#### BlazeHtml

## Design of a blazingly fast html combinator library

#### Hello!

My name is jasper Studying BSc CS @ UGent I like to make things

> @jaspervdj jaspervdj.be

#### Introduction

A web app usually has 3 important layers:

- web application server
- data storage layer
- html generation layer

title style div head body

htm1

#### Trees in Haskell

```
> data Tree
> = Node Tree Tree
> | Empty
```

#### Html is a tree

This makes writing an Html generation library trivial in Haskell.

## Le't write a library!

```
> type Attribute =
> (String, String)
> type Tag = String
```

## Le't write a library!

```
> data Html
   = Node Tag [Attribute]
           Htm1
      Leaf Tag [Attribute]
    Concat [Html]
    | Text String
    deriving (Show)
```



## Hackage quick look

- html
- xhtml
- xhtml-combinators
- moe
- xhtml1



# We need to be a second of the second of the

## s/String/Data.Text/g

- A first good step

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```
text1 `append` text2
```

## s/String/Data.Text/g

- A first good step

text1 `append` text2

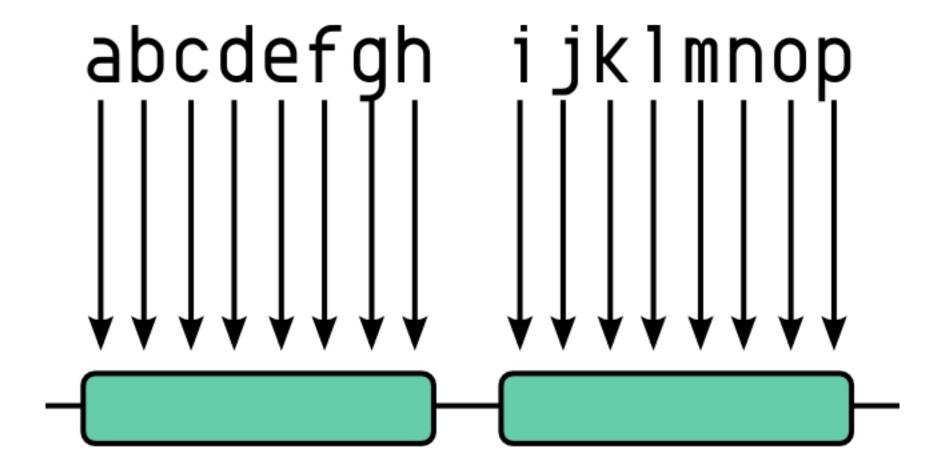
BAD BAD BAD

## No inspiration?

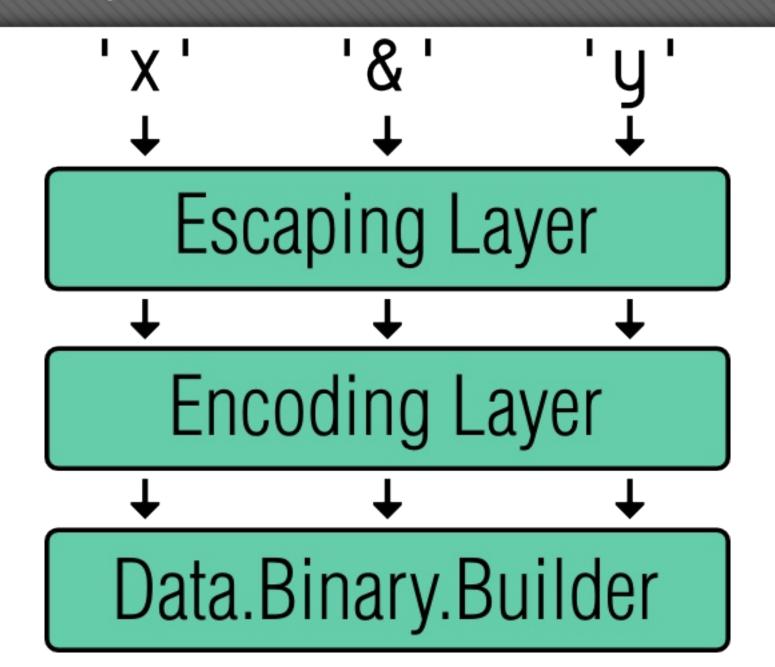
Just shamelessly steal ideas from other Haskell projects.



## Builder Monoid



## 3-layer approach







## Builder Fork

