

What is new in ASP.NET Core?

DOTNEXT

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Who am I?

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Welcome to ASP.NET Core!

ASP.NET Core is a lean and composable framework for building web and cloud applications. ASP.NET Core is fully open source and available on [GitHub](#). ASP.NET Core is available as a Release Candidate on Windows, Mac, and Linux.

Install ASP.NET Core RC2:

Get it now!



WebForms





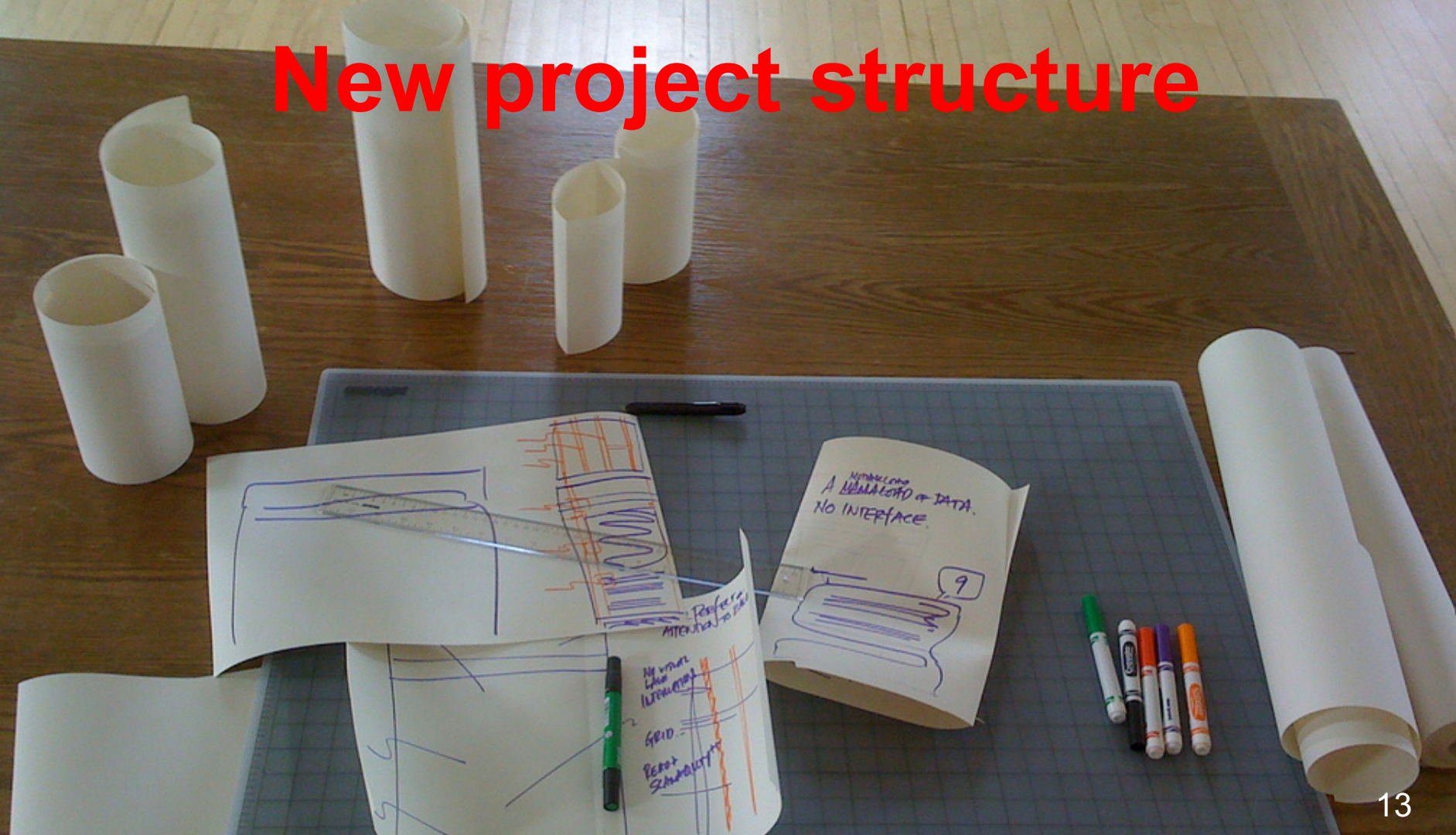
ASP.NET MVC







New project structure




```
{
```

```
  "dependencies": {
```

```
    "Microsoft.NETCore.App": {
```

```
      "version": "1.0.0-rc2-300270",
```

```
      "type": "platform"
```

```
    },
```

```
    "Microsoft.AspNetCore.Diagnostics": "1.0.0-rc2-final",
```

```
    "Microsoft.AspNetCore.Mvc": "1.0.0-rc2-final",
```

```
    "Microsoft.AspNetCore.Razor": "1.0.0-rc2-final",
```

```
      "version": "1.0.0-rc2-final",
```

```
      "type": "build"
```

```
    },
```

```
    "Microsoft.AspNetCore.Server.IIS": "1.0.0-rc2-final",
```

```
    "Microsoft.AspNetCore.Server.Kestrel": "1.0.0-rc2-final",
```

```
    "Microsoft.AspNetCore.StaticFiles": "1.0.0-rc2-final",
```

```
    "Microsoft.Extensions.Configuration.EnvironmentVariables": "1.0.0-rc2-final",
```

```
    "Microsoft.Extensions.Configuration.Json": "1.0.0-rc2-final",
```

```
    "Microsoft.Extensions.Logging": "1.0.0-rc2-final",
```



