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Subject: HtmlTools package for U++

Posted by [Oblivion](#) on Sun, 18 Jun 2023 23:22:03 GMT

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Hi,

I am happy to announce that U++ is about to gain something U++ users have been long missing:  
Aa very powerful html parser/sanitizer/prettifier: HtmlTools package. 8)

This package is basically a libtidy bindings/wrapper, bringing the power and performance of one of the oldest and widely used html library to U++.

You can find the initial version of the source and example code here.

#### DONE:

- + Implemented HtmlNode class. (A modification of Upp::XmlNode class)
- + Implemented TidyHtmlParser, TidyHtmlParser::Node classes for traversing the document tree.
- + Implemented ParseHtml and RepairHtml convenience functions.
- + Added a minimal code example, parsing the legacy example.com.

#### TODO:

- Enable U++'s memory managers in libtidy.
- Add U++ callbacks for libtidy's message queue.
- Refactor buffer allocation code.
- Add Topic++ documentation.
- Add more example code (both console & gui).
- Test the Windows build.
- Cosmetics.

The base example, downloading and parsing the example.com

```
#include <Core/Core.h>
#include <Core/SSL/SSL.h>
#include <HtmlTools/HtmlTools.h>
```

```
using namespace Upp;
```

```
void PrintHtml(const HtmlNode& node)
{
    for(const HtmlNode& q : node) {
        if(q.IsTag("title"))
            Cout() << q.GatherText();
        else
```

```
if(q.IsTag("p"))
    Cout() << q.GatherText();
else
    if(q.IsTag("a"))
        Cout() << "For more information, see: " << q.Attr(0) << EOL;
    PrintHtml(q);
}
```

CONSOLE\_APP\_MAIN

```
{
    StdLogSetup(LOG_FILE);
    HtmlNode n = ParseHtml(
        HttpRequest("https://example.com/").Execute(),
        { { "wrap", 96 } }); // libtidy options...
    PrintHtml(n);
}
```

Note that the package is still experimental.

Feedbacks are welcome.

Enjoy!

Best regards,  
Oblivion

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Subject: Re: HtmlTools package for U++  
Posted by [Oblivion](#) on Tue, 20 Jun 2023 21:48:08 GMT  
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Hi,

HtmlTools package (libtidy wrapper for++) is updated. Hopefully it will be available on UppHub very soon.

It now compiles on Windows too. The library is configured to be statically linked,

API docs are added.

Best regards,  
Oblivion

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Subject: Re: HtmlTools package for U++  
Posted by [Oblivion](#) on Tue, 27 Jun 2023 10:43:46 GMT  
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Hi,

HtmlTools, a libtidy wrapper for U++, is updated:

- + U++'s memory managers are enabled.
- + TidyHtmlParser::Node class gained ToHtmlNode() method. Allows any node to be converted to HtmlNode class.
- + Package is also uploaded to upp-components repo.

Best regards,  
Oblivion

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Subject: Re: HtmlTools package for U++  
Posted by [Mountacir](#) on Sat, 01 Jul 2023 08:42:45 GMT  
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Hi,

I tried to make something similar a couple of months ago, i was aiming for a web scraping plugin like Beautiful Soup. I managed to show amazon.com on XmlView :) but my code was such a miss i never got the courage to publish it.

Thank you very much Oblivion for this package.

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