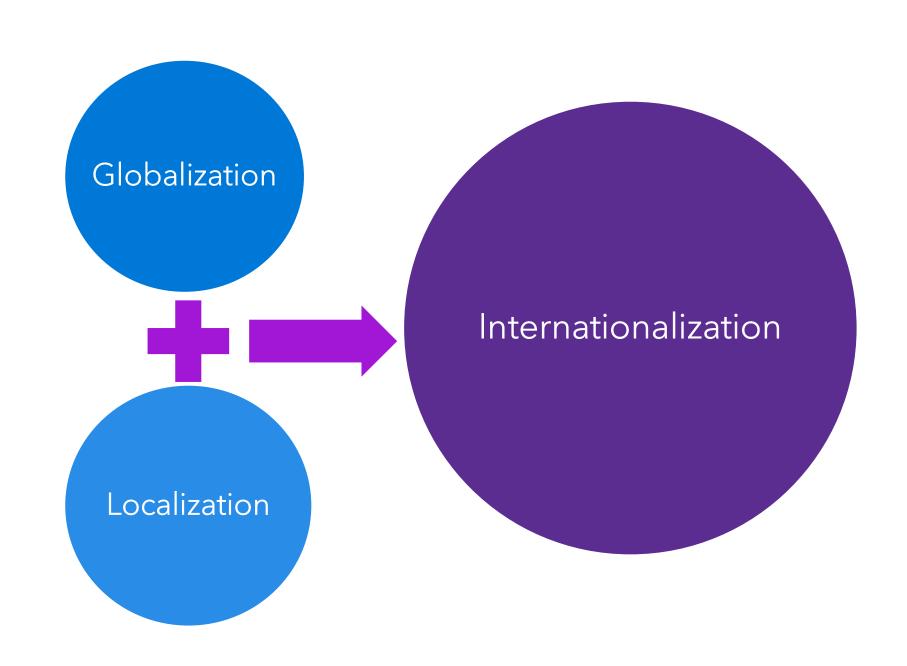
### Globalizing Your ASP.NET 8 Presence

**CONFOO 2024** 



### **Agenda**

- Overview
- Globalizing ASP.NET Core MVC Projects
- Resource Files
- Localizing ASP.NET Core MVC Projects
- User Selectable Culture w/ Cookies
- Data Annotations
- Custom Providers
- Custom Localizers



### **Globalization**

Process of designing and developing software for different cultures

- Identifying the culture/locale that must be supported
- Designing features which support those cultures/locales
- Writing code that functions equally well in any of the supported cultures/locales

### **Globalization**

Areas we have to look at for Globalization:

- Languages
- Currencies
- Date and time formatting
- Numeric, weight, and measure conventions

### Localization

- Translating the application user interface (UI) or adapting graphics for a specific culture
- The localization process for assigning UI elements with localized text and resizing application UI elements to accommodate localized text



