

Manos

Web apps for the lazy hacker

Jérémie Laval



<http://blog.neteril.org>



http://twitter.com/jeremie_laval

IRC

garuma on #manos @ GIMPNet.org

Background

- Doing HTML pages when I was young
- Sprinkled ugly PHP to make it dynamic
- `<Alarm sound ringing />`
- Moved on to C# / desktop coding



Background

Disclaimer

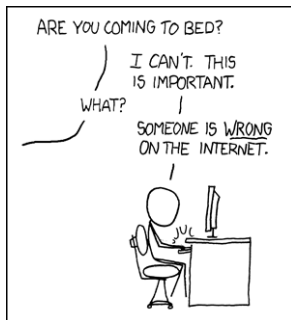
But wait, web has gotten better

- HTML 5, is that a title?
- CSS 3, non-designer best friend
- Javascript, more than animated cursor

What about .NET web application frameworks?

Once upon a time...

Someone was wrong on the Internet



They created

ASP

(Hint: VBScript as a default language)

Hmmm...

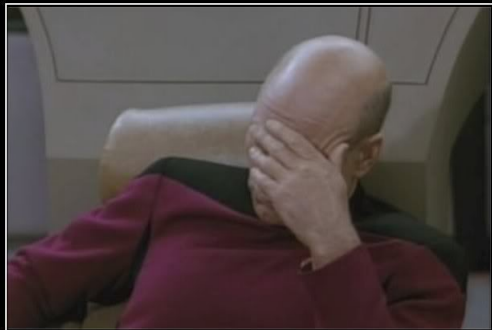


Tried to fix it

The ASP.NET logo is displayed in the center of the slide. The text "ASP.NET" is rendered in a black, sans-serif font. The ".NET" portion is stylized, with the letters "N", "E", and "T" overlapping and containing a colorful gradient of blue, green, and yellow.

```
<asp:Menu ID="NavigationMenu" runat="server" CssClass="menu" EnableViewState="true"
    IncludeStyleBlock="false" Orientation="Horizontal">
  <Items>
    <asp:MenuItem NavigateUrl="/Default.aspx" Text="Home" />
    <asp:MenuItem NavigateUrl="/About.aspx" Text="About" />
    <asp:MenuItem NavigateUrl="/Students.aspx" Text="Students">
      <asp:MenuItem NavigateUrl="/StudentsAdd.aspx" Text="Add Students" />
    </asp:MenuItem>
  </Items>
</asp:Menu>
```


Hmmm...

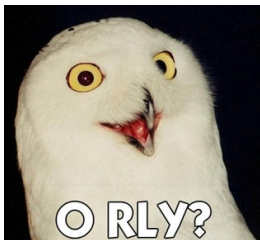


FACEPALM

Because expressing how dumb that was in words just doesn't work.

Truth told

It's apparently better today



In real (hacker) life

All too bloated

What I wanted

- KISS (Keep It Simple Stupid)
- Let me code my way
- Integrate with existing stuff

What I really need is a lib that talks HTTP

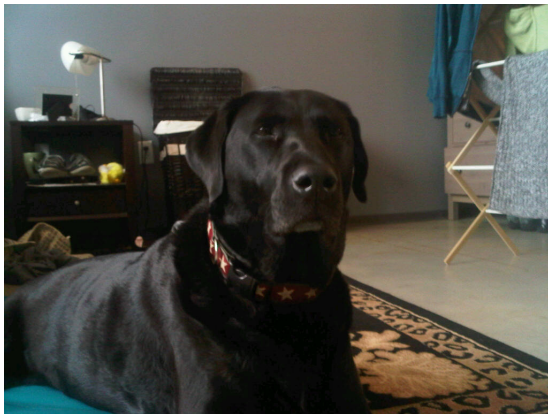
But a bit more sophisticated than `HttpListener`

But have no fear

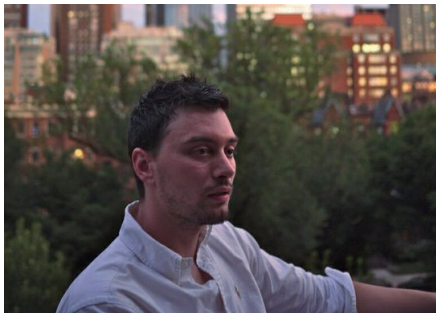
A hero came



Often pictured as



But for real



(Jackson Harper, Manos creator and cartel manager during his free time)

What's Manos in the end

- Standalone HTTP server
- Evented IO
- Parse and produce plain old HTTP
- Not tied to any content/template framework
- Code just with C# and a couple of attributes

Bootstrapping

How it all begun

```
$ manos -i apachai
  initing: apachai
$ manos -b
  COMPILING SOLUTION: '0' '/home/jeremie/mono/manostest/apachai'
  /usr/local/lib/manos/Manos.dll
$ cd apachai
$ manos -s
  Running apachai.apachai on port 8080.
```

Setting up handlers

Simply getting a root page

```
[Route ("/")]
public void Index (IManosContext ctx)
{
    Log.Info ("Woohoo, someone visited our website");
    ctx.Response.SendFile (Path.Combine ("Templates", "base.html"));
    ctx.Response.End ();
}
```

Setting up handlers

Route handling delegated to external modules

```
public Apachei ()
{
    Route ("/Content/", (staticContent = new StaticContentModule ("Content")));
    Route ("/Pictures/", new PictureContentModule ());
    AddPipe (new Manos.Util.AccessLogger ("access.log"));
}
```

Giving back JSON

Nothing special really

```
[Route ("/visits")]
public void Visits (IManosContext ctx)
{
    var cookie = ctx.Request.Cookies.Get ("foobar-apachai");
    if (string.IsNullOrEmpty (cookie)) {
        ctx.Response.StatusCode = 404;
        ctx.Response.End ();
    } else {
        var counter = visits[cookie];
        ctx.Response.End (string.Format ("{{ \"count\" : {0} }}", counter));
    }
}
```

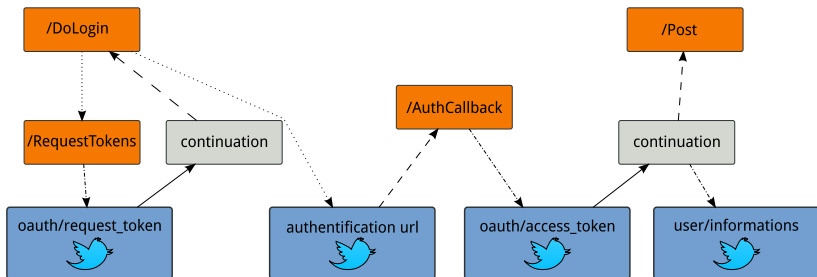
What's Apachai

Picture uploading for the rest of us

<http://apch.fr>

- Leverage TrollStation (Twitter) and Pinta (Effects)
- TagLib# for metadata handling
- JSON and AJAX driven
- Redis backed
- <https://github.com/garuma/apachai>

Future driven processing



Releasing season

- Manos 0.1.2 released!
 - <https://github.com/jacksonh/manos/tarball/v0.1.2>
- Apachai 1.0 released!
 - <https://github.com/garuma/apachai/tarball/1.0>