

# Hakyll

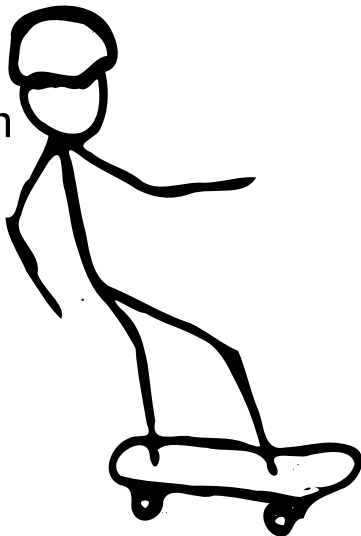
## HaskellerZ

Jasper Van der Jeugt

Oct 31, 2013

# Hello!

My name is Jasper  
From Ghent, Belgium  
I write Haskell  
Tsuru Capital  
Erudify  
@jaspervdj  
jaspervdj.be



# Overview

## **Static site generators?**

Hakyll

Demo

# Static site generators?

Drupal™



WORDPRESS

# Static site generators?

Ace acrylamid Blacksmith Blogofile Bonsai  
Cactus Chisel coleslaw Composer cyrax  
Deplot Fairytale Floyd FMPP Frank fugitive  
gostatic Graze **Hakyll** Hammer Hastie Hobix  
Hyde Jekyll jinjet jkl Korma Letterpress  
Machined Magneto Markbox Markdoc  
Middleman mynt nanoc Nikola Pagegen  
Pelican Petrify Phrozn PieCrust Pilcrow Pith  
poole Punch Quill...

# Static site generators?

**posts/haskellz.md:**

---

title: Talk at HaskellZ

---

I am **\*\*so\*\*** excited!

# Static site generators?

**templates/post.html:**

```
<h1>$title$</h1>
```

```
<div>$body$</div>
```

# Static site generators?

`posts/haskellerz.html:`

```
<h1>Talk at HaskellerZ!</h1>
```

```
<div>
```

```
  I am
```

```
  <strong>so</strong>
```

```
  excited!
```

```
</div>
```



# Static site generators?

## **Advantage: super fast**

One `sendfile()` vs. a few database queries and rendering the final result

# Static site generators?

## **Advantage: no vulnerabilities**

```
curl
```

```
http://site.com/archive.php\  
?query=DELETE+FROM+...
```

# Static site generators?

**Advantage: no host support needed**

Apache

FTP

Python

MySQL

memcached

Apache

FTP

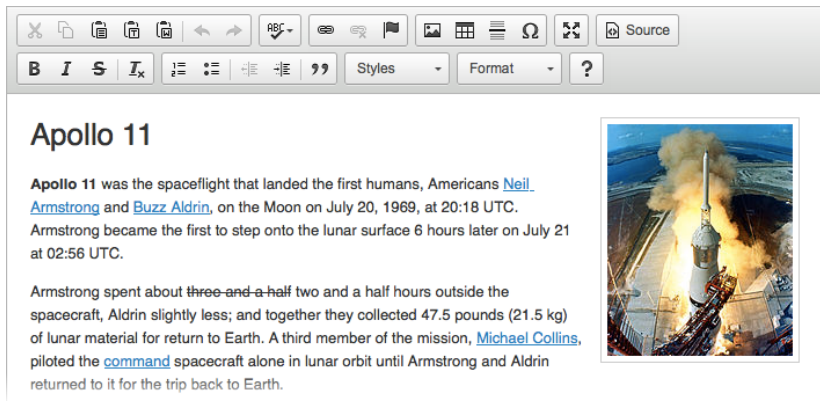
# Static site generators?

## **Advantage: use version control**

```
$ git log
72fb81 Add WebSockets blogpost
5ebaf9 Typo fixes
f93858 Quick CSS fix
2913bb Update homepage
...
```

# Static site generators?

**Advantage: use your favorite text editor**




The screenshot shows a web editor interface with a top toolbar containing icons for undo, redo, bold, italic, strikethrough, bulleted list, numbered list, indent, outdent, quote, styles, format, and source. Below the toolbar is a text editor area with the following content:

## Apollo 11

**Apollo 11** was the spaceflight that landed the first humans, Americans [Neil Armstrong](#) and [Buzz Aldrin](#), on the Moon on July 20, 1969, at 20:18 UTC. Armstrong became the first to step onto the lunar surface 6 hours later on July 21 at 02:56 UTC.

Armstrong spent about ~~three and a half~~ two and a half hours outside the spacecraft, Aldrin slightly less; and together they collected 47.5 pounds (21.5 kg) of lunar material for return to Earth. A third member of the mission, [Michael Collins](#), piloted the [command](#) spacecraft alone in lunar orbit until Armstrong and Aldrin returned to it for the trip back to Earth.



# Overview

Static site generators?

**Hakyll**

Demo

# Hakyll

4 years old now

Current version 4.X

Very configurable

Haskell!

