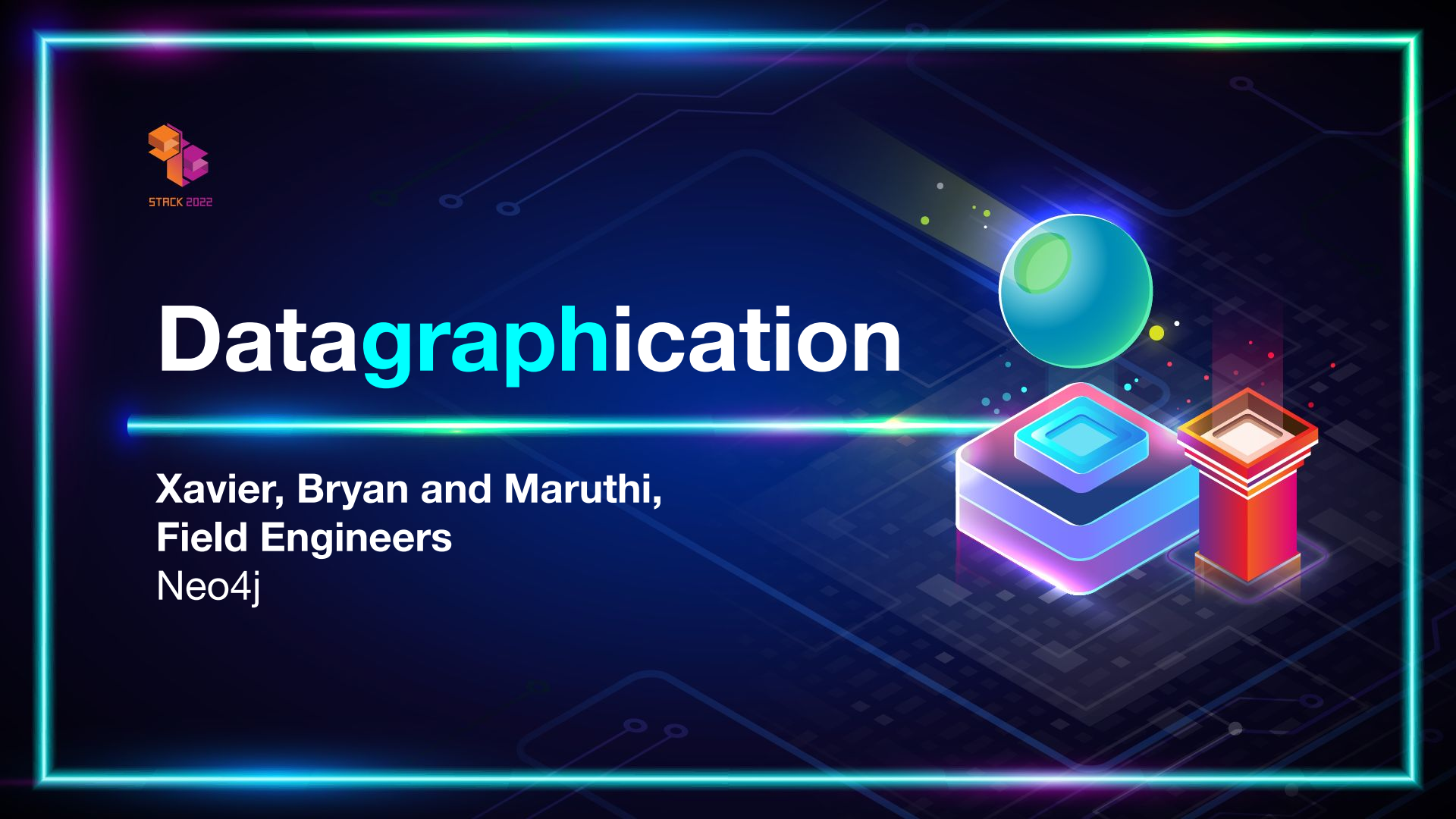
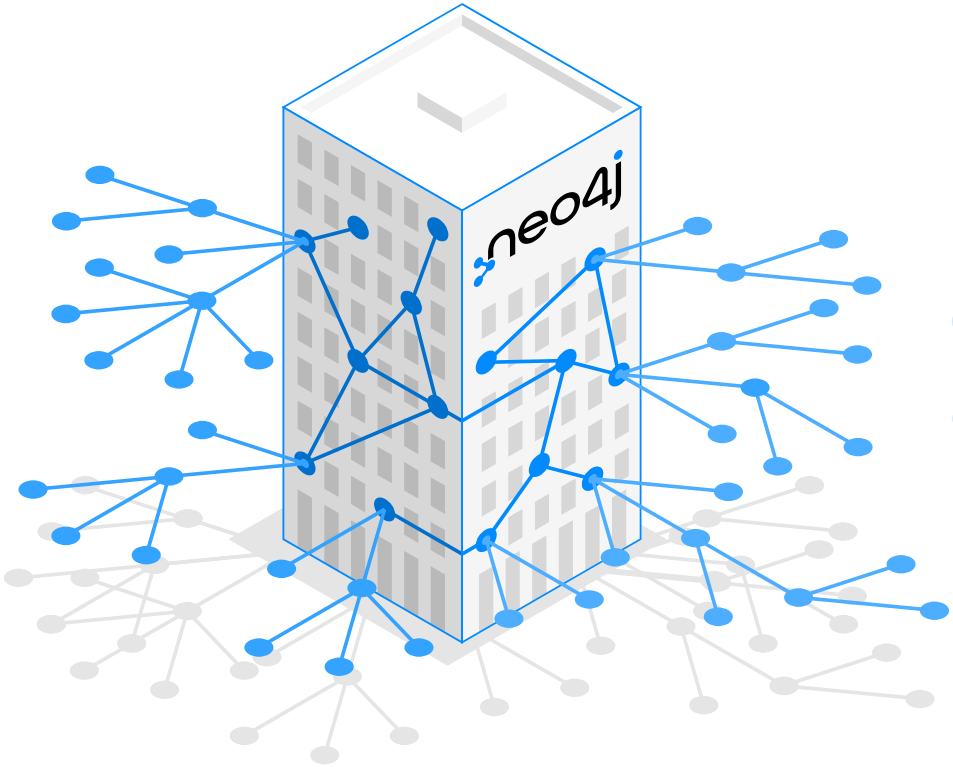