```
fromRawAscii7Char :: Char
-> Builder
```

## Builder Fork

#### Additional function:

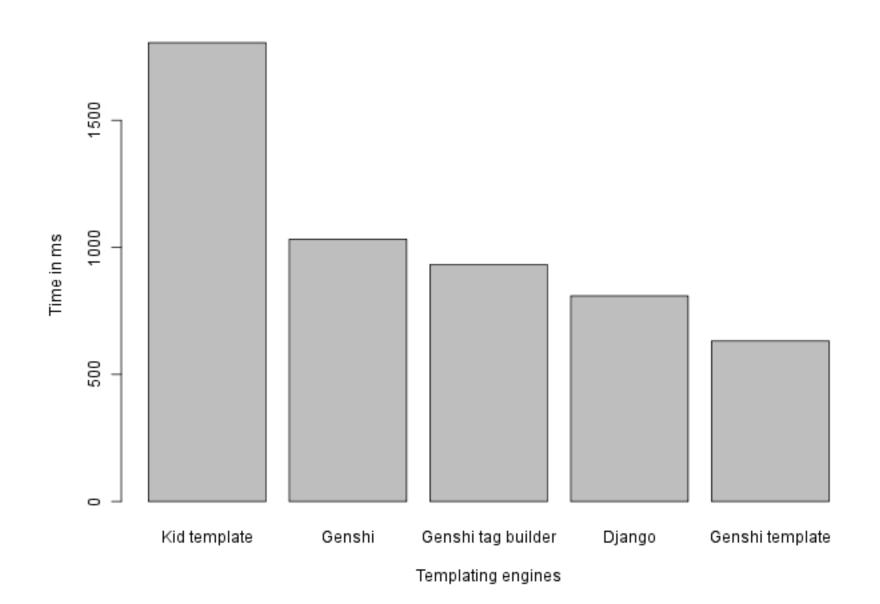
```
> fromUnsafeWrite
```

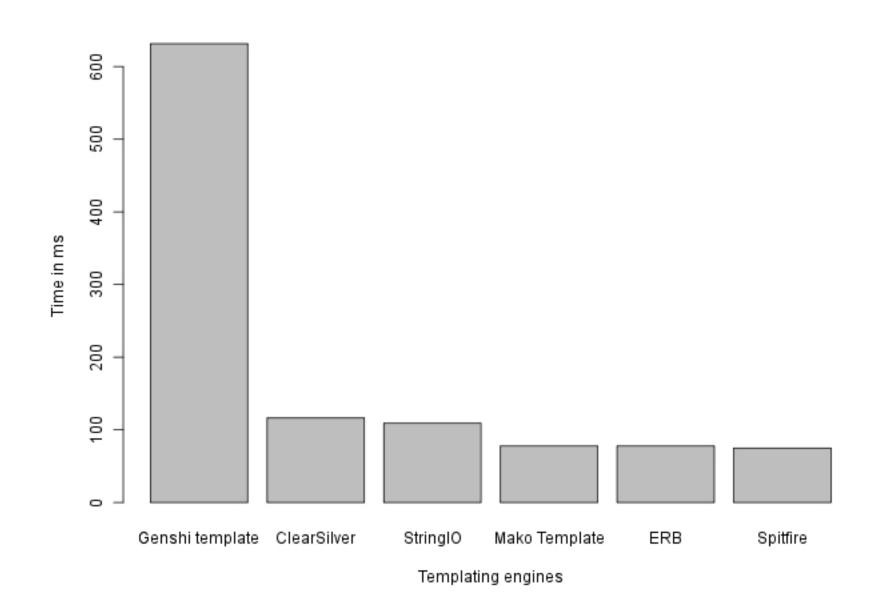
```
> :: Int
```

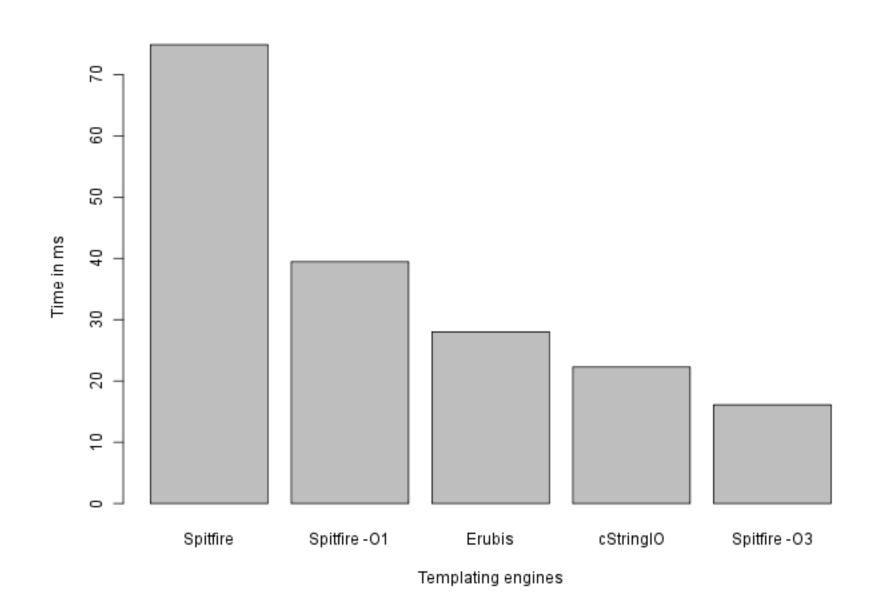
