

# Versioning Your API



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# This Module

## Versioning Your API



# What Is API Versioning?

- Once you publish an API, it's set in stone
  - Users/Customers rely on the API not changing
  - But requirements will change
  - Need a way to evolve the API without breaking existing clients
  - API Versioning isn't Product Versioning
    - Don't tie them together

# The Problem with API Versioning

- In typical projects
  - Versioning is accomplished with different versions of the package
    - E.g. Assemblies
- API Versioning is harder
  - Your API needs to support both new and old users
  - Side-by-side deployment isn't feasible most of the time
  - Need to support both versions in same code base

# API Versioning Schemes

- There are lots of ways to version an API
  - Not all of them are recommended
  - If you find a mechanism that works for you, that's all that matters
  - But remember that you're serving your clients, not yourselves

# Versioning in the URI

// URI Path

`https://foo.org/api/v2/Customers`

// Query String

`https://foo.org/api/Customers?v=2.0`

# Versioning with Headers

```
GET /api/camps HTTP/1.1  
Host: localhost:44388  
Content-Type: application/json  
X-Version: 2.0
```

# Versioning with Accept Header

```
GET /api/camps HTTP/1.1
```

```
Host: localhost:44388
```

```
Content-Type: application/json
```

```
Accept: application/json;version=2.0
```



# Versioning with Content Type

```
GET /api/camps HTTP/1.1
```

```
Host: localhost:44388
```

```
Content-Type: application/vnd.yourapp.camp.v1+json
```

```
Accept: application/vnd.yourapp.camp.v1+json
```

# Demo

Adding ApiVersioning



# Demo

Using Versioning Attributes



# Demo

Adding a Versioned Controller



# Demo

Versioning the Payload



# Demo

Customizing Versioning Method



# Demo

Using Versioning Conventions



# What We've Learned

## Versioning Your API

ASP.NET Core has versioning support builtin

You can version your URLs and your Payloads

You can choose attribute or conventions for config