

WEB 模板实现



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DevFest

- CSS

WEB 模板 -> 插值 - HTML <=> ECMAScript

- DOM

HTML / DOM

www.**jemplate**.net

handlebarsjs.com

olado/**doT**

aui/**art-template**

agentcooper/**htmltemplate-vdom**

码云 parki/**dotTemplate**

码云 powjs/**powjs**

```
<p class="bg-info">Hello [% name || 'World' | html %]!</p>
```

```
{{if user}}  
  <h2>{{user.name}}</h2>  
{{/if}}
```

```
<div>Hi {{=it.name}}!</div> <div>{{=it.age || ''}}</div>
```

```
{{#list people}}{{firstName}} {{lastName}}{{/list}}
```

```
<ul><TMPL_LOOP inner>  
  <li><TMPL_VAR title></li>  
</TMPL_LOOP></ul>
```

```
<div h-model="{user:{url:'/getUser'},users:{type:'get',url:'/getUsers'}}">  
  <a h-class="{user.type}" h-href="{user.pic}" h-text="{user.username}">xxx1</a>  
</div>
```

```
<div func="list" param="dat" if="Array.isArray(dat)" each="dat, val-x">  
  {{x.author}}:{{x.title}}  
</div>
```

CSS

sass-lang.com

lesscss.org

stylus-lang.com

postcss.org

 [powjs/powcss](https://github.com/powjs/powcss)

```
$font-stack: Helvetica, sans-serif;
```

```
$primary-color: #333;
```

```
nav {
```

```
  font: 100% $font-stack;
```

```
  color: $primary-color;
```

```
  ul {
```

```
    margin: 0;
```

```
  }
```

```
  li { display: inline-block; }
```

```
}
```

```
table
```

```
  for row in 1 2 3 4 5
```

```
    tr:nth-child({row})
```

```
      height: 10px * row
```

```
      margin 10 if row === 5
```

```
let x = [1,2,3];
```

```
each(x, (n, i) => {...}) // 嵌套占位符 ... 表示后续缩进的代码块
```

```
col-#{n}
```

```
  color: red
```

```
  if (n < 3)
```

```
    color: 1px
```

任务: CSS & HTML & DOM

- 插值 常量, 变量, 引入对象
- 嵌套 循环, 递归, 传参
- 分支 if..else

选型:

- 文本替换 轻量
- JSON 易于扩展
- 函数化 借用 ES 原生代码的威力



coding

CSS: 文本扫描

行扫描

`border : \${expr}px` ES 模板插值

let / if / each 语句转换

... 执行体占位符

层级缩进

&.class 占位符

context

HTML: DOM

浏览器/第三方工具解析

插值表达式 {{expr}} / \${expr}

语句转换 each / break / if / let / param / func

代码块伪节点 if="":!;"

遍历 DOM

形参继承 each="x, val-data"

this.\$

DOM 模板示例

```
<nav func="breadcrumb" param="paths">
  <div class="nav-wrapper">
    <div class="col s12" each="paths, val-path">
      <a href="#" class="breadcrumb">{{path}}</a>
    </div>
  </div>
</nav>
```

```
function breadcrumb(paths) {
  create('nav');
  createChild(function() {
    create('div', {class: 'nav-wrapper'});
    createChild(function(){
      create('div', {class: 'col s12'});
      eachCreateChild(paths, function(path) {
        create('a', {href: '#!', class: 'breadcrumb'});
        createChild(function(path) {
          text(path);
        });
      });
    });
  });
}
```

```
[
  [
    "NAV", 0, 0,
    [
      [
        "DIV",{ class: "nav-wrapper" }, 0,
        [
          [
            "DIV", { class: "col s12" }, function(paths) {
              this.each(paths);
            },
            [
              [
                "A", { href: "#!", class: "breadcrumb" }, 0,
                [
                  [
                    "#", 0, function(path, k, $l, $n) {
                      this.text(`${path}`);
                    }
                  ]
                ]
              ]
            ]
          ]
        ]
      ],
      "breadcrumb"
    ]
  ]
]
```

CSS 模板示例

```
let x = [1,2,3];
each(x, (n, i) => {...})
  col-${n}
    color: red
```

```
function(ctx) {
  let x = [1,2,3];
  ctx.each(x, (n, i) => {
    ctx.open(`col-${n}`);
    ctx.decl('color', 'red');
    ctx.close();
  })
}
```

```
col-1 {
  color: red;
}
col-2 {
  color: red;
}
col-3 {
  color: red;
}
```


Thank you!



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GDG Zhengzhou

DevFest

Q&A

WEB Template Action