Datagraphication

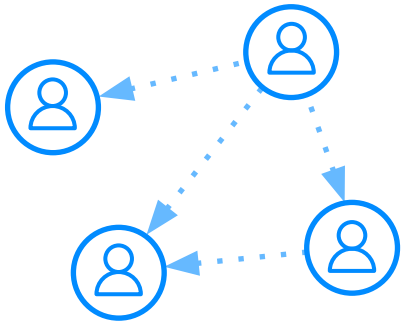
Xavier, Bryan and Maruthi,
Field Engineers
Neo4j



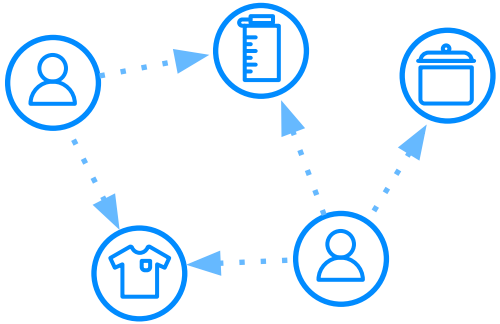
Everything is Connected and Graphs are Everywhere

Graph technology unifies data relationships in a more intuitive, connected state, unlocking deeper context

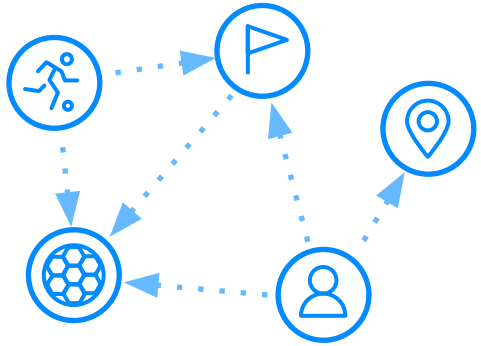
Shifting from data-driven to intelligence-driven



