Препроцесори

HTML

```html
<!DOCTYPE html><html><head><meta charset="UTF-8"><meta content="width=device-width, minimum-scale=1, maximum-scale=1" name="viewport"><title>FTBN</title><link
href="http://fonts.googleapis.com/css?family=PT+Serif:400,700,400italic,700italic&amp;subset=cyrillic,latin" rel="stylesheet" type="text/css"><link rel="stylesheet"
href="/assets/#/proxima/stylesheet.css"><link rel="stylesheet" href="/assets//ftbn.min.css"><script src="/assets//jquery-1.11.0.min.js"></script><script src="/assets/ftbn.min.js">
</script><!--[if lt IE 9]><script src="/assets/ie-js/html5.js"></script><script src="/assets/ie-js/respond.min.js"></script><script src="/assets/http://ie7-
js.googlecode.com/svn/version/2.1(beta4)/IE9.js"></script><!--<![endif]--><link rel="apple-touch-icon" sizes="57x57" href="/assets/i/favicon/apple-touch-icon-57x57.png"><link
rel="apple-touch-icon" sizes="60x60" href="/assets/i/favicon/apple-touch-icon-60x60.png"><link rel="apple-touch-icon" sizes="72x72" href="/assets/i/favicon/apple-touch-icon-
72x72.png"><link rel="apple-touch-icon" sizes="76x76" href="/assets/i/favicon/apple-touch-icon-76x76.png"><link rel="apple-touch-icon" sizes="114x114"
href="/assets/i/favicon/apple-touch-icon-114x114.png"><link rel="apple-touch-icon" sizes="120x120" href="/assets/i/favicon/apple-touch-icon-120x120.png"><link rel="apple-touch-
icon" sizes="144x144" href="/assets/i/favicon/apple-touch-icon-144x144.png"><link rel="apple-touch-icon" sizes="152x152" href="/assets/i/favicon/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/assets/i/favicon/apple-touch-icon-180x180.png"><link rel="icon" type="image/png" href="/assets/i/favicon/favicon-32x32.png">
<link rel="icon" type="image/png" href="/assets/i/favicon/android-chrome-192x192.png"><link rel="icon" type="image/png" href="/assets/i/favicon/favicon-96x96.png"><link rel="icon"
type="image/png" href="/assets/i/favicon/favicon-16x16.png"><link rel="manifest" href="/assets/i/favicon/manifest.json"><meta name="msapplication-TileColor" content="#da532c">
<meta name="msapplication-TileImage" content="/assets/i/favicon/mstile-144x144.png"><meta name="theme-color" content="#ffffff"></head><body><div id="fb-root"></div><script>
(function(d, s, id) { var js, fjs = d.getElementsByTagName(s)[0]; if (d.getElementById(id)) return; js = d.createElement(s); js.id = id; js.src =
"//connect.facebook.net/ru_RU/sdk.js#xfbml=1&version=v2.3"; fjs.parentNode.insertBefore(js, fjs); }(document, 'script', 'facebook-jssdk'));</script><header class="header"><div
class="header__inner wrap"><div class="header__body"><div class="header__search"><div class="search"><form action="/" method="GET" class="search__search"><input type="text"
placeholder="Поиск" name="s" class="form-control search__field"/><button type="submit" class="icon-loupe search__button"><span class="btn btn-block search__mobile-submit">Найти
</span></button></form></div><div class="header__subscribe"><div class="subscribe"><span class="icon-subscribe subscribe__icon"></span><span
class="subscribe__label">Подпишитесь на рассылку</span></div></div><div class="header__toggle"><div class="header__toggle-icon header__toggle-icon_1"></div><div
class="header__toggle-icon header__toggle-icon_2"></div><div class="header__toggle-icon header__toggle-icon_3"></div></div><div class="header__mobile-menu"><nav role="navigation"
class="menu"><ul class="mobile-menu"><li class="mobile-menu__item"><a href="/" title="Главная" class="mobile-menu__item-link">Главная</a></li><li class="mobile-menu__item"><a
href="/" title="Спецпроекты" class="mobile-menu__item-link">Спецпроекты</a></li><li class="mobile-menu__item"><a href="/blog-olio.html" title="Блог Don Olio" class="mobile-menu__item-
link">Блог Don Olio</a></li><li class="mobile-menu__item"><a href="/wm.html" title="Wealth management" class="mobile-menu__item-link">Wealth management</a></li><li class="mobile-
menu__item"><a href="/" title="О проекте" class="mobile-menu__item-link">О проекте</a></li><li class="mobile-menu__item"><a href="/" title="Контакты" class="mobile-menu__item-
link">Контакты</a></li></ul></nav></div><div class="header__logo"><a href="/" title="FTBN"><img src="/assets/i/ftbn-logo.svg" alt="" width="155" height="44"></a></div><div
class="header__index"><ul data-ajax-template="index-list" class="index-list"><li class="index-list__item"><span class="index-list__label"></span><span class="index-list__value
