

Models in ASP.NET Web API



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Module Overview



Models in ASP.NET Web API

- The Role of Models in Web API
- Models and Resources
- Validation in Web API
- Versioning of Models

Models in Web API



What Do We Call Them?



- View Model

- Data that supplied to a view

- Binding Model

- Data that is supplied for data binding

- Resource Model

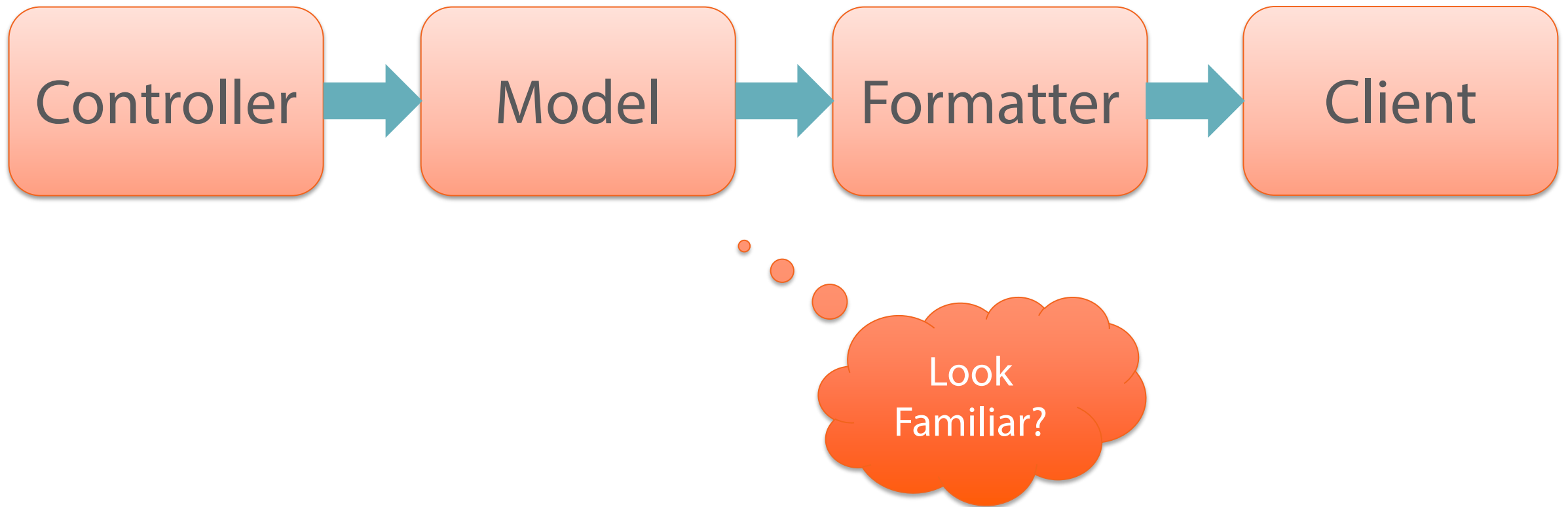
- Data that is supplied through an API

WHO CARES?

Don't get caught up in the dogma.

The requirement to send and receive data
means models will help you do your job.
Period.

Models in Web API



Design More Than Your API

`/api/profile`

`/api/profile/interests`

`/api/profile/photos`

`/api/profile/photos/1`

Design More Than Your API

```
{  
  "pitch": "This is a new pitch",  
  "lookingFor": "A woman, any woman",  
  "introduction": "Family is very important.",  
  "birthdate": "1990-05-17T00:00:00",  
  "orientation": "Straight",  
  "gender": "Male",  
  "memberName": "awkwardguy",  
  "interests": [ ... ],  
  "photos": [ ... ]  
}
```


Demo

Using Models in Your API



Demo

Validation on an API



Demo

Collections of View Models



Unlike View Models in MVC,
your API Models are a contract.
You can't break them!

Model Versioning

- It's too easy to just version your API
 - You must version your models too
 - Typically done with media type headers

```
HTTP/1.1 200 OK
Content-Type: application/vnd.dmp-com.profile+json; version=1.0
{ "memberName": "awkwardguy", ... }
```

For a complete how-to on
versioning models,
see module 5 of my
Implementing Web API Course:

<http://shawnw.me/pswebapi>

What We've Learned

Models in ASP.NET Web API

The nomenclature doesn't matter; be pragmatic

Separating the Entities from the Contract is beneficial

Validation is still a requirement

You should version your models too