Understanding the Building Blocks



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Topics



Component

- @Input
- @Output

Directives

Pipes



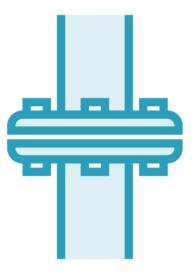
Building Blocks







Directives



Pipes

```
@Component({
   selector: 'my-component',
   templateUrl: './my.component.html',
   styleUrls: ['./my.component.scss']
})
```

```
<div myDirective>{{content}}</div>
```

```
{{contents | myPipe}}
```



Angular Basics

Angular: Getting
Started

Deborah Kurata

Angular Fundamentals

Joe Eames
Jim Cooper

Angular: First Look

John Papa



Components



Components



Modular



Atomic



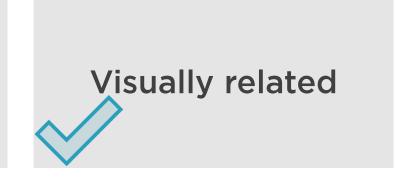
Self-contained



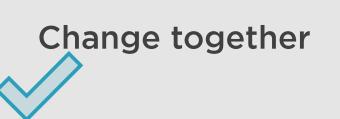
Component Boundaries

Part of the same requirements change





Routing target





@Input Decorator

```
@Input() cubicleId: string;
```

```
<person-component [cubicleId]="'AA-23'"></person-component>
```



@Input Decorator



@Output Decorator

```
@Output()
help: EventEmitter<void> = new EventEmitter<void>();
<help-banner (help)="showHelp()" *ngIf="err" ></help-banner>
```



@Output Decorator



Types of Directives



Attribute Directive





An Attribute directive changes the appearance or behavior of a DOM element



Why Directives?



Dynamic HTML



Responding to run-time environments



Quick & easy reuse



Pipes modify data for display (only)

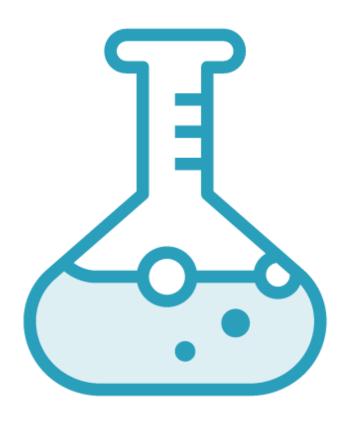


Stable



ASYNC Unwraps a value from an asynchronous primitive **Currency** Formats a number as currency using locale rules Date Formats a date according to locale rules Decimal Formats a number according to locale rules JSON Converts JSON object into JSON string LowerCase Transforms text to lowercase Percent Formats a number as a percentage according to locale rules Slice Creates a new list or string containing a subset of the elements TitleCase Transforms text to title case **UpperCase** Transforms text to uppercase

Experimental

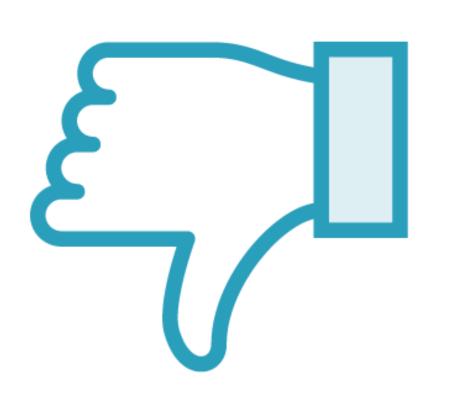


I18nPlural Maps a value to a string that pluralizes the value according to locale rules

118nSelect Generic selector that displays the string that matches the current value



(Soon to Be) Deprecated?



DeprecatedCurrency Formats a number as currency using locale rules

DeprecatedDate Formats a date according to locale rules

DeprecatedDecimal Formats a number according to
locale rules

DeprecatedPercent Formats a number as a percentage according to locale rules

All require Internationalization API:

- Not in all browsers
- May require polyfill



Things to Know



Chaining

src/app/app.component.html The chained hero's birthday is

{{ birthday | date | uppercase}}

FRIDAY, APRIL 15, 1988



Parameters

src/app/app.component.html The hero's birthday is {{ birthday | date:"MM/dd/yy" }}

04/15/88



Performance Pure vs. Impure



Key Takeaways



What makes a good Component?

@Input & @Output

Directives

Pipes

- Chaining, Parameters, Performance



Next Up



Querying the UI

