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THE WI-FI ENGINEER COMPETITIVE ADVANTAGE WI-FI DEVOPS

François Vergès, CWNE #180



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PRESENTATION OBJECTIVES





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PRESENTATION OBJECTIVES



DEFINE



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PRESENTATION OBJECTIVES



DEFINE



SHARE



#WLPC



PRESENTATION OBJECTIVES



DEFINE



SHARE



EXPLAIN



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PRESENTATION OBJECTIVES



DEFINE



SHARE



EXPLAIN



INSPIRE



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DevOps





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DevOps

Set of practices that combines software development (**Dev**) and IT operations (**Ops**)



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DevOps

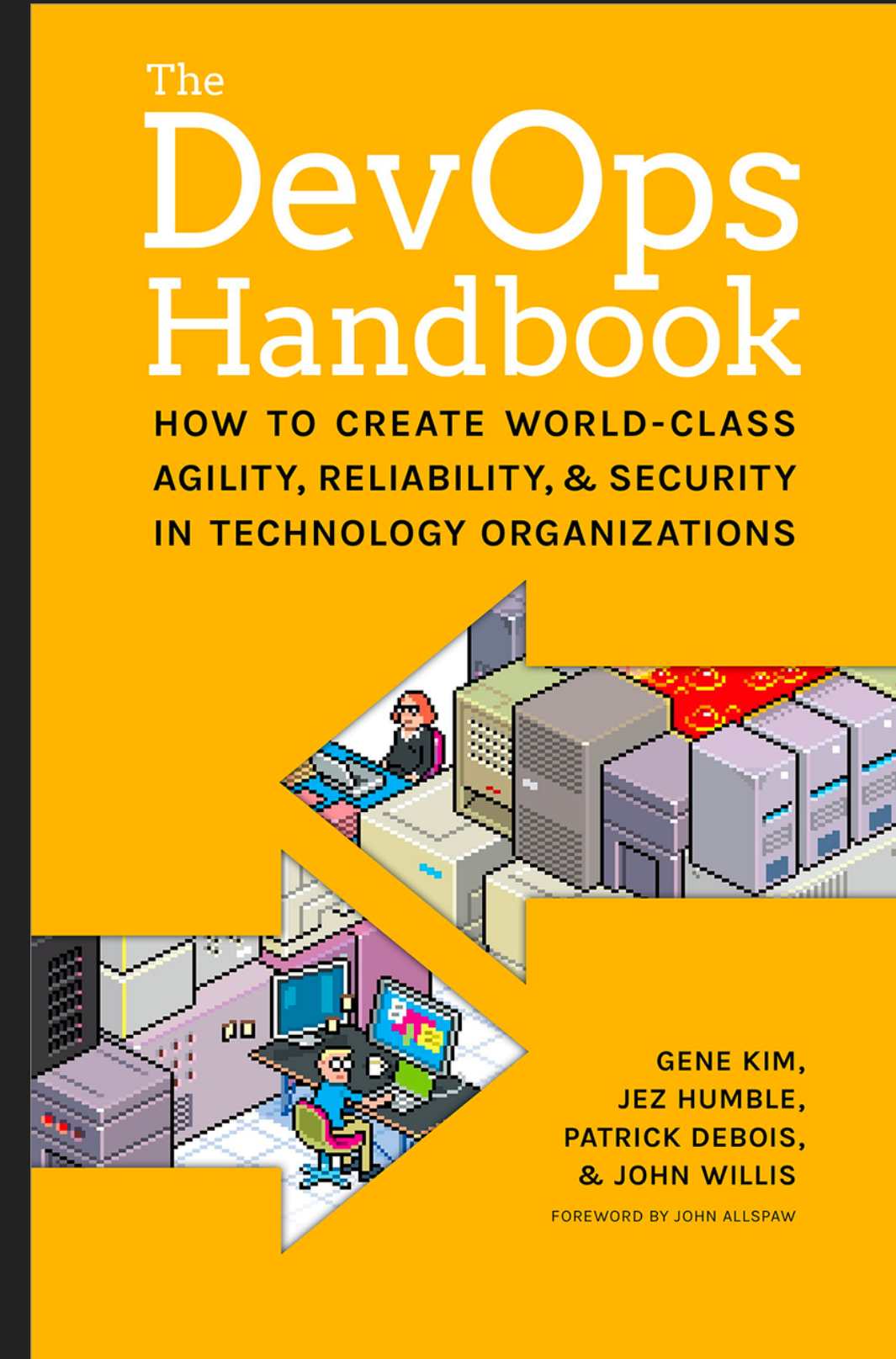
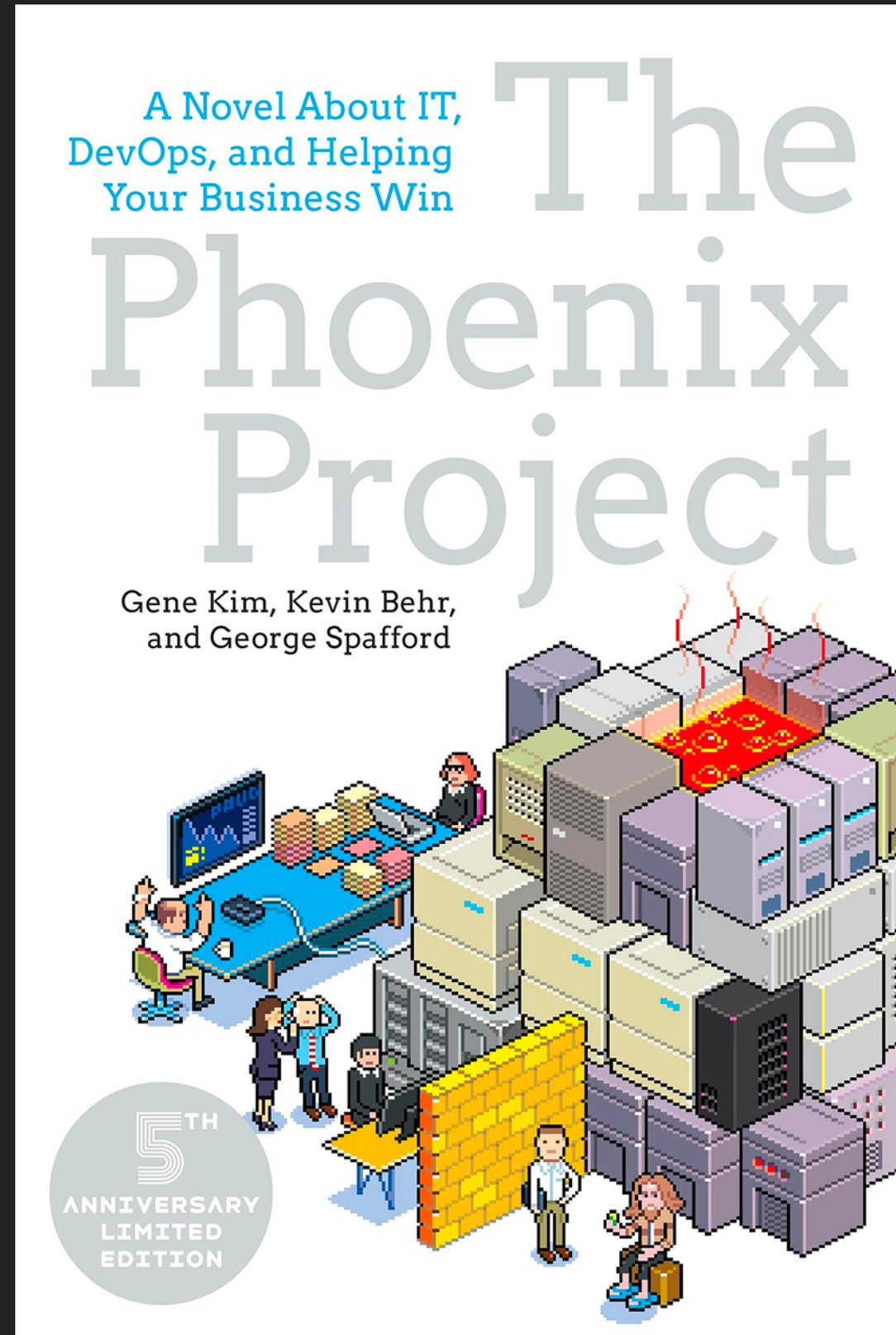
"Combination of **specific practices, culture change, and tools.**"

