



# Welcome!

- Agenda
  - SOLID in Action (35 mins)
  - Okta 101 (5 mins)
  - Q&A (10 mins)

# S.O.L.I.D

S	SRP	Single Responsibility Principle	
O	ОСР	Open-Closed Principle	
L	LSP	Liskov Substitution Principle	
I	ISP	Interface Segregation Principle	
D	DIP	Dependency Inversion Principle	

https://join.slack.com/t/lrtf-solid/shared\_invite/enQtMjQ5NTg4ODgzNzI5LTQyYjZlNDI1YzlmNWRjZjBINGI2M2U4ZWJhNTdjMzY0ODljNDIxZjNjYzk4MGVhMGY5MzlyMmI3ZDUxMzE4MDE





1-929-236-9306

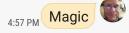
#### MMS



+19292369306

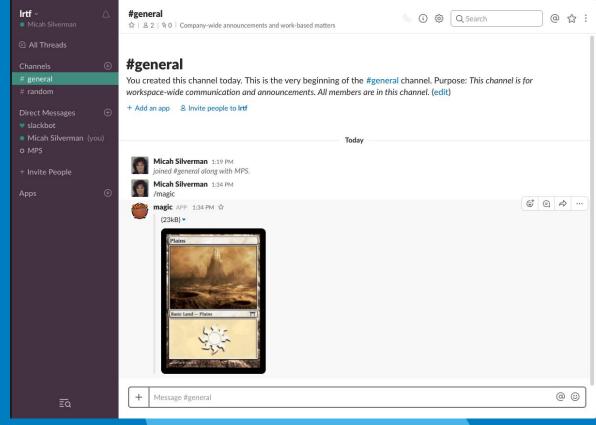


Sunday, October 1, 2017









#### Slack

D DIP Dependency Inversion Principle

High-level modules should not depend on low-level modules. Both should depend on abstractions.

Abstractions should not depend on details. Details should depend on abstractions.

tag: slack-first-pass

# I ISP Interface Segregation Principle

Many client-specific interfaces are better than one general-purpose interface.

S | SRP | Single Responsibility Principle

A class should have only a single responsibility.

"A class should have only one reason to change." - Robert (Uncle Bob) Martin

tag: twilio-breaks-srp

#### The Magic TwiML Problem

http://.../lmage.ashx?multiverseid=144276&type=card

#### The Magic TwiML Problem

http://.../Image.ashx?multiverseid=144276&type=card

```
<Response>
    <Message>
         <Body/>
         <Media>
            <! [CDATA [
            http://.../Image.ashx?multiverseid=144276&type=card
            11>
         </Media>
    </Message>
</Response>
```

#### The Magic TwiML Problem

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tag: modules-ftw

L LSP Liskov Substitution Principle

Objects in a program should be replaceable with instances of their subtypes without altering the correctness of that program.

# O OCP Open-Closed Principle

Software entities should be open for extension, but closed for modification.

# S.O.L.I.D Recap

S	Single Responsibility Principle	Tag: twilio-fixes-srp - break TwilioController in two to keep each controller singly purposed.
0	Open-Closed Principle	Tag: master - SlackResponse is complete and does not need to be changed. It can be extended without changing existing service code.
L	Liskov Substitution Principle	Tag: master - none of the SlackResponse children returns null or has unneeded methods or annotations.
I	Interface Segregation Principle	Tag: slack-first-pass through master - MagicCardService and SlackResponseService perform different functions and are therefore separate services
D	Dependency Inversion Principle	Tag: slack-first-pass through master - Dependent services are autowired into controllers. Constructor injection is the "best practices" way to do dependency injection. Modules enforce DIP.

### Okta Enables Companies to Do Both IT & API



Employees, Contractors



#### Identity & Mobility Service:

Identity Management Mobility Management Strong Authentication





Partners, Customers



Identity API Products:
Identity API for Any App
Developer Tools
and Community





#### Resources

- https://github.com/dogeared
  - /magic-with-slack-and-twilio
  - /SOLID\_LRTF\_2017
- @afitnerd @OktaDev
- https://en.wikipedia.org/wiki/SOLID\_(object-oriented\_design)
- http://butunclebob.com/ArticleS.UncleBob.PrinciplesOfOod
- OIDC Playground https://okta-oidc-fun.herokuapp.com
- https://developer.okta.com/blog/2017/07/25/oidc-primer-part-1
- HTTPie github.com/jkbrzt/httpie



