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# SDN all the things



**Jose Leitao**

**Production Network Engineer - NIE**



# Myths of Network Automation



**Jose Leitao**

**Production Network Engineer - NIE**



**NEXT  
10 MILES**





**“Automation  
Fixes  
Everything”**















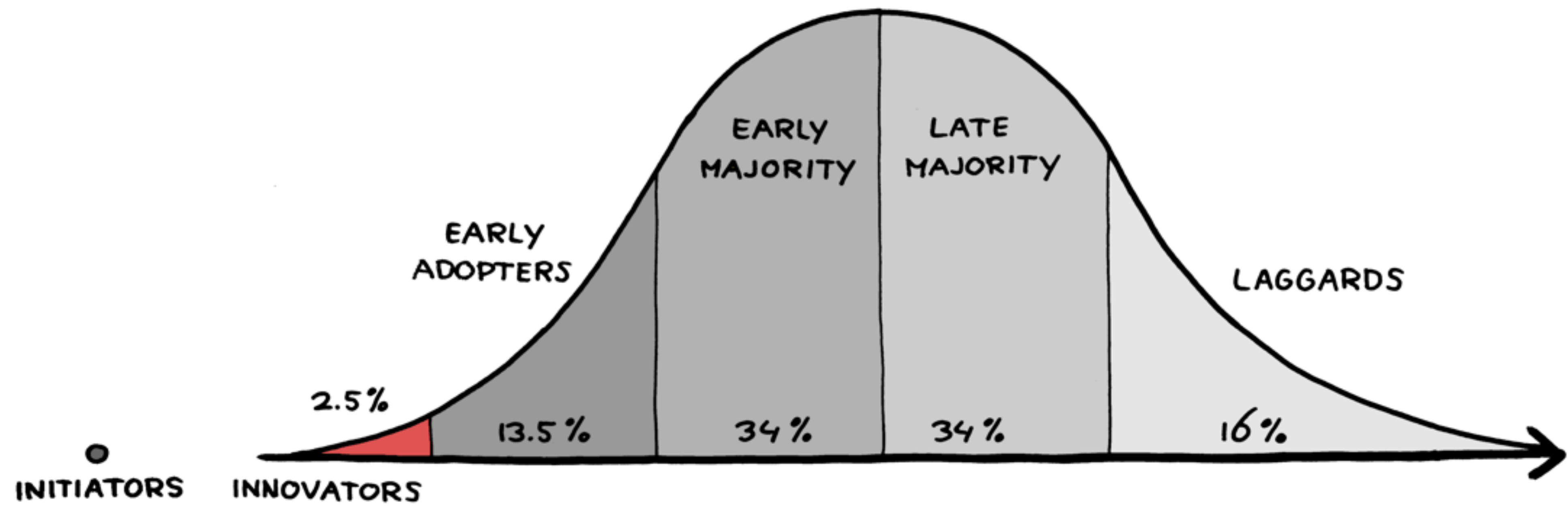




**“Big networks  
have fixed  
everything”**









# Vendor options

Interacting with network gear

- JSON/XML via CLI
- NETCONF / YANG
- REST APIs
- Linux unleashed
- Openconfig

Powerful Techniques for Perl and Other Tools



Mastering

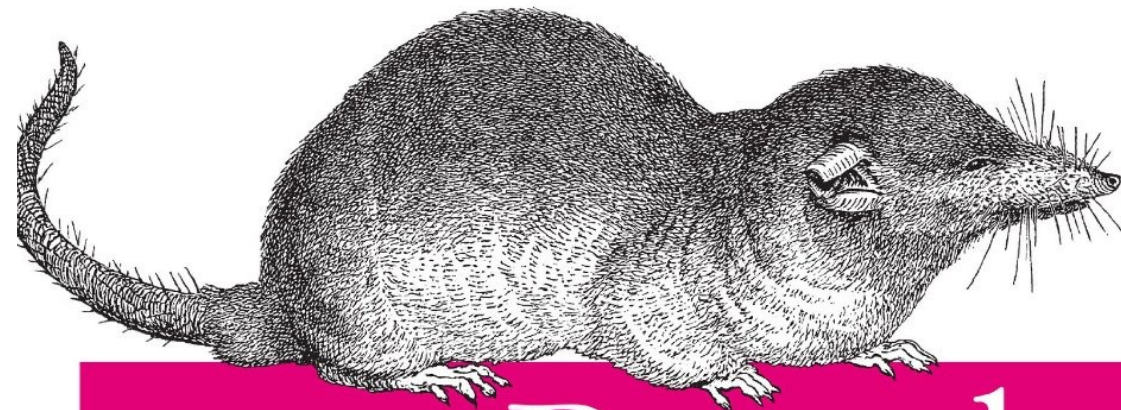
# Regular Expressions

O'REILLY®

Jeffrey E. F. Friedl

Detailed Solutions in Eight Programming Languages

2nd Edition  
Revised and Updated



# Regular Expressions Cookbook

O'REILLY®

Jan Goyvaerts & Steven Levithan

Unraveling Regular Expressions, Step-by-Step

Introducing

# Regular Expressions



O'REILLY®