People
E.g., Employees, Customers, Suppliers, Partners, Influencers



Transactions
E.g., Purchases, Payments, Bookings, eCommerce



Knowledge
E.g. Enterprise / Domain content, Risk Management, Supply Chain

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Neo4j, the graph company

Creator of the **Property Graph** and **Cypher** language at the core of the **GQL** ISO project

Thousands of Customers World-Wide

HQ in **Silicon Valley**, offices include **London, Munich, Singapore, Paris & Malmo**

STRONGEST COMMUNITY

41k+

LinkedIn Skills

220k+

Developers

72k+

Meetups

https://graphacademy.neo4j.com/

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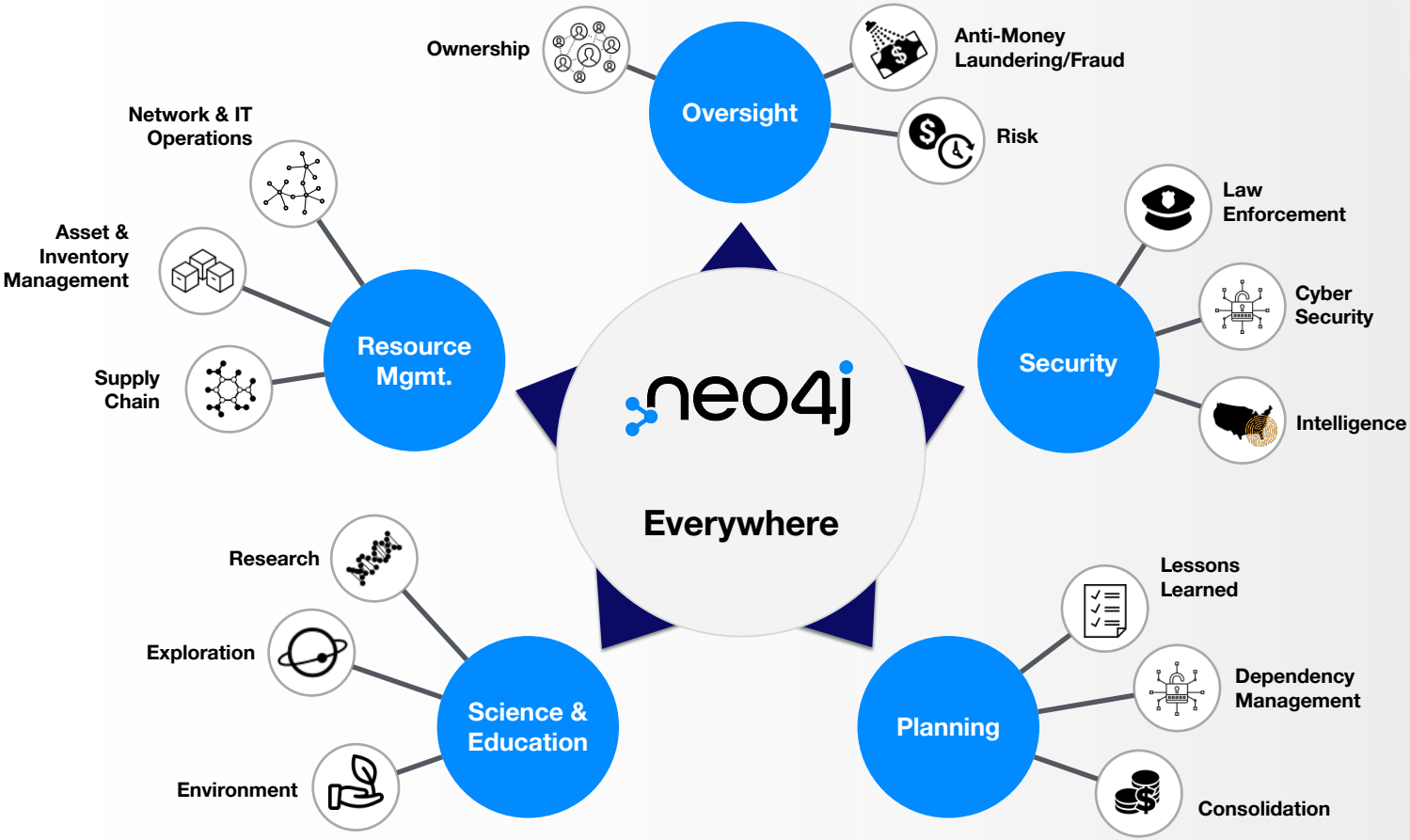
Neo4j, use cases