```
> -> (Ptr Word8
```

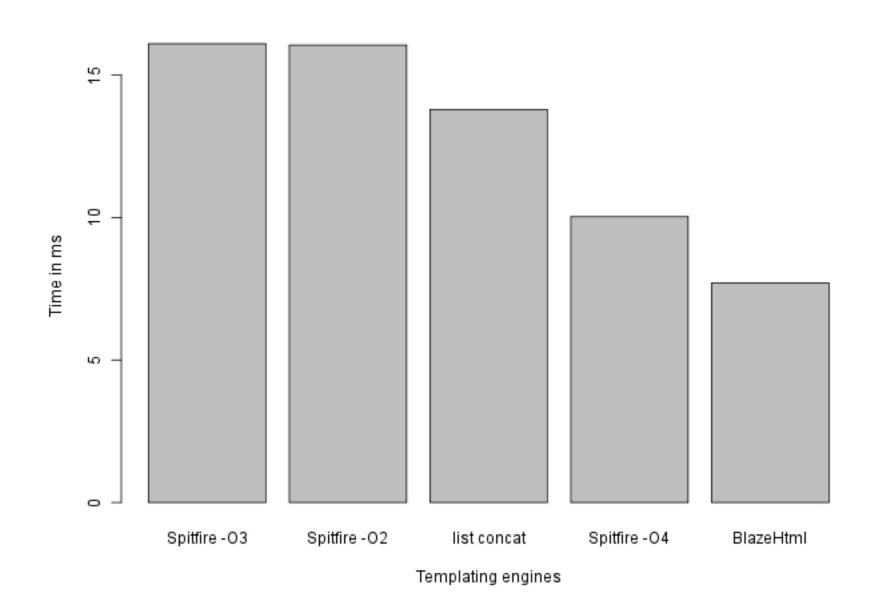
```
> -> IO ())
```

> -> Builder









#### The future

Lots still to do until we have a stable, fast, awesome version.

For the curious: github.com/jaspervdj/BlazeHtml

## Questions?