Mirna Muñoz, Mario Negrete Rodríguez





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DevOps



A new mindset



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Industry Trends





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Our Tools

SNMP

SYSLOG

SSH

CLI





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Our Tools

SNMP

SYSLOG

SSH

CLI



WEBHOOKS

CLOUD

HTTPS

API





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The New **Way**

WEBHOOKS

REST API

SAML

CLOUD

TELEMETRY

DOCKER

GRAFANA

ELASTIC

KIBANA

SPLUNK

ANSIBLE

PYTHON

Unexhaustive, unordered and unorganized list





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Wi-Fi DevOps



A new mindset



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Wi-Fi DevOps





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Wi-Fi DevOps

Specific Practices

Change management

Short feedback circle

Kanban



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Wi-Fi DevOps

Specific Practices

Change management
Short feedback circle
Kanban

Cultural Changes

Network monitoring
Incident response



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Wi-Fi DevOps

Specific Practices

Change management
Short feedback circle
Kanban

Cultural Changes

Network monitoring
Incident response

Tools

APIs
Custom dashboard
Webhooks



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The Promise





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The Promise



Network Automation





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The Promise



Network Automation



Integration





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Management Expectations





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Management **Expectations**

Do more in less time

Use of automation

Deploy faster

Monitor better





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Management Expectations

Do more in less time

Use of automation

Deploy faster

Monitor better

Engineer new solutions

New business applications

Support new business cases





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Networking Teams **Realities**





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Networking Teams **Realities**



Team are shrinking
Hard to find qualified people





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Networking Teams **Realities**



Team are shrinking
Hard to find qualified people



More (challenging) work





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Place of the Wi-Fi Engineer





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Place of the Wi-Fi Engineer

```
!-a[b]    =0:  
  //b-1;  
(c<2*)
```

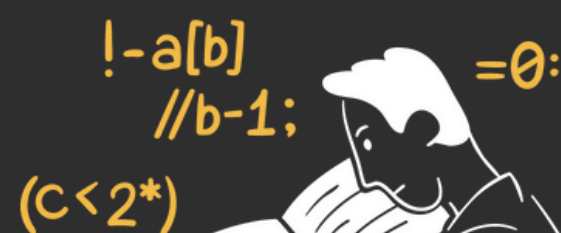


Learning



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Place of the Wi-Fi Engineer



```
!-a[b]
//b-1;
(c<2*)
=0:
```

Learning



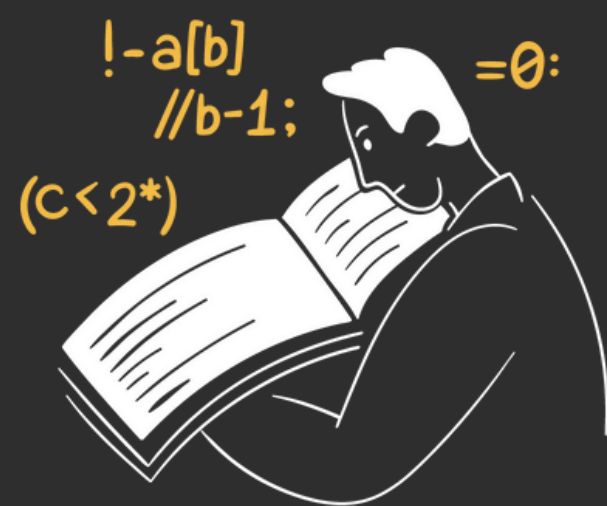
Implementing





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Place of the Wi-Fi Engineer



Learning



Implementing



Delivering





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Emergence of **New Roles**





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Emergence of New Roles

DevOps Network Engineer, IT- Network & Infrastructure Services

University of Delaware ★★★★★ 419 reviews

Remote • Remote

Full-time

Apply now



Global DevOps Engineer

Finning Chile S.A. ★★★★★ 723 reviews

Vancouver, BC

Full-time

You must create an Indeed account before continuing to the company website to apply

Apply on company site



Network Operations Engineer

Disney Media & Entertainment Distribution (part of The Walt Disney Company) ★★★★★ 139 reviews

San Francisco, CA

You must create an Indeed account before continuing to the company website to apply

Apply on company site



InfraOps and DevOps Engineer H.F

Digital Virgo - Aix-en-Provence (13)

Créez un compte Indeed avant de continuer sur le site web de l'entreprise.

Continuer pour postuler



NetOps Engineer

Thales ★★★★★ 2,485 recenzí

Praha

Plný úvazek

Než přejdete na webové stránky společnosti, vytvořte si účet Indeed.

