Institute of Data

2022

Data Science and AI

Presenting Skills
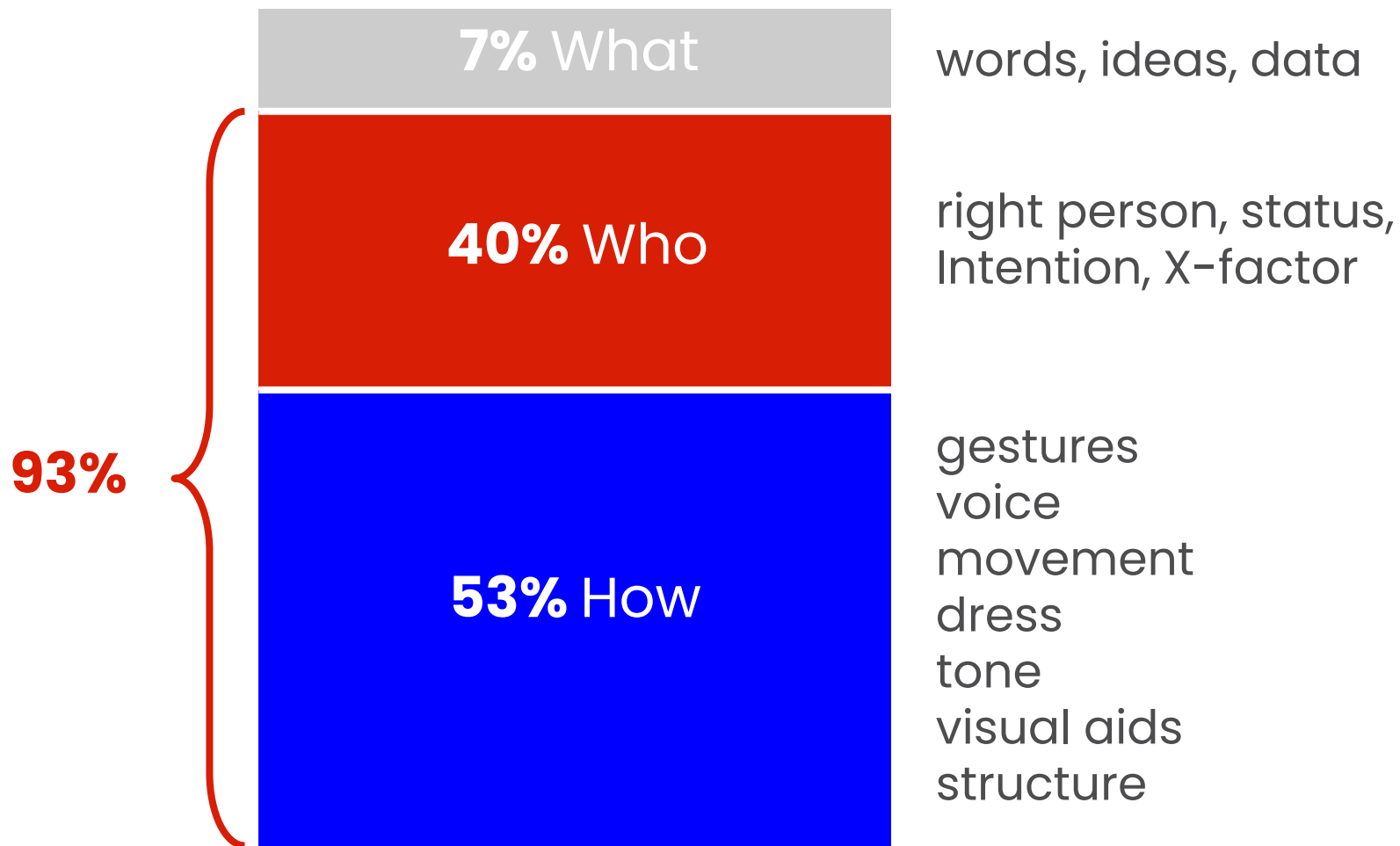
Agenda

1. Planning frameworks
2. Delivery techniques
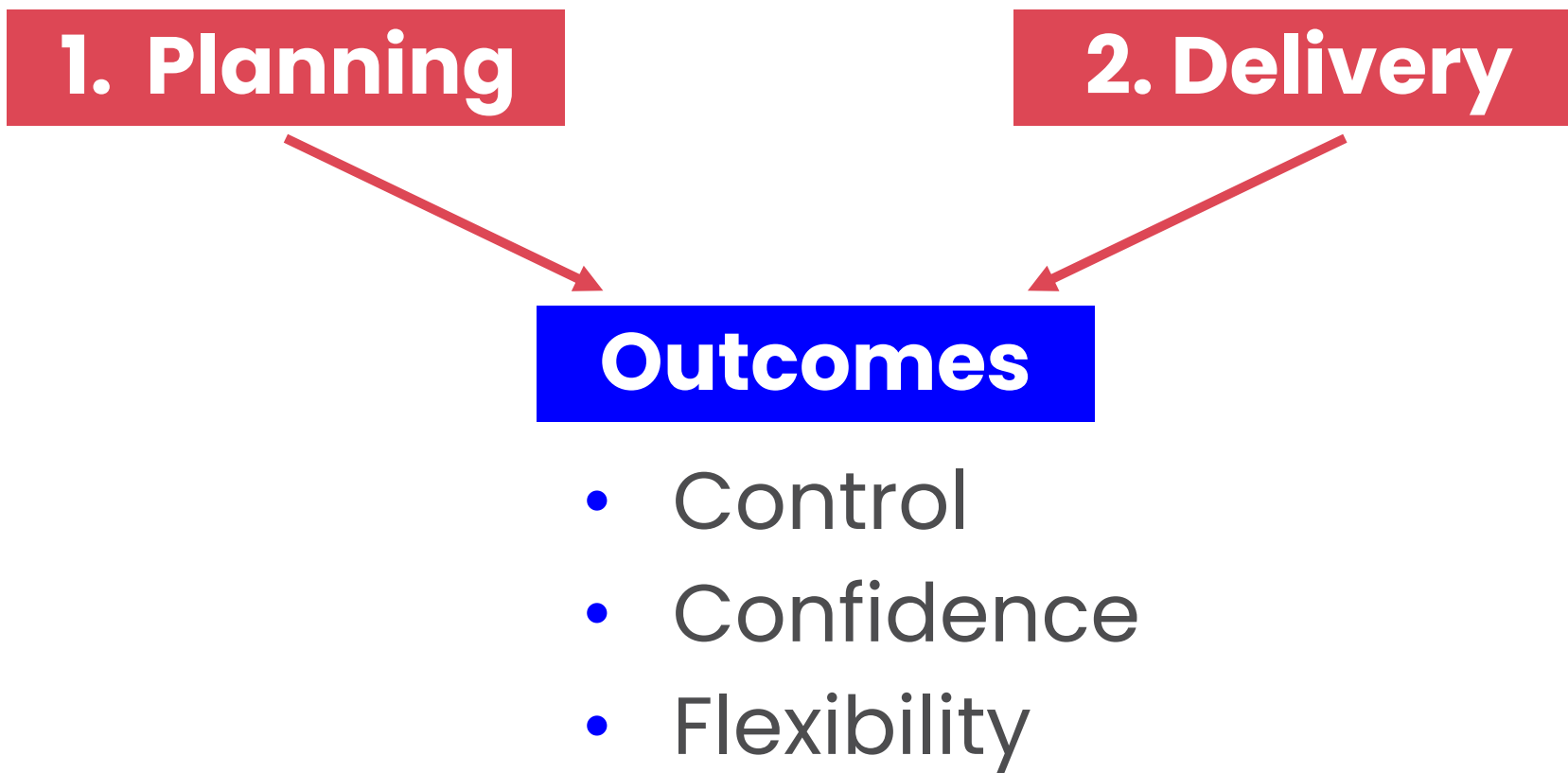3. Practical exercises

3

Impact and Effectiveness

7% What — words, ideas, data

40% Who — right person, status, Intention, X-factor

93%

53% How — gestures voice movement dress tone visual aids structure

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The two elements of a good presentation

