

Classes in TypeScript



TypeScript is used to create a blueprint for creating objects



TypeScript inherits the feature from ES6 class functionality



These are fundamental entities used to create reusable objects



TypeScript classes are converted into JavaScript functions



Constructors

Properties

Methods



Object and Constructor



- An object can be created out of a class using a "new" keyword
- `var data = new Employee()`
- A constructor gets invoked when a class is initialized
- A constructor is a place to put some logic

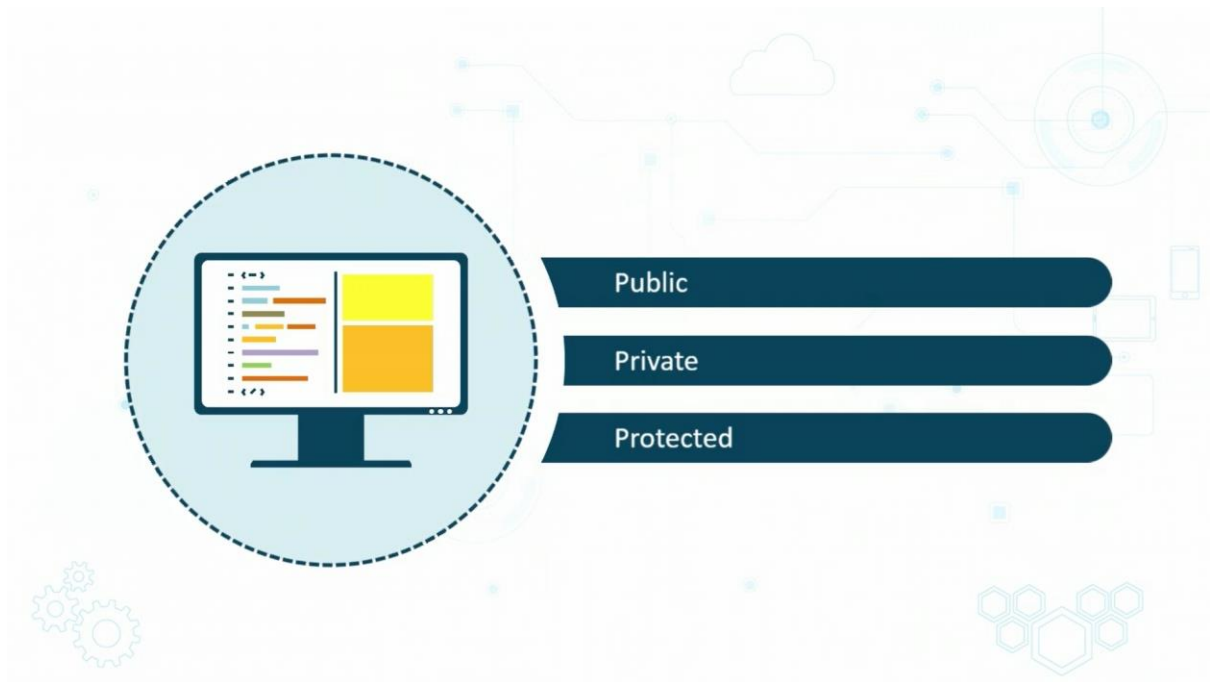


- New memory space is created
- Once the class has executed, the new memory reference is returned
- The memory reference is saved to the variable "data"



2:15 / 3:15





Properties

A video player interface showing a slide about Properties. The slide has a light beige background and a dashed border. At the top center of the slide is a small icon of a code editor with a blue background and a white border, containing the text "</>". Below the icon, there is a list of four bullet points. The video player controls at the bottom show a play button, a progress bar, and a timestamp of 0:54 / 2:13.

- Properties can be added to classes
- Access modifiers can be added to the TypeScript properties
- Access modifiers control the visibility of the data members
- The concept is named "encapsulation"

Private is encapsulated

Example of TypeScript Properties




```
class Animal{  
  furColor: brown;  
  
  constructor() {  
  
  }  
  
  myColor() {  
    return "Hello, I am " + this.furColor;  
  }  
}
```

Adding functions in Typescript classes



- Functions can be added to TypeScript classes
- Functions can access the properties available to the classes
- Access modifiers can be added to functions


Example of TypeScript Functions



```
class Animal{  
  furColor: brown;  
  
  constructor() {  
  
  }  
  
  myColor() {  
    return "Hello, I am " + this.furColor;  
  }  
}
```