Přejít k odpovědi



Infrastructure Ops Engineer, Infrastructure Operations

Amazon Web Services, Inc. (part of Amazon.com) ★★★★★ 101 reviews

Sunnyvale, CA

Full-time

You must create an Indeed account before continuing to the company website to apply

Apply on company site





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Evolution of the Wi-Fi Engineer





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Evolution of the Wi-Fi Engineer



Networking Skills





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Evolution of the Wi-Fi Engineer



Networking Skills

+



Programming Skills

...



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Computer Networking

Bachelor Degree

Herzing University

Required Courses in Information Technology

All courses, 64.00 semester credit hours, are required.

IS 122 - Programming Logic 3.00	+
IS 123 - Computer Networks 3.00	+

or [IS 195 Transition to Technology Concepts](#) Semester Credit Hours: 3.00 **

** Note: IS 195 is required of advanced standing students only.

IS 183 - Database Concepts and Applications I 3.00	+
IS 187 - Computer Architecture and Troubleshooting I 3.00	+
IS 192 - Linux Administration 3.00	+
IS 283 - Network Security 3.00	+
IS 285 - Routers and Switches I 3.00	+
IS 287 - Routers and Switches II 3.00	+
IS 293 - Linux Application Server 3.00	+
IS 296 - Python Programming 3.00	+
IT 120 - Technical Writing 1.00	+
IT 337 - Data Storage 3.00	+
IT 346 - Information Technology Project Management 3.00	+

* Note: Completion of IT 346 may be waived with the permission of the Academic Dean if the student has already completed BU 345 Project Management.

IT 368 - Cloud Computing 3.00	+
NT 181 - Network and Server Operating Systems 3.00	+
NT 201 - Network Infrastructure Administration 3.00	+
NT 306 - Virtualization 3.00	+
NT 321 - Wireless Networking Fundamentals 3.00	+
NT 326 - System Administration Scripting 3.00	+
NT 342 - Mail Servers 3.00	+
NT 354 - Network Defense 3.00	+
NT 403 - Voice-Over IP 3.00	+





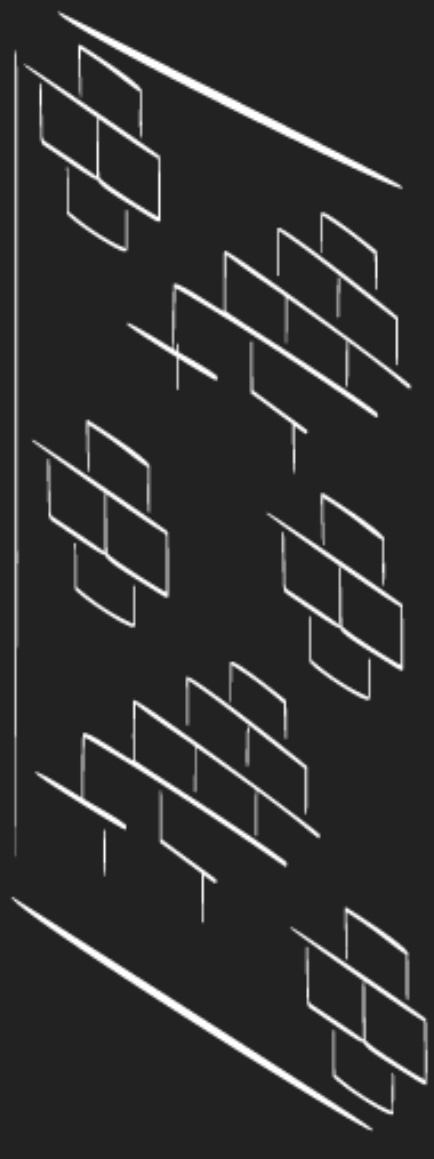
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The Wall of Confusion

"We want stability"



Operations



"We want change"



Development





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Competitive Advantage





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Good **Wi-Fi** Engineer



Know Wi-Fi



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Good **Wi-Fi** Engineer



Know Wi-Fi



Know Networking



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Good **Wi-Fi** Engineer



Know Wi-Fi



Know Networking



Know a lot more!