1. Planning

2. Delivery

Outcomes

- Control
- Confidence
- Flexibility

Planning Frameworks

Presentation Formats

- Impromptu Outline
- Short Presentation Outline
- Formal presentation structure

Essential Stages of Presenting

1	Make sure the listener is ready to receive the message	**Beginning**
2	Communicate the message	**Middle**
3	Make sure the listener has received & understood the message	**End**

Impromptu Outline

1 Tell 'em what you're going to tell them | **Beginning**

2 Tell 'em | **Middle**

3 Tell 'em what you just told them | **End**

Short Presentation Outline

1 Subject	– State it		**Beginning**
2 Agenda	– Areas to be covered		
3 Body	– Cover each area		**Middle**
4 Summary	– Key idea from each area		**End**
5 Conclusion	– Main idea, next steps, recommendation		

Formal Presentation Structure

Opening Remarks

Creative opening | **Bridge**

Subject

Beginning

Agenda Item 1 → **Agenda Item 2** → **Agenda Item 3**

Lead-In	Lead-In	Lead-In
Body 1	Body 2	Body 3
Mini-Conclusion	Mini-Conclusion	Mini-Conclusion

Middle

Summary 1 → **Summary 2** → **Summary 3**

Conclusion

End
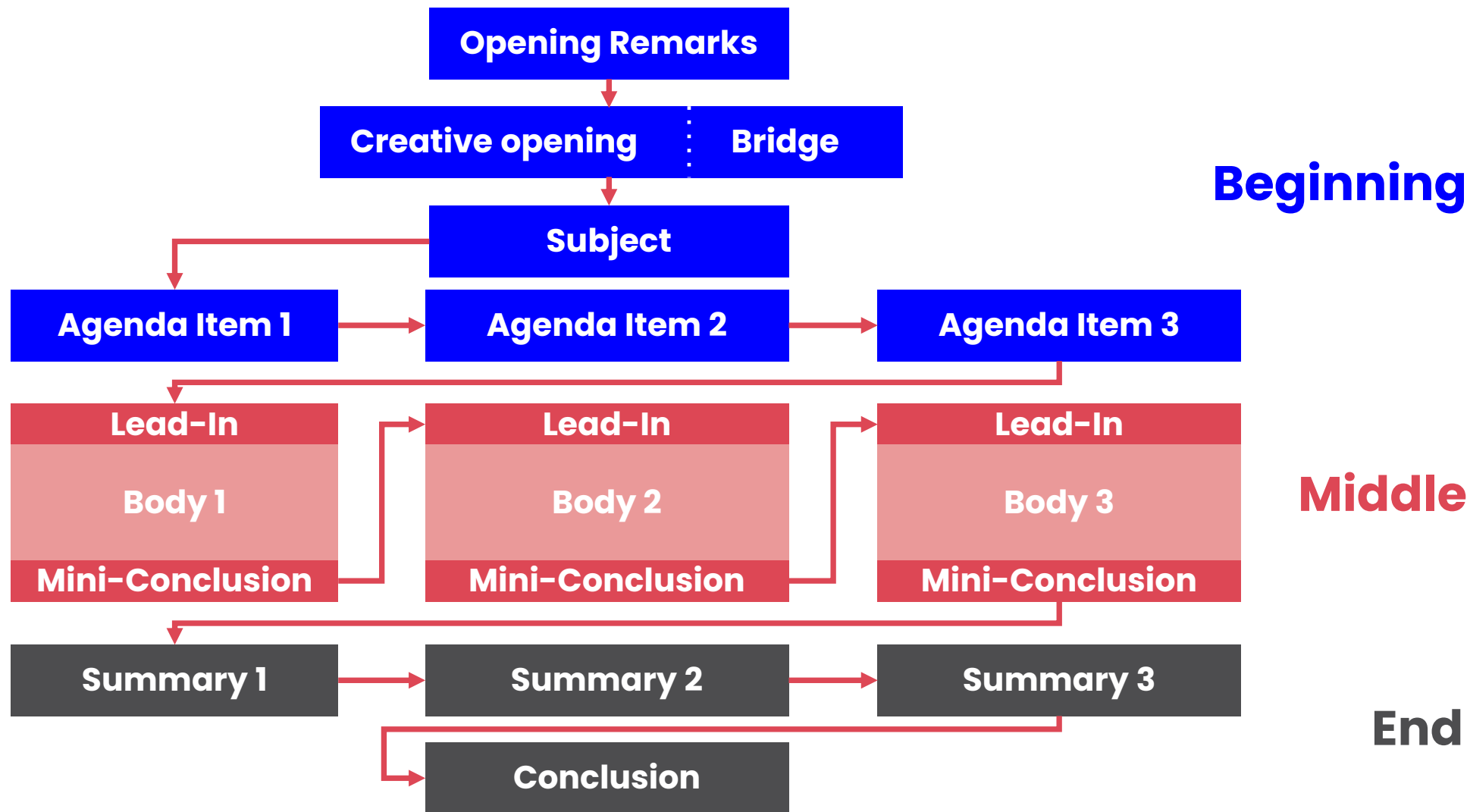
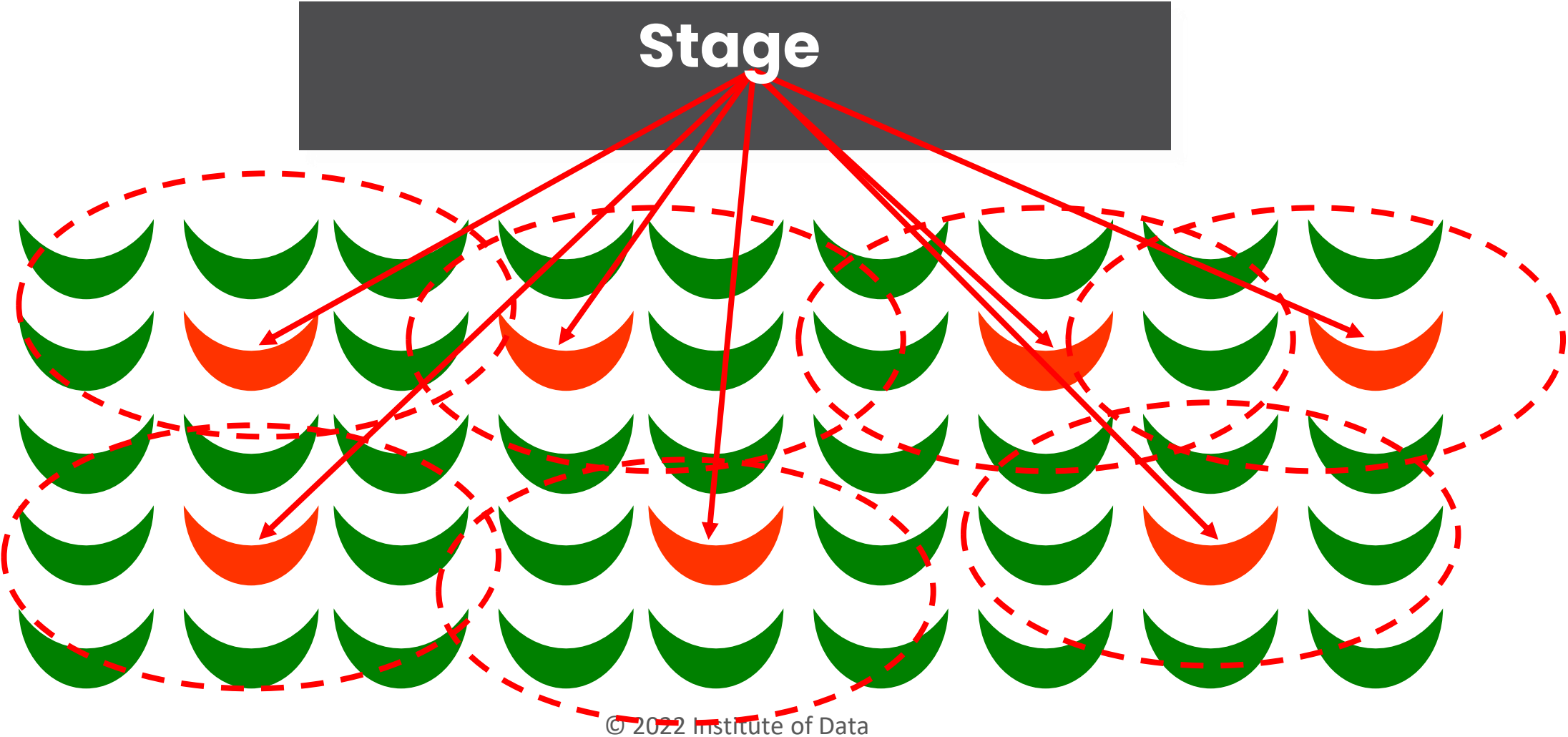# Delivery Techniques

