

ng2 Cheat Sheet

by addyosami via cheatography.com/33837/cs/10570/

@Component

template define template (using `)

template define template

Url

host the element in which a component

is attached to

helpers

(click) js default, propagates the click event to all the parent components. So if want to not allow this, return false

syntax

<inventory-app></inventory-app> //

<div inventory-app></div>

input: ['name'] // or

@Input() name: string // or

input: ['inside: outside'] // avoid

@Input('outside') inside: string //

// set classes conditionally

[class.selected] = "isSelected(myProd
uct)"

// (p122/644)

src="{{product.imageUrl}} // wrong
[src]="product.imageUrl" // right

best practices

use template when the view is not much & vice versa. the drawback of using template is not having syntax hightlight

using the host option is nice because it means we can encapsulate the app-article marup within our component. By using the host option, we're able to configure our host element from within the component.

isolate the data structures from the component code

law of demeter a given object should assume as little as possible about the structure or properties of other objects

best practices (cont)

fat models, skinny controllers

when building a new angular app, mockup the design & then break it down into components

normally, author wouldn't pass more than 5 arguments to a function.

cli

watchman	OSX: brew, Linux:
	embercli, Window: native Nodejs watcher
ng new app	create a new ng2 app
ng serve	run app through http built in. Window:host
	0.0.0.0

create a new component

ng generate component

component

resources

Angular Style Guide

Observer Pattern

terminology

#newtitle

is called resolve. makes the variable newtitle available to the expressions within the view. newtitle is an object (typeof HTMLInputElement) that represents this input DOM element

newtitle

template variable

Article[] or Array<Article>

generics

{{}}

template binding

private currentProduct: Product

local component state

knowledge

- one of the big ideas behind Angular is the idea of components.
- the fundamental idea behind components: we'll teach the browser **new tags** that have custom functionality.
- components are the **new** version of directives ng-1

angular1's **dependency injection** used the **annotation** concept behind the scenes

when boot an Angular app, you're not booting a component directly, but instead you create an NgModule which points to the component you want to load.

you have to declare **components** in a NgModule before you can use them in your templates

Angular 1, **directives** match globally. Angular 2, need to **explicitly** specify **which components** you want to use

JavaScript, by default, propagates the click event to all the parent components

href="" (empty link) === reload page

an angular2 is nothing more than a tree of components. top level Component is the application itself.that's what the browser will render when booting (a.k.a bootstrapping) the app.

@Component annotation is where you configure your component. Primary,
 @Component will configure how the outside world will interact with your component.

[]:input,():output.

Data flows into your component via input bindings and events flow out of your component through output binding.

Think of the set of input + output bindings as defining the public API of your component.

In Angular, you send data out of components via **outputs**.



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knowledge (cont)

 $(\verb"onProductSelected"): the name of the \verb"output" we want to$

listen on

 ${\tt productWasSelected:} \ \ \textbf{the function we want to call when}$

something new is on this output

 $\ensuremath{\mbox{\tt \$event:}}$ special variable that represents the thing emitted on

the **output**

when we specify that acomponent takes an input, it is expected that the definition class will have an instance variable that will receive the value

<button (click)="increase()">Inc</button>

In this case, the **event** is **internal** to the **component**. we can also expose **public event** (component output) that allow the component to talk to the **outside** world

An EventEmitter is simply an object that helps you implement the Observer Pattern. That is, it's an object that can maintain a list of subscribers and publish events to them

When we assign an EventEmitter to an **output** Angular **automatically subscribes** for us. But can add subscriptions by **our own**.

every component must be declared in one NgModule before it can be used in a template

The **recommended way** in Angular 2, and in many modern web frameworks (such as React), is to adopt a pattern of **one-way data binding**. That is, your **data flows only down through components**. If you need to **make changes**, you **emit events** that cause changes to happen **at the top** which then trickle down.



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