

# Avalonia field keyword Binding

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https://github.com/JusterZhu/AvaloniaCypher



# Avalonia & new *field* keyword in .NET 10/C# 14



#### Property 属性

```
public class Button
   private string caption;
  public string Caption
      get
         return caption;
      set
         caption = value;
         Repaint();
```

- 智能字段 "Smart field"
- 访问器 Accessor(s)
- 访问控制 Access Control

```
Button b = new Button();
b.Caption = "OK";
string s = b.Caption;
```



#### Property 属性

```
public class Button
{
    public string Title { get; private set;}
}
```

#### 自动属性 Auto Properties 编译器生成后置字段 Generated Field

```
public class Button
    [CompilerGenerated]
    [DebuggerBrowsable(DebuggerBrowsableState.Never)]
    private string <Title>k BackingField;
    public string Title
        [CompilerGenerated]
        get
            return <Title>k BackingField;
        [CompilerGenerated]
        private set
            <Title>k BackingField = value;
```

#### Property 属性

#### Partial Property

```
public partial class Button
    public partial string Title { get; }
public partial class Button
    public partial string Title => "";
```

```
public class Button
    public string Title
        get
            return
```

#### field keyword

#### field keyword binding

```
public sealed class MainViewModel : ObservableObject

☑ 3 usages 
② Weihan Li

    public string? Input
        get => $" [{field}] ";
        set
            field = value?.Trim();
            OnPropertyChanged();
```

Microsoft

### 示例



#### 课程回顾

- 1. property 各种用法
- 2. field 关键词示例





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