The Impact of Eye Contact

Good Use	Poor Use
Trust Genuine Confidence You care Engage Show interest Competence Enthusiasm Authority	Dodgy Distrust
	Too Much
	Intimidating Unsettling Rude Overbearing

Public Speaking Eye Contact Clusters

Confident Manner

1. Eye contact
2. Use pauses and silence to your advantage - Say nothing instead of "Um"
3. Control your pace
4. Use hand gestures appropriately
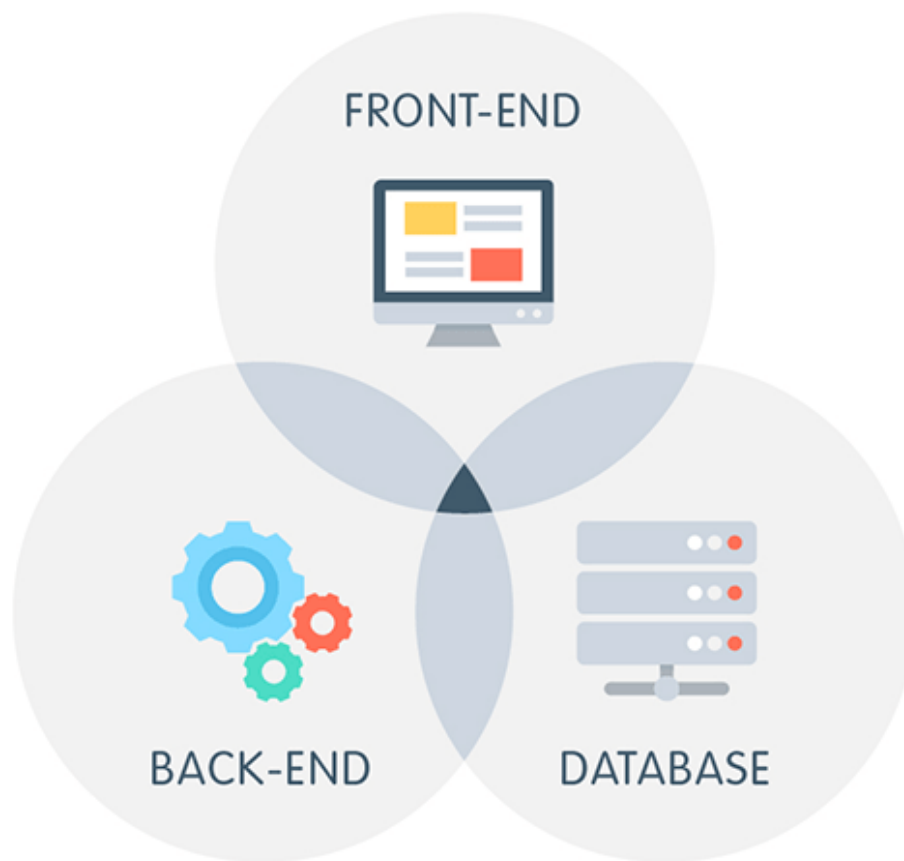5. Move to a new position to indicate a new idea