index-list__value_"><span class="index-list__abs-change"></span><span class="index-list__rel-change"></span></span></li></ul></div><div class="header__toggle-search"><span
class="icon-loupe"></span></div></div><div class="header__menu"><nav role="navigation" class="menu"><ul class="main-menu"><li class="main-menu__item"><a href="/news.html"
title="Новости" class="main-menu__item-link">Новости</a></li><li class="main-menu__item"><a href="/" title="Спецпроекты" class="main-menu__item-link">Спецпроекты</a></li><li class="main-
menu__item"><a href="/blog-olio.html" title="Блог Don Olio" class="main-menu__item-link">Блог Don Olio</a></li><li class="main-menu__item"><a href="/wm.html" title="Wealth
management" class="main-menu__item-link">Wealth management</a></li></ul></nav></div></div></header><main class="main"><div class="top-posts wrap"><div class="top-posts__inner">
<div class="top-posts__body"><div class="top-posts__main"><ul class="post-list"><li class="post-list__item"><a href="/" class="post post_big"><span class="post__image"><img
src="/assets/i/post-img-1.jpg" alt=""></span><span class="post__title"><span style="background-color: #f26c4f;" class="post__label">Экономический прогноз</span><span
class="post__title-text">Microsoft рассматривает покупку социального стартапа Prismatic</span><span class="post__title-info"><span data-href="#" class="post__category">Обзор</span><span
class="post__date">5 минут назад</span></span></span><span class="post__text">Корпорация Microsoft может купить сервис поиска по социальным сетям Prismatic. Предполагаемая стоимость такой
сделки — порядка тридцати миллионов долларов.</span></a></li><li class="post-list__attached-container"><ul class="post-list post-list_attached"><li class="post-list__item"><a href="/"
class="post post_big post_middle undefined"><span class="post__image"><img src="/assets/i/post-img-2.jpg" alt=""></span><span class="post__title"><span class="post__title-
text">Tesla Motors представила отчет о финансовых результатах</span><span class="post__title-info"><span data-href="#" class="post__category">Обзор</span><span class="post__date">5 минут
назад</span></span></span><span class="post__text">Американские акции завершили порывистую сессию вторника, 28 апреля, с ростом — S&P 500 и Nasdaq Composite закрылись около достигнутых на прошлой
неделе рекордных уровней.</span></a></li><li class="post-list__item"><a href="/" class="post post_big post_middle undefined"><span class="post__image"><img src="/assets/i/post-img-
3.jpg" alt=""></span><span class="post__title"><span style="background-color: #f26d7d;" class="post__label">Недельный отчет</span><span class="post__title-text">Groupon представил
финансовый отчет</span><span class="post__title-info"><span data-href="#" class="post__category">Громкие покупки</span><span class="post__date">три часа назад</span></span></span><span
class="post__text">Компания Qualcomm объявила о проведении программы обратного выкупа акций. Кроме того, Qualcomm (QCOM) заявила о повышении квартальных дивидендов на 14% — с $0.42 до $0.48 на одну
ценную бумагу.</span></a></li><li class="post-list__item"><a href="/" class="post post_middle"><span class="post__image"><img src="/assets/i/post-img-4.jpg" alt=""></span><span
class="post__title"><span class="post__title-text">Google купила израильский стартап Timeful</span><span class="post__title-info"><span data-href="#"
class="post__category">Обзор</span><span class="post__date">5 минут назад</span></span></span><span class="post__text">Южнокорейский технологический гигант Samsung Electronics опубликовал
итоговый финансовый отчет за первый квартал.</span></a></li><li class="post-list__item"><a href="/" class="post post_middle"><span class="post__image"><img src="/assets/i/post-img-
5.jpg" alt=""></span><span class="post__title"><span style="background-color: #f26d7d;" class="post__label">Недельный отчет</span><span class="post__title-text">Qualcomm проводит
обратный выкуп акций на сумму в более чем 15 миллионов долларов</span><span class="post__title-info"><span data-href="#" class="post__category">Обзор</span><span class="post__date">5 минут
назад</span></span></span><span class="post__text">В понедельник, 27 апреля, американские фондовые индексы закрылись ниже, а S&P 500 и Nasdaq Composite отступили от установленных в пятницу
```

