

Shaping Data



Kevin Dockx

ARCHITECT

@KevinDockx <https://www.kevindockx.com>



Coming Up



Data shaping resources

- ExpandoObject
- Collection & single resources
- Handling errors

Data Shaping Resources

Data shaping allows the consumer of the API to choose the resource fields

- <http://host/api/authors?fields=id,name>

Shape on fields of the resource, not on fields of lower-level layer objects



Demo



Creating a reusable extension method to
shape data



Demo



Data shaping collection resources



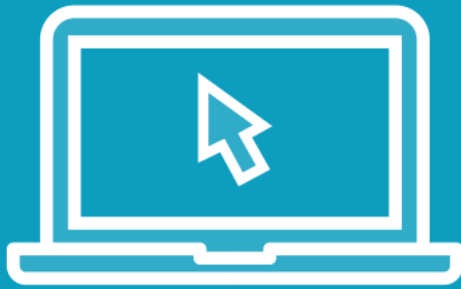
Demo



Data shaping single resources



Demo



Taking consumer errors into account
when shaping data



Exploring Additional Options

Including child resources

- <http://host/api/authors?expand=course>
- <http://host/api/authors?fields=courses.id>

Advanced filters

- [http://host/api/authors?
name.contains\('Kevin'\)](http://host/api/authors?name.contains('Kevin'))



Exploring Additional Options

Don't implement functionality you don't reasonably expect consumers of your API to require



Summary



Allow data shaping on resource fields, not on fields that lie beneath that layer

Use ExpandoObject to dynamically create the object to return

Use separate methods for shaping single and collection resources for performance reasons

Return the fields parameter as query string in pagination links

Errors should be returned as level 400 errors