Exercise: Touch, Turn, Talk

- Touch - click the clicker
- Turn - to the audience
- Talk - make eye contact and deliver the message
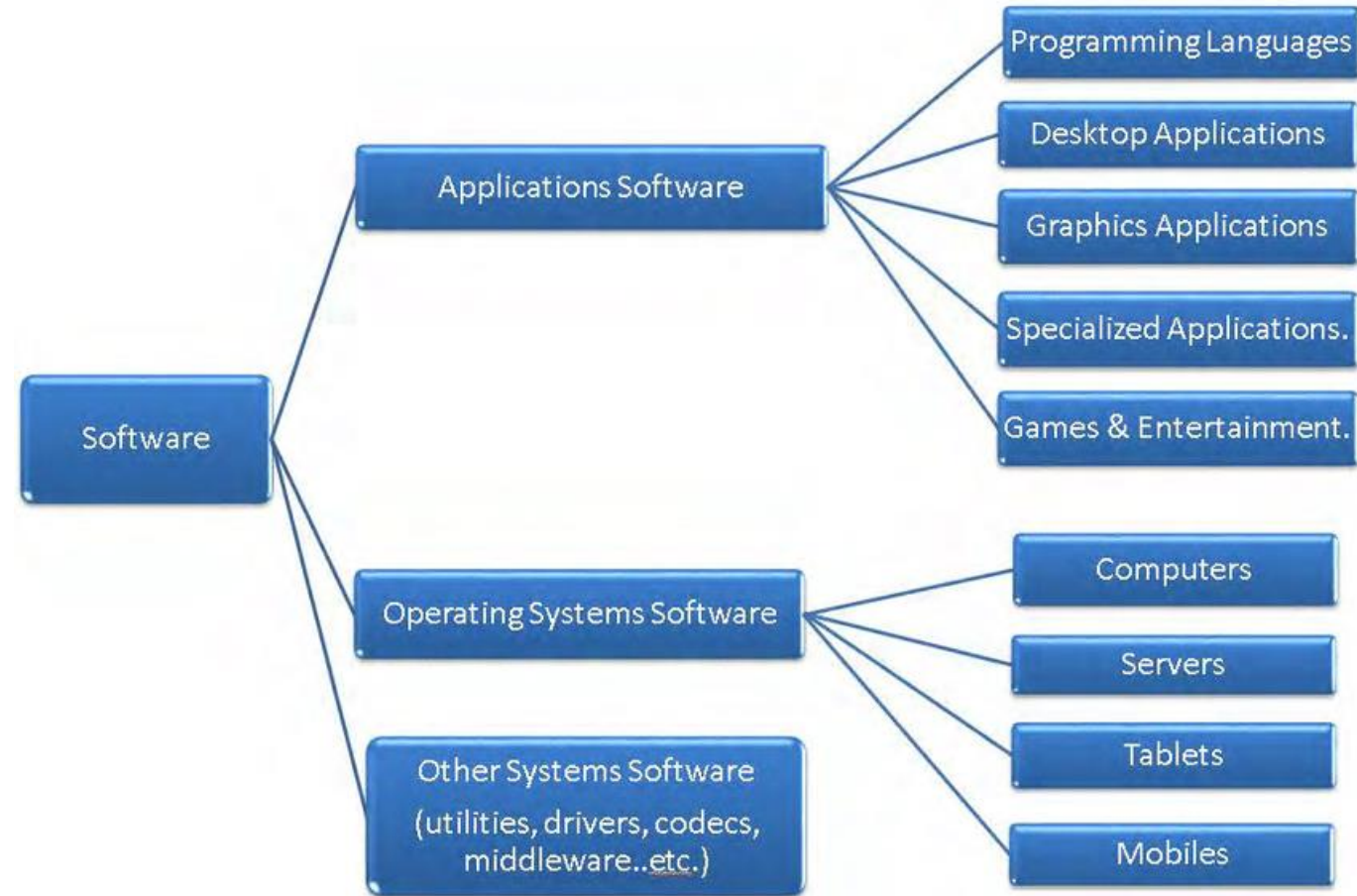
Present from one or more of the following slides