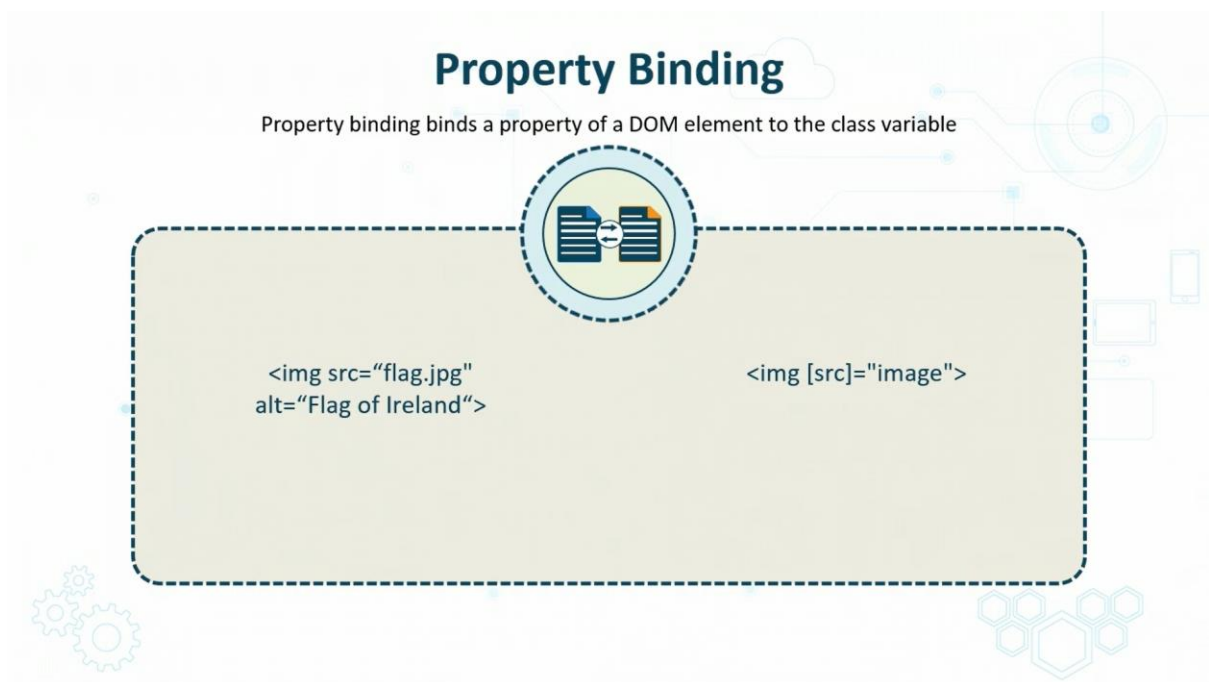
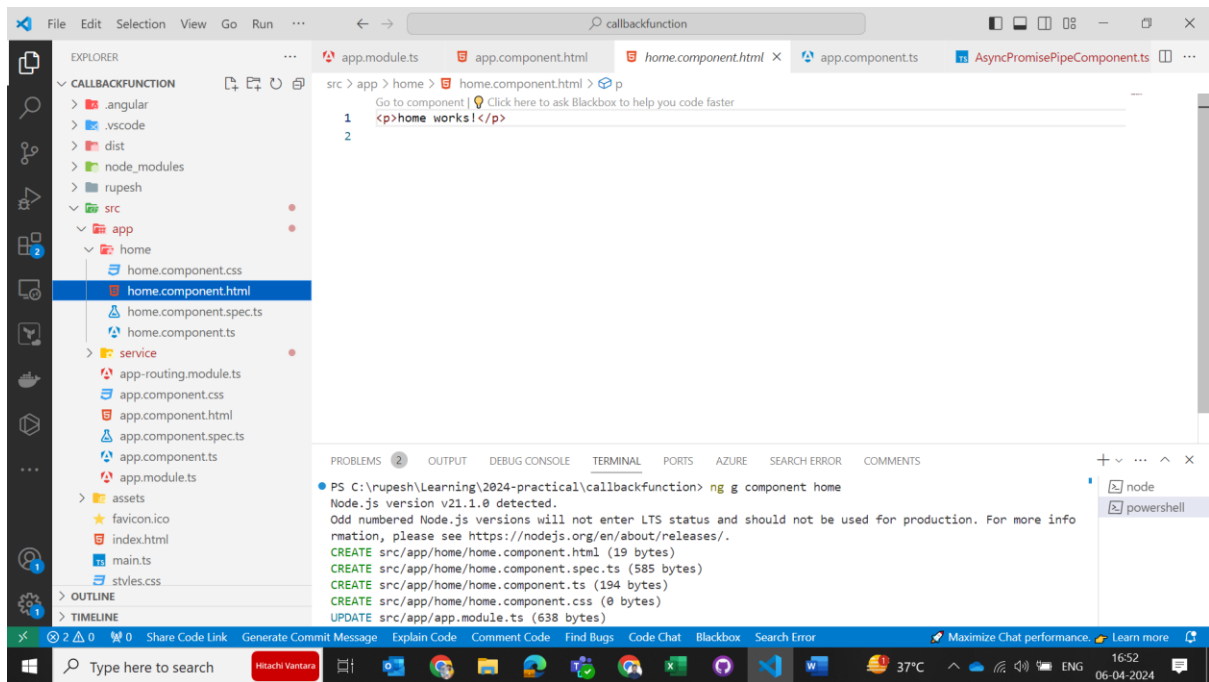