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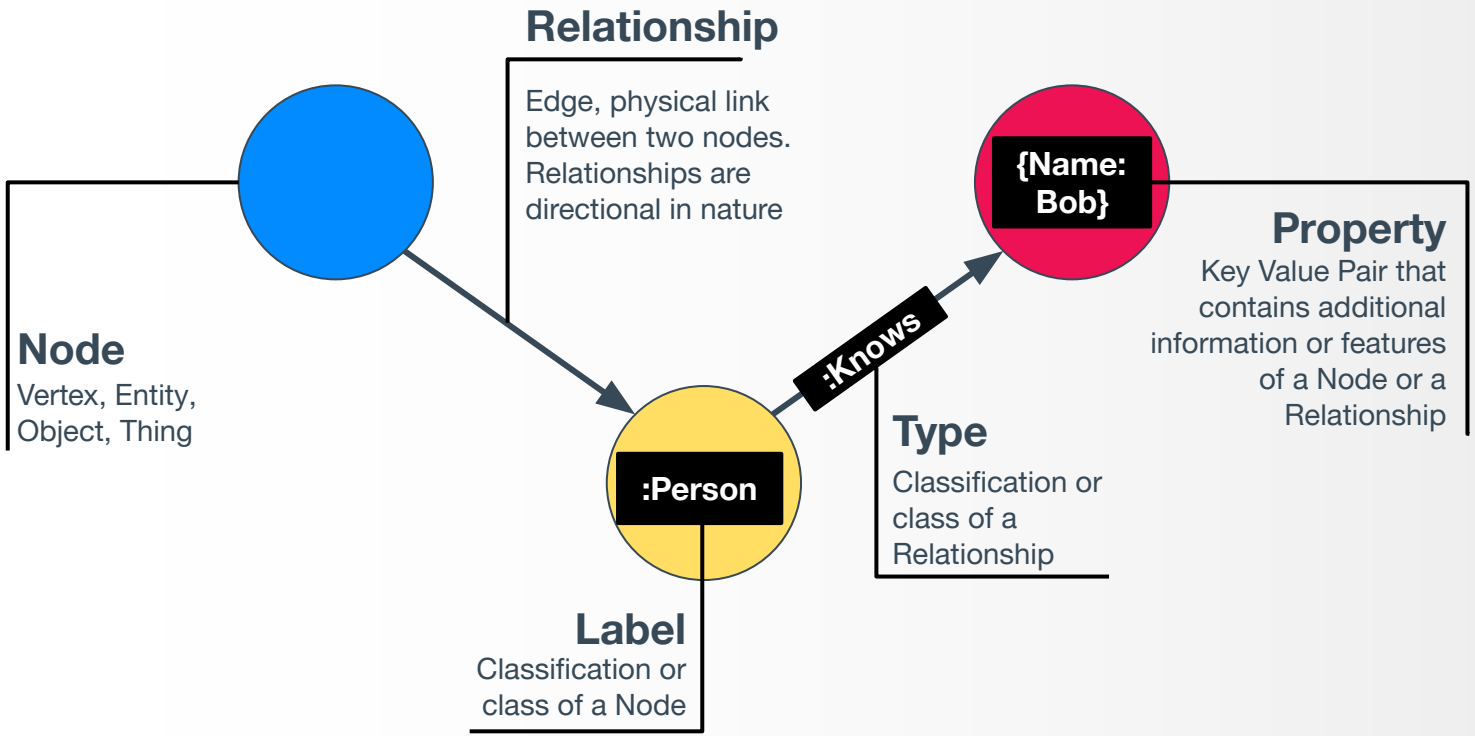
Graphs

“It’s not a technology, it’s a mindset”

Building blocks of Labelled Property Graph (LPG)