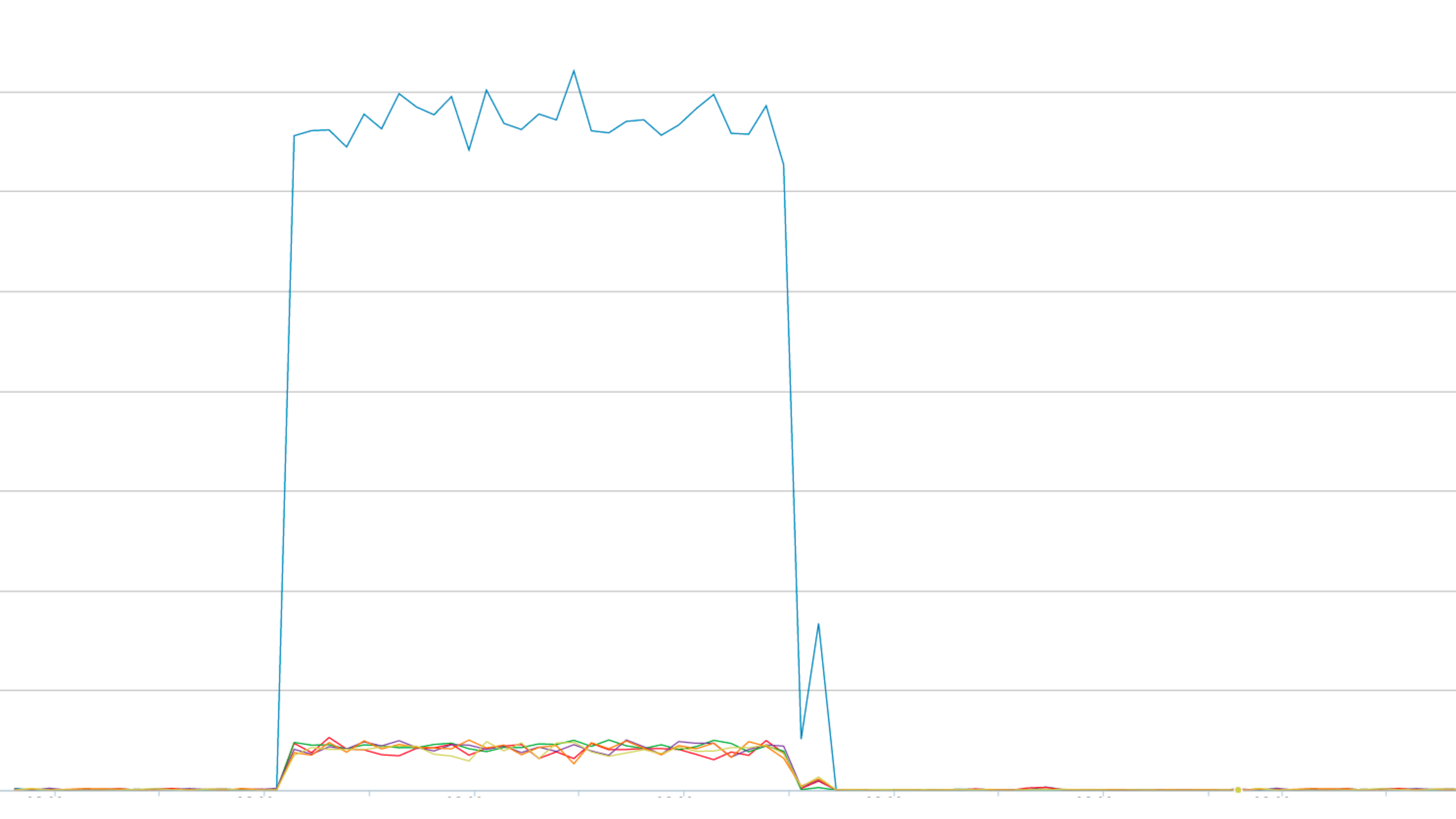
Michael Fitzgerald

Regular Expressions for Perl, C, PHP, Python, Java, and .NET

# Regular Expression

Pocket Reference





FLOOR



RAGE 



**“This is great  
but it doesn’t  
apply to me”**

# Automation (one month)

**3.37b**

0.99%

**750K**

99.6%



# Automation (one month)

$$750,000 * 2 = 1,500,000$$

$$1,500,000 / 60 = 25,000$$

$$25,000 / 160$$

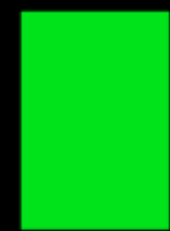
# Automation (one month)

**+150**

750,000 / 25,000  
1,500,000 / 50,000  
2,250,000 / 75,000  
3,000,000 / 100,000  
3,750,000 / 125,000  
4,500,000 / 150,000  
5,250,000 / 175,000  
6,000,000 / 200,000  
6,750,000 / 225,000  
7,500,000 / 250,000

```
import faster_detection
import faster_recovery
import less_stress

if network.is_automated:
    return 'Relax'
else:
    Visit('#netengcode')
```



**WHAT WOULD  
YOU DO IF  
YOU WEREN'T  
AFRAID?**



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