Проблеми

- CTRL+C, CTRL+V

- Синтаксичне сміття

- Помилки

Syntactic sugar

Доповнення синтаксису мови програмування, які не додають нових можливостей, а роблять використання мови більш зручним для людини.

DRY

HAML

http://haml.info

```
%body
  %header
    %h1 Привет, мир!
  %section
    %p Lorem ipsum dolor sit amet.
```

```
<body>
  <header>
    <h1>Привет, мир!</h1>
  </header>
  <section>
    <p>Lorem ipsum dolor sit amet.</p>
  </section>
</body>
```

```
%img{:src => "shay.jpg", :alt => "Шэй Хоу"}
%img{src: "shay.jpg", alt: "Шэй Хоу"}
%img(src="shay.jpg" alt="Шэй Хоу")
```

```
<img src="shay.jpg" alt="Шэй Хоу">
```

```
%section.feature
%section.feature.special
%section#hello
%section#hello.feature(role="region")
```

```
<section class="feature"></section>
<section class="feature special"></section>
<section id="hello"></section>
<section class="feature" id="hello" role="region"></section>
```

Pug (Jade)

https://pugjs.org/

+

- робота з даними (змінні)

- mixins

- includes + extends

- умови

- цикли

```
doctype html
html(lang="en")
  head
    title= pageTitle
    script(type='text/javascript').
      if (foo) bar(1 + 5)
  body
    h1 Pug - node template engine
    #container.col
      if youAreUsingPug
        p You are amazing
      else
        p Get on it!
      p.
        Pug is a terse and simple templating language with a
        strong focus on performance and powerful features.
```

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Pug</title>
    <script type="text/javascript">
      if (foo) bar(1 + 5)
    </script>
  </head>
  <body>
    <h1>Pug - node template engine</h1>
    <div id="container" class="col">
      <p>You are amazing</p>
      <p>Pug is a terse and simple templating language with a strong focus on performance and powerful features.</
    </div>
  </body>
</html>
```

Атрибути

```pug
a.button

.content

a#main-link

#content

a(href='google.com') Google

- var authenticated = true
body(class=authenticated ? 'authed' : 'anon')
```

```html
<a class="button"></a>

<div class="content"></div>

<a id="main-link"></a>

<div id="content"></div>

<a href="google.com">Google</a>

<body class="authed"></body>
```

```pug
doctype html
input(type='checkbox', checked)
input(type='checkbox', checked=true)
input(type='checkbox', checked=false)
input(type='checkbox', checked=true && 'checked')
```

```html
<!DOCTYPE html>
<input type="checkbox" checked>
<input type="checkbox" checked>
<input type="checkbox">
<input type="checkbox" checked="checked">
```

Case

```
- var friends = 10
case friends
  when 0
    p you have no friends
  when 1
    p you have a friend
  default
    p you have #{friends} friends
```

```
<p>you have 10 friends</p>
```

Коментарі

```
// just some paragraphs
p foo
p bar

//- will not output within markup
p foo
p bar
```

```
<!-- just some paragraphs-->
<p>foo</p>
<p>bar</p>

<p>foo</p>
<p>bar</p>
```

Умовні оператори

```
- var user = { description: 'foo bar baz' }
- var authorised = false
#user
  if user.description
    h2 Description
    p.description= user.description
  else if authorised
    h2 Description
    p.description.
      User has no description,
      why not add one...
  else
    h1 Description
    p.description User has no description
```

