHTML - web-oriented function to convert html to make it 100% safe before embedding it to web page. The only way of doing it is parsing input html (with htmlcxx), then filtering it (with HTMLFilter class), and then reconstructing resulting html back again. You may of course take htmlcxx library from this package and use it the way you want (using SafeguardHTML as an example of htmlcxx usage).

ParseFormData - is a function to parse input form-data from socket (actually it is little outdated, but it is no problem rewriting it for TcpSocket). The main idea behind this function is to create streaming solution for downloading large files from Internet to the drive. So ordinary form fields are added to fields variable, and files are streamed directly to file system using file names from files variable. Very useful when working with big data in servers.