### **Methods to Determine Culture**

**URL** Request String

• QueryStringRequestCultureProvider

Cookies

• CookieRequestCultureProvider

Accept-Language HTTP Header

AcceptLanguageHeaderRequestCultureProvider



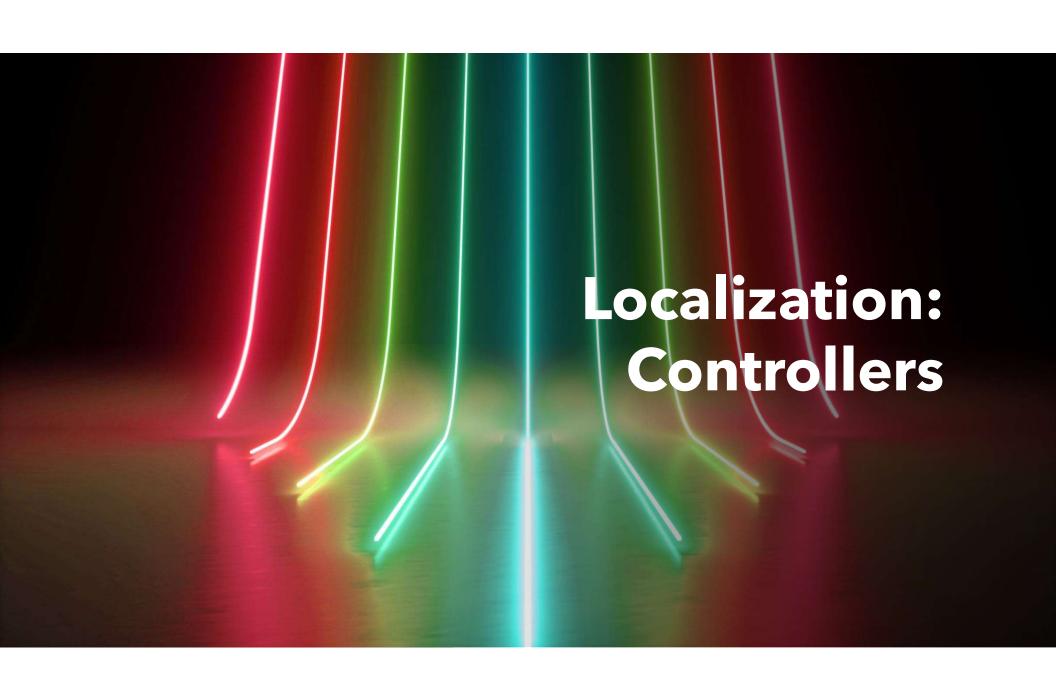


### **Resource File Generation**

RESGEN.EXE

Use a Localization Manager in your preferred IDE

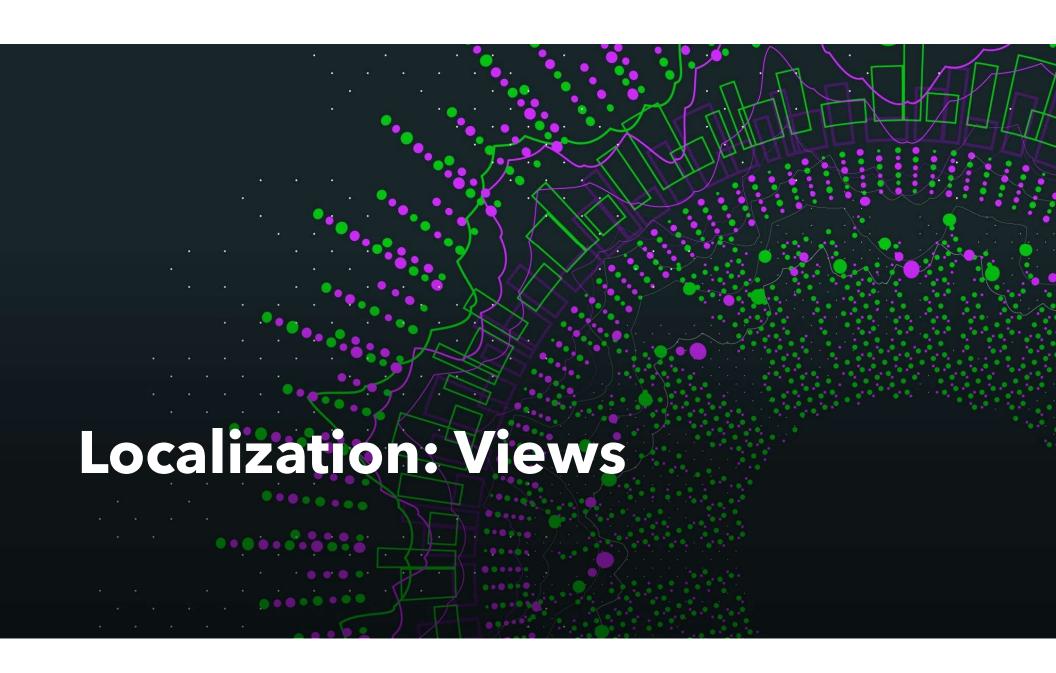
Working with your Business Analyst



### **Resource File Naming Standard**

Resources/Controllers.HomeController.en.resx Resources/Controllers.HomeController.fr.resx Resources/Controllers.HomeController.en.resx