```
<div id="user">
  <h2>Description</h2>
  <p class="description">foo bar baz</p>
</div>
```

Extends

```
//- layout.jade
doctype html
html
  head
    block title
      title Default title
  body
    block content
```

```
//- index.jade
extends ./layout.jade

block title
  title Article Title

block content
  h1 My Article
```

```
<!doctype html>
<html>
  <head>
    <title>Article Title</title>
  </head>
  <body>
    <h1>My Article</h1>
  </body>
</html>
```

Includes

```
//- index.jade
doctype html
html
  include ./includes/head.jade
  body
    h1 My Site
    p Welcome to my super lame site.
    include ./includes/foot.jade
```

```
//- includes/head.jade
head
  title My Site
  script(src='/javascripts/jquery.js')
  script(src='/javascripts/app.js')
```

```
//- includes/foot.jade
#footer
  p Copyright (c) foobar
```

```
<!doctype html>
<html>
  <head>
    <title>My Site</title>
    <script src='/javascripts/jquery.js'></script>
    <script src='/javascripts/app.js'></script>
  </head>
  <body>
    <h1>My Site</h1>
    <p>Welcome to my super lame site.</p>
    <div id="footer">
      <p>Copyright (c) foobar</p>
    </div>
  </body>
</html>
```

Цикли

```
ul
  each val in [1, 2, 3, 4, 5]
    li= val
```

```html
<ul>
  <li>1</li>
  <li>2</li>
  <li>3</li>
  <li>4</li>
  <li>5</li>
</ul>
```

```
ul
  each val, index in ['zero', 'one', 'two']
    li= index + ': ' + val
```

```html
<ul>
  <li>0: zero</li>
  <li>1: one</li>
  <li>2: two</li>
</ul>
```

```
- var n = 0
ul
  while n < 4
    li= n++
```

```html
<ul>
  <li>0</li>
  <li>1</li>
  <li>2</li>
  <li>3</li>
</ul>
```

Mixins

```
//- Declaration
mixin list
  ul
    li foo
    li bar
    li baz
//- Use
+list
+list
```

```
<ul>
  <li>foo</li>
  <li>bar</li>
  <li>baz</li>
</ul>
<ul>
  <li>foo</li>
  <li>bar</li>
  <li>baz</li>
</ul>
```

Mixins

```
mixin pet(name)
  li.pet= name
ul
  +pet('cat')
  +pet('dog')
  +pet('pig')
```

```
<ul>
  <li class="pet">cat</li>
  <li class="pet">dog</li>
  <li class="pet">pig</li>
</ul>
```

Mixins

```pug
mixin article(title)
  .article
    .article-wrapper
      h1= title
      if block
        block
      else
        p No content provided

+article('Hello world')

+article('Hello world')
  p This is my
  p Amazing article
```

```html
<div class="article">
  <div class="article-wrapper">
    <h1>Hello world</h1>
    <p>No content provided</p>
  </div>
</div>
<div class="article">
  <div class="article-wrapper">
    <h1>Hello world</h1>
    <p>This is my</p>
    <p>Amazing article</p>
  </div>
</div>
```

Рекурсія

```
mixin menu(prefix, items, addUlClasses, addLiClasses)
    - ulClasses = [ prefix + "-menu" ]
    - if (!!addUlClasses) ulClasses.push(addUlClasses);

    ul(class=ulClasses)
        each item in items
            - liClasses = [ prefix + "-menu__item" ]
            - if (!!item.children) liClasses.push(prefix + "-menu__item-has_sub");
            - if (!!addLiClasses) liClasses.push(addLiClasses);
            - if (item.active) liClasses.push("active");

            li(class=liClasses)
                a(href=item.url, title=item.title, class="#{prefix}-menu__item-link")
                    = item.title
                    if item.badge
                        span.badge= item.badge
                if item.children
                    +menu(prefix + "-sub", item.children)

+menu(prefix, items, addUlClasses, addLiClasses)
```