ASP.NET Core with the New MSBuild Based Tooling

CREATING WEB PROJECTS FROM TEMPLATES WITH DOTNET NEW



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project.json console.csproj

```
"version": "1.0.0-*",
"buildOptions": {
  "debugType": "portable",
  "emitEntryPoint": true
},
"dependencies": {},
"frameworks": {
  "netcoreapp1.0": {
    "dependencies": {
      "Microsoft.NETCore.App": {
        "type": "platform",
        "version": "1.0.1"
    "imports": "dnxcore50"
```



.NET Framework

.NET Core 1.0

.NET Core Tools 1.0

MyWeb .csproj



project .json



MyWeb .csproj



Assembly Info.cs



packages .config MyWeb



.nuspec

















Benefits of project.json

Clean, json project file

Explicit -> Implicit project files

Package references in project file

Modify project without Visual Studio

Create NuGet package from project file

Cross compiling a single project

- Target multiple frameworks

Cross-platform

Transitive package dependencies



Enhancements

Project to project refs to any .NET project

MSBuild goodness: Composable

- Sdk "Rug"
- Implicit meta-package references

XML

- vs. JSON
- Cleaner project files?

Meaningful element naming

- PackageTargetFallback vs imports
- OutputType vs emitEntryPoint
- VersionPrefix/VersionSuffix vs 1.0.0-*
- ProjectReference (relative path)



Enhancements to all .NET project types

- PackageReference default

Enhancements



Key Takeaways



.NET Core plays well with all .NET project types

Project.json benefits brought back to MSBuild

And further project system enhancements

New templating engine for dotnet new