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Learning New Skills

Wi-Fi Engineer learning programming





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Learning New Skills

Wi-Fi Engineer learning programming



Programmer learning about Wi-Fi





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Learning New Skills

Easier

Wi-Fi Engineer learning programming



Harder

Programmer learning about Wi-Fi





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Understanding Wi-Fi Operations





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Understanding Wi-Fi Operations



Field Work





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Understanding Wi-Fi Operations



Field Work



Wi-Fi Tools





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Understanding Wi-Fi Operations



Field Work



Wi-Fi Tools



What can be done?





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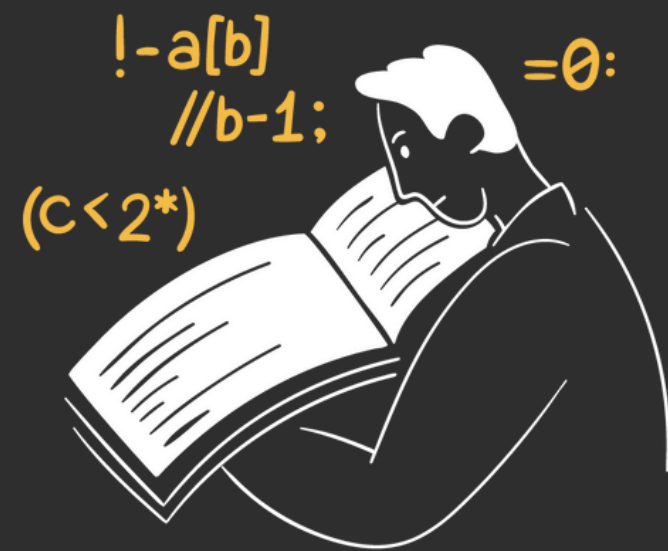
Passion Driven





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Passion Driven

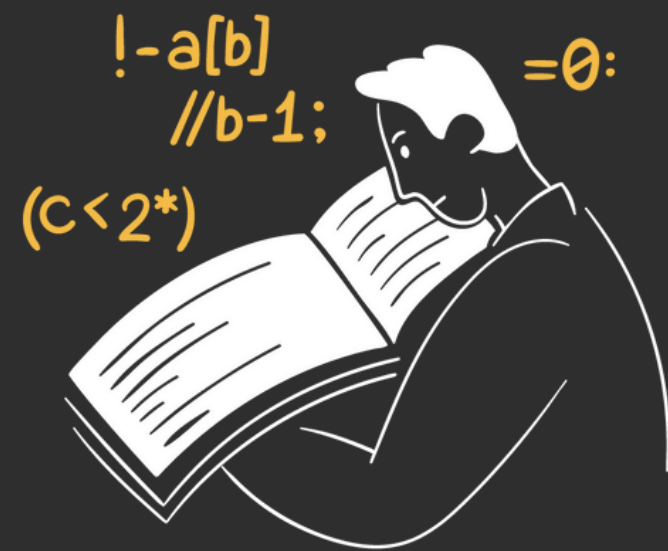


Learning



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Passion **Driven**



Learning

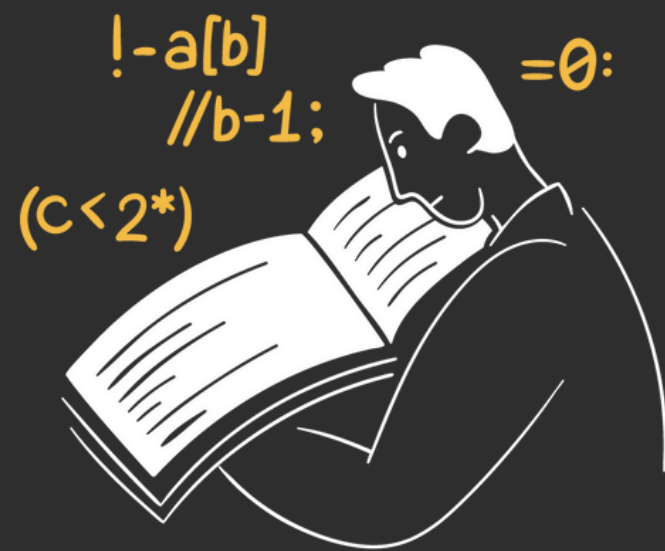


Curiosity



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Passion Driven



Learning



Curiosity



Actions





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Inspire





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Let's keep on helping





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Let's keep on **helping**



Help our peers





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Let's keep on helping



Help our peers



Help the users





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Let's keep on **helping**



Help our peers



Help the users



Help the business





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THANK YOU!

François Vergès, CWNE #180