# Hakyll

## XMonad-like configuration:

```
match "*.markdown" $ do
  route    $ setExtension "html"
  compile $ pandocCompiler
  >>= relativizeUrls
```



# Hakyll

## **Flexible**

No fixed file structure

Use any Haskell library

Support for shelling out to other utilities

File Edit View History Bookmarks Tools Help

Blog de Demo... Austin Rochfo... Work for Pizza Home Hello! YBlog - Home variadic.me - i...

blog.demotera.com



## AtikTeam Van, gestion de projets et collaboration

par AtikTeam, le mardi 5 mars 2013, dans la rubrique AtikTeam



AtikTeam Van, première mise à jour de l'année 2013 introduit une nouvelle fonctionnalité majeure, un nouveau module optionnel et de nombreuses améliorations de fond.

### Tags des projets

Le système de classement par tags est omniprésent dans AtikTeam. Il permet d'associer rapidement des mots-defs aux documents, et de les retrouver grâce à un filtre incrémental. Ce système de tag vient d'être étendu aux projets, pour permettre de classer et trier rapidement les projets eux-mêmes. Statuts, priorités, responsables, zones géographiques ... à vous de choisir quels seront les notions clefs pour classer vos projets.

Informations Apparence Modules Membres **Tags** Images Équipes

Tags appliqués à ce projet

Commercial Communication Externe Gestion Infrastructure Logiciel Technique Veille

### À propos

Blog technique de Demotera, cabinet d'ingénierie informatique, éditeur du logiciel en ligne de gestion de projets AtikTeam.

### Navigation

Algo **AtikTeam** Clients Css  
Demotera Haskell LaTeX Newsletter  
Presse Quiz Rennes RubyOnRails  
Tips

[voir tous les articles →](#)

### Vos réactions

**aero67** Le planning serait un premier pas, mais la liste des tâches des 5 individus...  
Nouveaux concepts pour l'outil de gestion de projet en ligne  
AtikTeam · 8 months ago

## Blog

Home  
Archive  
Contact  
CV  
Stuff

## Links

GitHub  
Twitter  
LinkedIn  
Flickr

## About me

Hi! I'm Jasper Van der Jeugt. I study Computer Science at [Ghent University](#). I was born in 1990, and I'm currently residing in Lokeren & Ghent, Belgium. Did I tell you I like to make stuff? I love to make stuff! This is why I'm very active in [open source development](#), mainly centered around [Haskell](#).



This is a personal, mostly technical blog on various topics including (but certainly not limited to) functional programming languages, web development, coding and scripting.

Apart from that, I have a very broad taste in [music](#) and [movies](#), and I also enjoy running and longboarding.

## Recent blogposts

- ♦ ["Hakyll 4.0"](#) – *January 16, 2013*  
New major release of the Haskell static site generator
- ♦ ["Skateboarding and the Belgian police"](#) – *December 18, 2012*



Posts Running About Source Twitter

Search



28 MARCH 2013 SCALA | HAKYLL | PANDOC

## Better Scala syntax highlighting for Hakyll

I chose [Hakyll](#) over other static site generators for this blog in part because Hakyll is built on [Pandoc](#), John MacFarlane's fantastic document conversion library. Unfortunately Pandoc's syntax highlighting for Scala is incredibly bad:

```
import scala.language.experimental.macros
import scala.reflect.macros.Context

object TupleExample {
  def fill[A](arity: Int)(a: A): Product = macro fill_impl[A]
  def fill_impl[A](c: Context)(arity: c.Expr[Int])(a: c.Expr[A]) = {
    import c.universe._


    arity.tree match {
      case Literal(Constant(n: Int)) if n < 23 => c.Expr(
        Apply(Select(Ident("Tuple" + n.toString), "apply"), List.fill(n)(a.tree))
      )
      // Not going to worry about not getting what we expect.
    }
  }
}
```

File Edit View History Bookmarks Tools Help

Austin Rochford - Home Work for Pizza V variadic.me - index

variadic.me

# variadic.me



## Latest posts


- [Solving Problems Using Data Structures](#) - March 6, 2013
- [You should let it crash](#) - October 30, 2012
- [Maybe - Adding an Error Message](#) - October 26, 2012
- [Maybe - The Bane of Null](#) - October 25, 2012
- [Reflection as a tool for generic solutions](#) - October 17, 2012

©2012

File Edit View History Bookmarks Tools Help


jaspervdj - Ho... Austin Rochfo... Work for Pizza Web2day 2... Home Hello! YBlog - Home variadic.me - i...

www.web2day-nantes.org




**web2day**  
DIGITAL FESTIVAL  
NANTES, MAY 16<sup>th</sup> & 17<sup>th</sup>, 2013

SPEAKERS



PROGRAMME




## PRÉSENTATION

La 5ème édition du Web2day, Le festival du numérique, aura lieu les 16 et 17 mai 2013 à Nantes!

Au menu - 2 jours de conférences, de débats et d'animations autour des usages du web et des innovations qui font l'actualité. Avec près de 80 speakers, nous parlerons de startups, mobile design, objet connectés, médias, économie collaborative...

Plus de 1000 personnes sont attendues, mêlant entrepreneurs, personnalités et professionnels du web. Un concours de startups, un showroom et des soirées seront aussi de la partie.



# Overview

Static site generators?

Hakyll

**Demo**

# Questions?