Resources/Controllers/HomeController.en.resx Resources/Controllers/HomeController.fr.resx Resources/Controllers/HomeController.en.resx



```
public IActionResult Index()
{
    ViewData["Title"] = _localizer["Title"];
    return View();
}
```

```
@USING MICROSOFT.ASPNETCORE.MVC.LOCALIZATION
@INJECT IVIEWLOCALIZER LOCALIZER

@{
     VIEWDATA["TITLE"] = LOCALIZER["HOMETITLE"];
}
<H1 CLASS="PAGE-HEADER">@VIEWDATA["HOMETITLE"]
</H1>
```

### **Resource File Naming Standard**

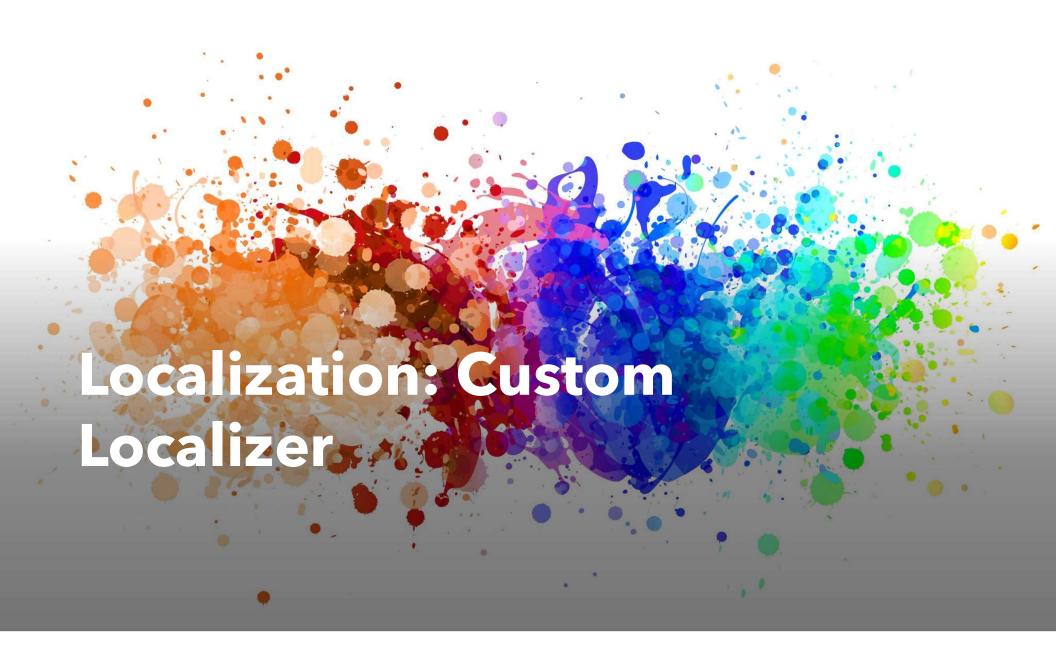
Resources/Views.Home.Index.en.resx Resources/Views.Home.Index.fr.resx Resources/Views.Home.Index.en.resx

Resources/Views/Home/Index.en.resx Resources/Views/Home/Index.fr.resx Resources/Views/Home/Index.en.resx



### **Resource File Naming Standard**

Models/AlbumViewModel.en-US.resx Models/AlbumViewModel.en-US.resx Models/AlbumViewModel.en-US.resx



### Thanks for attending the session!



All the demoes and code located on GitHub

https://github.com/cwoodruff/ ASPNETCore-I18n