#### Advertisements



http://www.sahosofttutorials.com/Course/Angular7/200/

Dynamic component loader

If we give like this <app-comp> all will view but Requirement like load component when click or select



# Ap.module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';

import { AppComponent } from './app.component';
import { StudentInfoComponent } from './student-info/student-info.component';
import { ParentInfoComponent } from './parent-info/parent-info.component';

@NgModule({
    declarations: [
        AppComponent,
        StudentInfoComponent,
        ParentInfoComponent
],
imports: [
        BrowserModule
],
providers: [],
bootstrap: [AppComponent],
entryComponents: [StudentInfoComponent, ParentInfoComponent]
```

```
})
export class AppModule { }
```

app.component.html

```
<div class="box-header with-border">
 <div class="form-group voffset row">
     <label for="" class="vertical-label col-sm-4 col-md-8 text-right"> Update Form</label>
     <div class="col-sm-8 col-md-4">
          <select (change)="selectName($event.target.value);">
                  <option value="0">--Select--</option>
               <option [value]="obj.Id" *ngFor="let obj of data">
                  {{obj.Name}}
            </option>
      </select>
      </div>
 </div>
 <div class="form-group voffset row">
 <template #loadComponent>
 </template>
 </div>
</div>
```

#### App.component.ts

```
import {
  Component,
  ViewChild,
  ViewContainerRef,
  ComponentFactoryResolver,
  ComponentRef,
  ComponentFactory
} from '@angular/core';
import { StudentInfoComponent } from './student-info/student-info.component';
import { ParentInfoComponent } from './parent-info/parent-info.component';
@Component({
  selector: 'app-root',
templateUrl: './app.component.html',
styleUrls: ['./app.component.css']
export class AppComponent {
  title = 'app';
  componentRef: any;
  @ViewChild('loadComponent', { read: ViewContainerRef }) entry: ViewContainerRef;
  constructor(private resolver: ComponentFactoryResolver) { }
createComponent(Id: number) {
    this.entry.clear();
    if (Id == 1) {
        const factory = this.resolver.resolveComponentFactory(StudentInfoComponent);
         this.componentRef = this.entry.createComponent(factory);
    } else if (Id == 2) {
      const factory = this.resolver.resolveComponentFactory(ParentInfoComponent);
       this.componentRef = this.entry.createComponent(factory);
    this.componentRef.instance.message = "Called by appComponent";
  destroyComponent() {
    this.componentRef.destroy();
```

https://stackblitz.com/angular/vvmmveykakg?file=src%2Fapp%2Fhighlight.directive.ts

#### Attribute directives

mouse enters or leaves Text color has to change

color appears when the pointer hovers over the paragraph element and disappears as the pointer moves out.

on radio button selection color has to change



#### Step1

```
import { Directive, ElementRef, HostListener, Input } from '@angular/core';

@Directive({
    selector: '[appHighlight]'
})
export class HighlightDirective {

    constructor(private el: ElementRef) {
        this.highlight('yellow')
    }
    @Input() defaultColor: string;

@Input('appHighlight') highlightColor: string;

@HostListener('mouseenter') OnMouseEnter(){
        this.highlight(this.highlightColor = 'red' )
}

@HostListener('mouseleave') OnMouseLeave(){
        this.highlight(null)
}
private highlight(color: string) {
        this.el.nativeElement.style.backgroundColor = color;
}
}
```

#### Html



🔘 Sign in 📮 Open in New Window 🚥 🕒 Close

My First Attribute

Directive

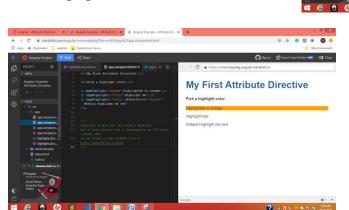
# My First Attribute Directive

Pick a highlight color

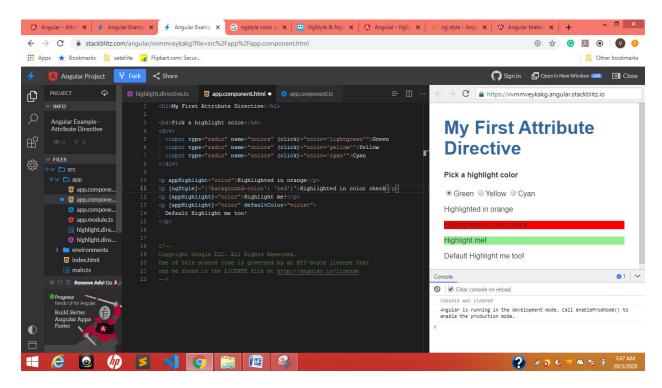
Highlighted in orange

Highlight me!

Default Highlight me too!



#### Three different colors



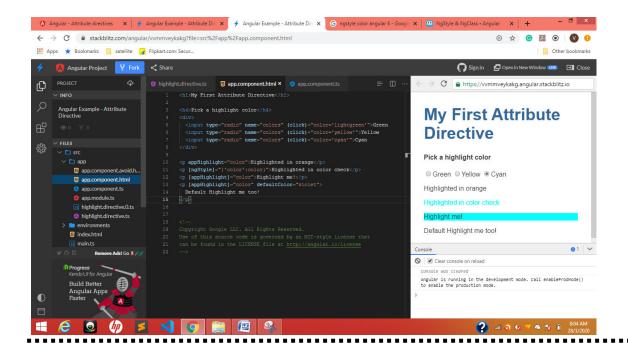
[ngStyle]="{'background-color': 'red'}"

[ngStyle]="{'key': 'value'}"

ngStyle is objective

```
Highlighted in orange
Highlighted in color check
Highlight me!

