

The Angular Compiler

Tobias Bosch

<https://www.youtube.com/watch?v=kW9cJsvcsGo>



Inputs - Directive Metadata

```
@Directive({ selector: 'form' })  
class NgForm {...}
```

```
@Directive({ selector: '[ngModel]' })  
class NgModel { ... }
```

Template

```
<form>  
  <div>Hello {{user.name}}</div>  
  <input ngModel>  
</form>
```

Abstract Syntax Tree (AST)



Template Parser - HTML

```
{ name: 'form', children: [  
  { name: 'div', children: [  
    { text: 'Hello ' },  
    { text: '' },  
  ]},  
  { name: 'input',  
    attrs: [['ngModel', '']]  
  }  
]}
```

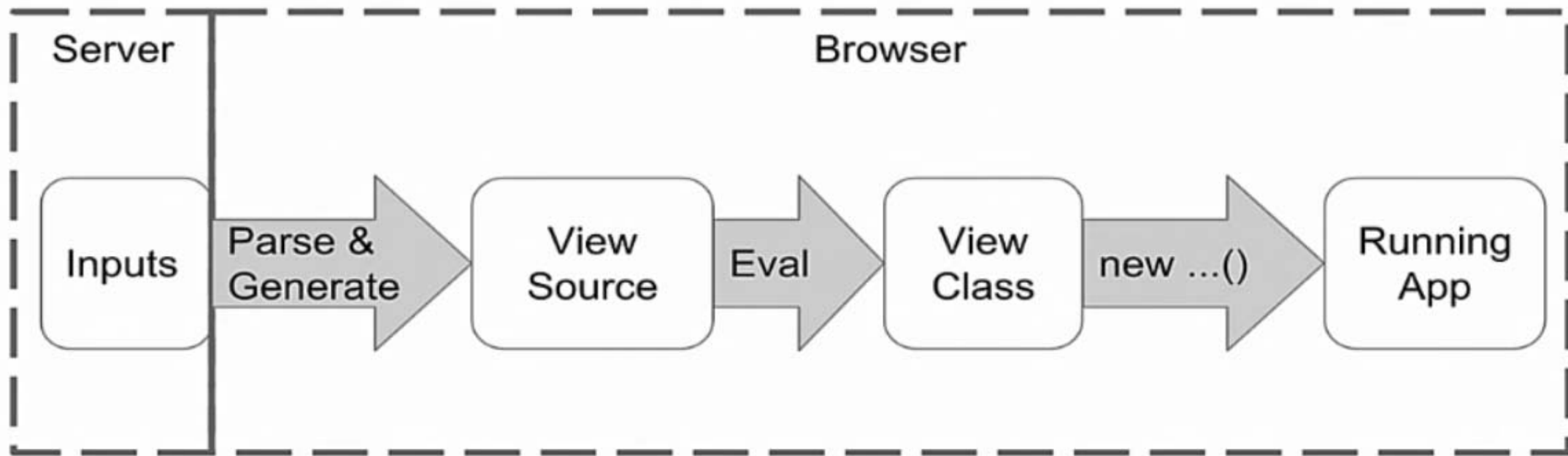
Template

```
<form>  
  <div>Hello {{user.name}}</div>  
  <input ngModel>  
</form>
```

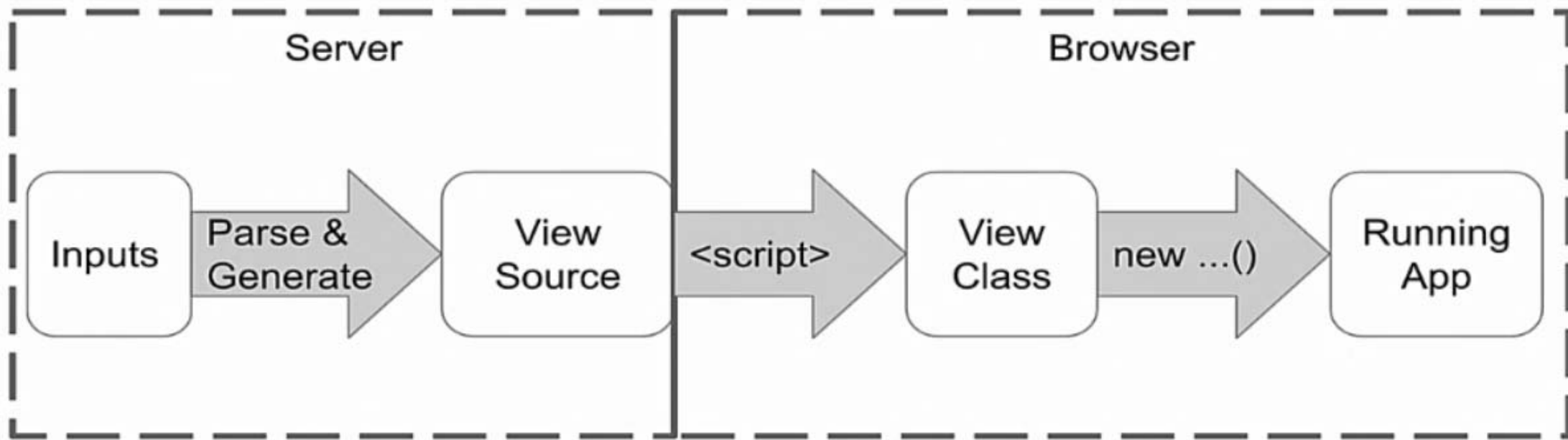
JIT Compiles to all JS (no html)



JIT Compilation - Overview



AOT Compilation





AOT compilation - TypeScript Output