Totally Modular



Bower



GRUNT




```
gulp.task("clean:js", function (cb) {
  rimraf(paths.concatJsDest, cb);
});

gulp.task("clean:css", function (cb) {
  rimraf(paths.concatCssDest, cb);
});

gulp.task("clean", ["clean:js", "clean:css"]);

gulp.task("min:js", function () {
  return gulp.src([paths.js, "!" + paths.minJs], { base: "." })
    .pipe(concat(paths.concatJsDest))
    .pipe(uglify())
    .pipe(gulp.dest("."));
});

gulp.task("min:css", function () {
  return gulp.src([paths.css, "!" + paths.minCss])
    .pipe(concat(paths.concatCssDest))
    .pipe(cssmin())
    .pipe(gulp.dest("."));
});
```

Faster Development Cycle





.NET Execution Environment

```
C:\ Powershell C:\ Powershell
PS C:\Repos\DotNext2016\src\DotNext2016> dotnet --help
.NET Command Line Tools (1.0.0-preview1-002702)
Usage: dotnet [common-options] [command] [arguments]

Arguments:
    [command]      The command to execute
    [arguments]    Arguments to pass to the command

Common Options (passed before the command):
    -v|--verbose   Enable verbose output
    --version      Display .NET CLI Version Number
    --info         Display .NET CLI Info

Common Commands:
    new            Initialize a basic .NET project
    restore        Restore dependencies specified in the .NET project
    build          Builds a .NET project
    publish        Publishes a .NET project for deployment (including the runtime)
    run            Compiles and immediately executes a .NET project
    test           Runs unit tests using the test runner specified in the project
    pack           Creates a NuGet package
PS C:\Repos\DotNext2016\src\DotNext2016>
```


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LEAVE YOUR EGO
AT THE DOOR



MVC is new


```
using Microsoft.AspNet.Mvc;
```

```
namespace CodeFest.Controllers
```

```
{  
    public class HomeController : Controller
```

```
{  
    public IActionResult Index()  
    {  
        return View();  
    }
```

```
    public IActionResult About()  
    {  
        ViewData["Message"] = "Your application description page.";  
  
        return View();  
    }
```

```
    public IActionResult Contact()  
    {  
        ViewData["Message"] = "Your contact page.";  
  
        return View();  
    }
```

A photograph of a park bench. The bench is made of dark, weathered metal slats. Behind the bench is a wall made of dark bricks. Above the bricks is a concrete block wall. At the top of the image, there are green bushes. A dark metal sign with the words "Rest here" in yellow, sans-serif font is mounted on the brick wall behind the bench. The ground in front of the bench is dirt and gravel.

Rest here

Web API is newer


```
namespace CodeFest.Api
{
    [Route("api/[controller]")]
    public class BooksController : Controller
    {
        private readonly IBooksRepository _repo = new BooksRepository();

        // GET api/books
        [HttpGet]
        public Task<IEnumerable<Book>> Get()
        {
            return _repo.GetBooks();
        }

        // GET api/books/5
        [HttpGet("{id}")]
        public async Task<IActionResult> Get(int id)
        {
            var book = await _repo.GetBook(id);
            if (book == null)
            {
                return HttpNotFound();
            }

            return Ok(book);
        }
    }
}
```

Inversion of Control



Startup.cs

CodeFest.DNX 4.5.1CodeFest.StartupStartup(IHostingEnvironment env)

```
// This method gets called by the runtime. Use this method to add services to the container.
public void ConfigureServices(IServiceCollection services)
{
    // Add framework services.
    services.AddMvc();

    services.AddSingleton<IBooksRepository, BooksRepository>();
}

// This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
```

88 %

BooksController.cs

CodeFest.DNX 4.5.1CodeFest.Api.BooksController_repo

```
public class BooksController : Controller
{
    private readonly IBooksRepository _repo;

    public BooksController(IBooksRepository repo)
    {
        _repo = repo;
    }

    // GET api/books
    [HttpGet]
```

88 %

Cross-Platform





About.

Your application is running on:

OperatingSystem: debian

OperatingSystemVersion: 8

RuntimeType: CoreCLR

RuntimeArchitecture: x64

RuntimeVersion: 4.0.0.0

THANK YOU FOR
VISITING

PLEASE COME AGAIN

Maurice de Beijer - @mauricedb