Cross-Cutting CONCERNS for Angular Apps













http://www.angularlicio.us **OR** www.angularlicious.com

angularlicious



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Real-life cross-cutting concerns?



Home KITCHEN



- Lights
- Gas Stove/Range
- Hot Water
- Cold Water
- Heat/Air Conditioning
- Appliances





What are cross-cutting concerns?

Things you need...





They are concerns that other parts of the application rely on or use - and are generally not related to the domain of the system or application.

- solve inter-dependency communication
- used by multiple layers and/or verticals of a system
- typically have a single-responsibility
- utility types
- allows reuse of the concern from a single-source (library)

Types of cross-cutting...

Things you need..

Types of Cross-Cutting Concerns



- Configuration
- Logging
- Exception Handling
- Exception Logging
- Notifications
- Security
 - Authentication
 - Authorization

- Data Validation
- Business Rules
- HTTP/Data Access
- Caching
- Data Persistence and Storage



BENEFITS?

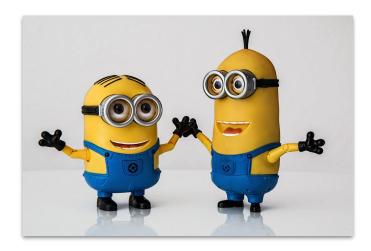
WHY SHOULD I USE THEM, WHAT'S THE BENEFIT?

WHAT are the

BENEFITS? Solve common problems

- Single source of truth
- Consistent
- Reusable
- Maintainable
- Separate from domain code







Implementation CONCERNS

What do I need to know about implementation?

Implementation Goals



- Easily accessible
- Available early to application
- aInjectable
 - Use Angular DI
 - Service with API
 - o Consumer provides the service
- Contained in its own @NgModule
- Should be configurable

DEMO Time



Let's build a library that can be published to npm...

Final THOUGHTS

The future is so bright...



REMEMBER WHY.

- Don't Repeat Yourself (DRY) Principle
- Separation of Concerns
- Single Responsibility
- Encapsulation
- Interface-Driven Design
- Versioning
- . . .



BE SO GOOD
THEY CANNOT
IGNORE
YOU.

Presentation RESOURCES



- Cross-Cutting Concern Definition
- Aspects and Aspect-Oriented-Programming



Thanks!

Any questions?

You can find me at @angularlicious & matt@angularlicio.us