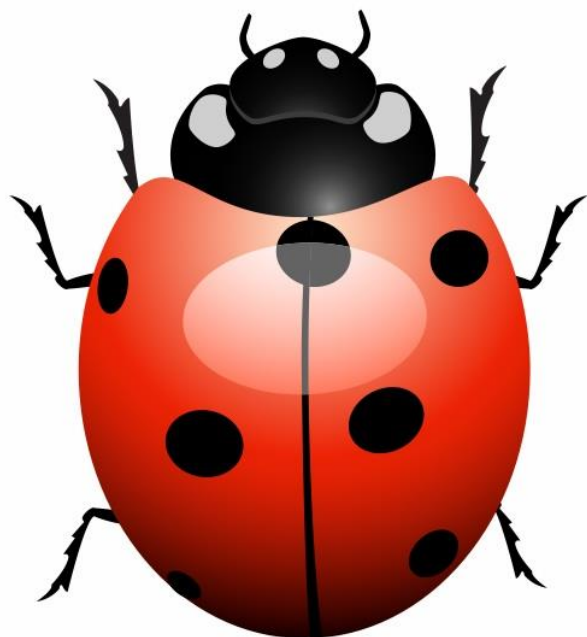# FULL-STACK DEVELOPMENT

Types of Software

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Why do bugs arise?

- Unclear Requirements
- Incorrect Requirements
- Complex design
- Poor skilled developer
- Complicated logic
- Insufficient time
- Less knowledge about product
- Poor skilled tester
- Changing requirements often
- Environment & System issues

www.letzdotesting.com

7 COMMON TYPES OF SOFTWARE TESTING

BLACK BOX TESTING
... test output of a given input...

WHITE BOX TESTING
... test the source code ...

ACCEPTANCE TESTING
... test what is expected vs. what actually happens

AUTOMATED TESTING
... recurring standardized tests with scripts ...

REGRESSION TESTING
... test to verify that the system still works the way it did before ...

FUNCTIONAL TESTING
... test all things related to functionality ...

EXPLORATORY TESTING
... test within certain areas, no specified test cases ...

usersnap

The Best
Backend Programming Languages

Most Used Programming Languages Among Developers Worldwide

Language	Share of Respondents (%)
JavaScript	67.7
Python	44.1
Java	40.2
PHP	26.2
Go	8.8
Kotlin	7.8
Ruby	7.1
Rust	5.1

■ Share of Respondents (%)
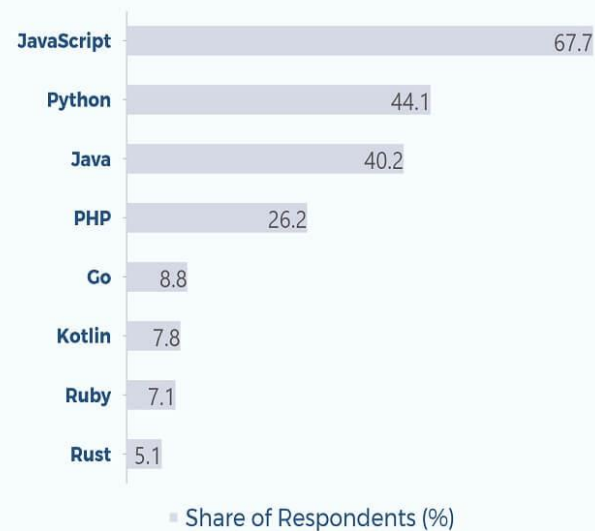
Source: A Survey Published by Shanhong Liu (2020)

Hype Cycle for Open-Source Software, 2020

API Management in Healthcare

AI Developer and Teaching Kits
AI Augmented Development
Swarming Robotics
Augmented Intelligence

AutoML
Container Management

Machine Learning
Open-Source Storage

In-Memory Data Grids
Agile Ops

OpenID Connect
Event Stream Processing
Cloud-Native Application Architecture
Arduino
DevOps Toolchain
Serverless PaaS
Computer Vision

Software Composition Analysis

Artificial General Intelligence

Blockchain
Reactive Programming
Continuous Software Deployment
OSS Testing Tools

expectations

As of July 2020

| Innovation Trigger | Peak of Inflated Expectations | Trough of Disillusionment | Slope of Enlightenment | Plateau of Productivity |

time

Plateau will be reached:

○ less than 2 years   ○ 2 to 5 years   ● 5 to 10 years   ▲ more than 10 years   ⊗ obsolete before plateau

3 things I like about Cats

Wrap up

Today we covered:

1. Planning frameworks
2. Delivery techniques
3. Practical exercises

Do that and you'll present with Impact and Effectiveness.

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Exercise: Capstone Project Presentation

- Revise Capstone Presentation in light of short presentation outline or formal presentation structure
- Present!