Defining Decorators in Typescript

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- The concept of a decorator was introduced with ES6
 - The use of decorators in Angular 2+ made it more popular
 - Decorators are special syntax used with "@"
 - Decorator declaration can be customized using Decorator Factory
 - Multiple decorators can be applied to a declaration using Decorator Composition

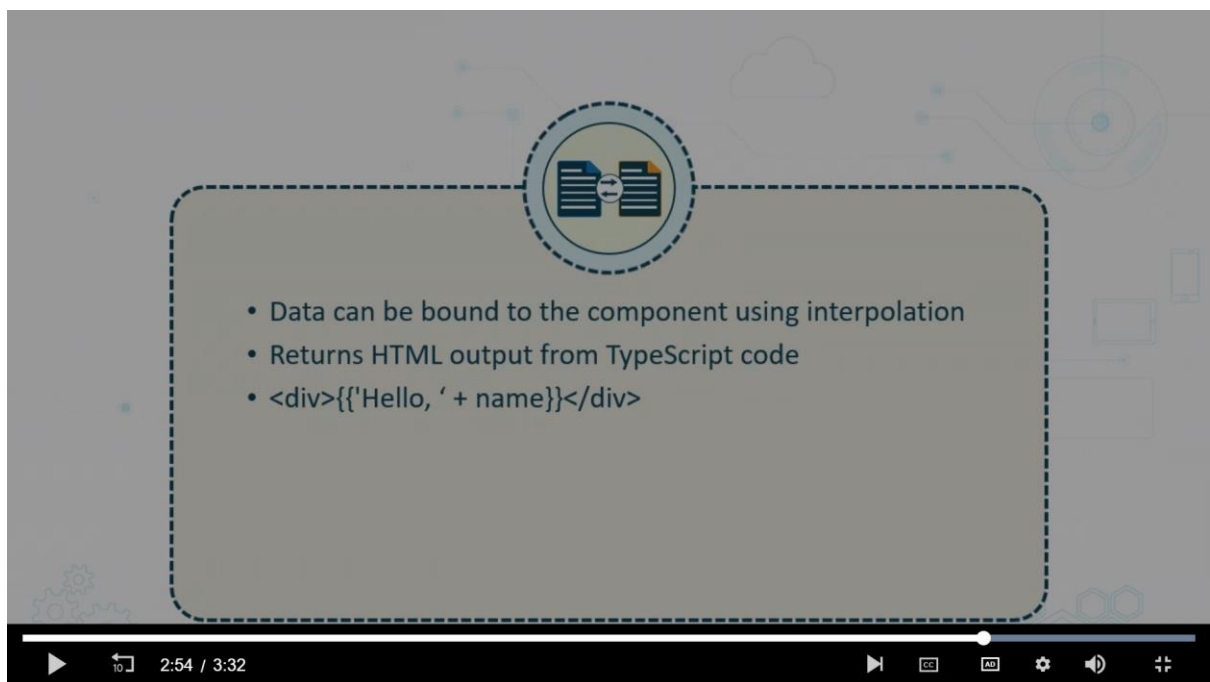
Creating components

Ng g component home





Interpolation examples



Ng-bind



- The ngBind attribute is used to replace the text content of the specified HTML element with a given value expression
- Syntax: ng-bind="expression">