    Default Highlight me too!
```



#### Structural directives

https://stackblitz.com/angular/ygixdrnerky?file=src%2Fapp%2Fapp.component.html

# nglf

```
*ngIf="true" [style.display]="'block'" [style.display]="'none'"
```

# Toggle

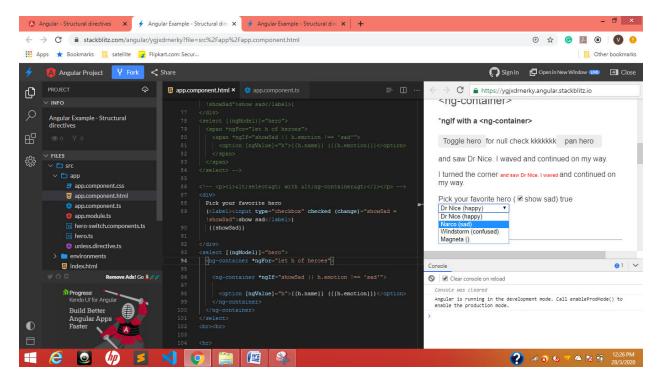
Now conditionally exclude a *select* container>.

### The <ng-template>

The <ng-template> is an Angular element for rendering HTML. It is never displayed directly. In fact, before rendering the view, Angular replaces the <ng-template> and its contents with a comment.

If there is no structural directive and you **merely wrap some elements** in a <ng-template>, those elements disappear. That's the fate of the middle "Hip!" in the phrase "Hip! Hip! Hooray!".

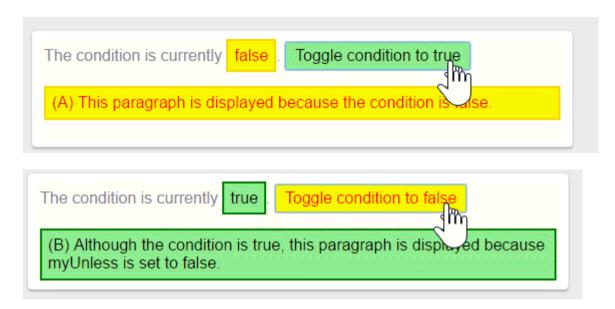
# if selected only then show in dropdown <ng-container>



# TemplateRef and ViewContainerRef

The appUnless property

UnlessDirective



# Just toggle \*appUnless

#### Html

# ngFor odd even text highlet

# NgFor

```
<div *ngFor="let hero of heroes; let i=index; let odd=odd; trackBy:
trackById" [class.odd]="odd">

(0) Dr Nice 1
(1) Narco 2
(2) Windstorm 3
(3) Magneta 4

<ng-template ngFor let-hero [ngForOf]="heroes" let-i="index" let-odd="odd" [ngForTrackBy]="trackById"/>
(0) Dr Nice
(1) Narco
(2) Windstorm
(3) Magneta
```

```
[class.odd]="even">
```

[class.odd]="odd"

```
<div *ngFor="let hero of heroes; let i=index; let odd=odd; trackBy: trackById" [class.odd]="
odd"&gt;
<div
*ngFor="let hero of heroes;
let i=index;
let odd=odd;
let even=even;</pre>
```

#### NgSwitch

## Many components in component.ts file

```
/*
Copyright Google LLC. All Rights Reserved.
Use of this source code is governed by an MIT-style license that
can be found in the LICENSE file at http://angular.io/license
*/
```

# **Pipes**

Power Booster 2^10=1024

```
Super power boost: {{2 | exponentialStrength: 10}}
https://stackblitz.com/angular/yordgxmxrgo?file=src%2Fapp%2Fpower-boost-calculator.component.ts
```

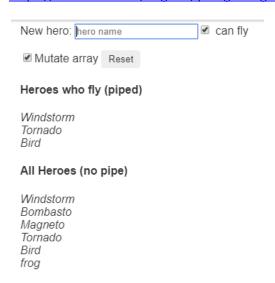
## **Power Boost Calculator**

Normal power: 5	
power Boost factor: 2	
Square: 25	
1024	

```
})
export class PowerBoostCalculatorComponent {
  power = 5;
  factor = 1;
}
```

enterValue =Math.pow(2, 10);;

https://stackblitz.com/angular/yordgxmxrgo?file=src%2Fapp%2Fflying-heroes.component.html



On click of check box entered value should go to respective category

```
▼ [Object, Object, Object, Object]
 ►0: Object
 ►1: Object
 ₹2: Object
    canFly: false
    name: "Magneto"
      _proto__: Object
 ▼3: Object
    canFly: true
    name: "Tornado"
      _proto__: Object
 ▼4: Object
    canFly: true
    id: 1234
    name: "kiran"
    pin: 507203
    __proto__: Object
```

# ID, pin of key and values added dynamically

# Async Hero Message and AsyncPipe Send message with async pipe

# Async Hero Message and AsyncPipe

Message: 3Will you be my hero?

Resend

# How to convert data type into json format

## Heroes from JSON File

```
Windstorm
Bombasto
Magneto
Tornado

Heroes as JSON: [ { "name": "Windstorm",
    "canFly": true }, { "name": "Bombasto",
    "canFly": false }, { "name": "Magneto",
    "canFly": false }, { "name": "Tornado",
    "canFly": true } ]
```