7

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How to speak Graph: Cypher

1. ASCII Art code styling
2. It's a Declarative language
3. Similar to SQL, but not SQL!

Example:

```
(:Person {name: 'Ann'}) -[:OWNS]-> (:Car {brand: 'Volvo'})
```

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Workshop

Load differents dataset to find more and more insights

Step 1 - Setup your own graph database

1. Go to https://bit.ly/free-graph-db
2. Create an account
   2.1. Put your email and a password
3. Click on the **link** of the verification email just received
4. Click on **Dashboard** once verified
5. Agree on the Term Policy
6. Select
   6.1. AuraDB Free
   6.2. Change the name but you can keep Instance01
   6.3. Keep the region as Singapore
   6.4. Click on **Empty database** option
   6.5. Click on **Create Instance**
7. You will get the password of your instance: **make sure you save it somewhere (notepad, file, email…)**. Tick the checkbox and click on continue
8. “Et voila !” your instance is ready to be used in a few minutes!

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Step 2

Load your first dataset

https://bit.ly/graph-step2

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Step 3

Load another dataset

https://bit.ly/graph-step3

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Step 4

Let’s add a last dataset

https://bit.ly/graph-step4

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Final step

Link everything for new insights

https://bit.ly/graph-final_step

Takeaways

- You started your journey into Graphs
- You have an up and running Graph database
- You know the language used for Graphs
- You can load a csv file and runs some queries

What’s next is up to you…

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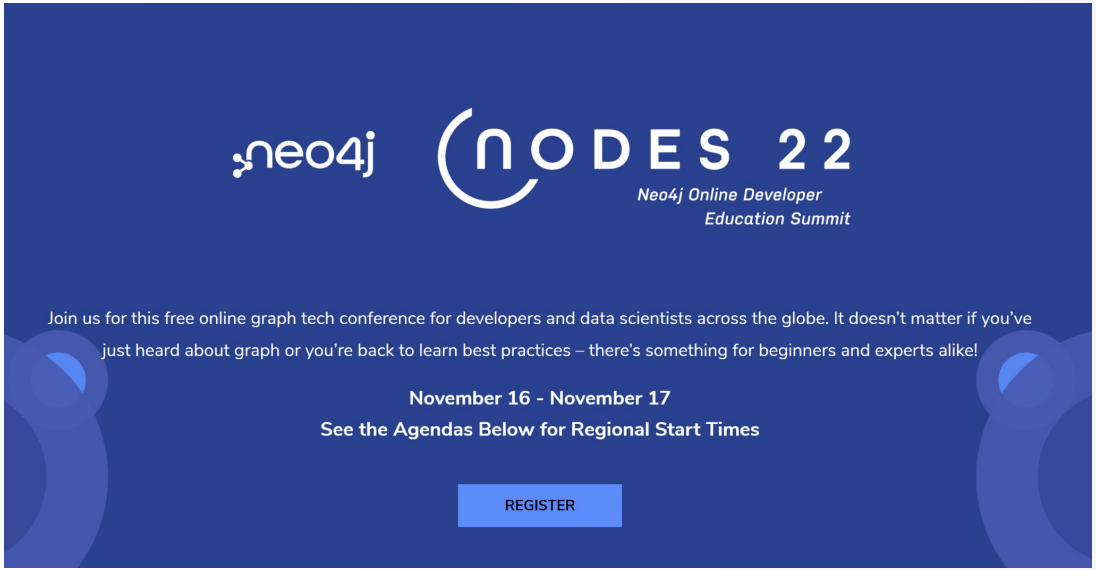
Nodes 2022



https://hopin.com/events/nodes-2022/registration

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THANK YOU

Brought to you by
Government Technology Agency

Engaging like-minded through STACK

GovTech's developer community

Join us @

go.gov.sg/stackxtelegram

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Singapore Government Developer Portal

We are looking for passionate individuals to join us as STACK advocates

Benefits

- Be one of the first to provide feedback to help improve our products
- Meet developers behind the products
- Engage senior government leaders

Register your interest at
go.gov.sg/stackadvocatereg

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Singapore Government Developer Portal

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Your feedback matters!

Upon completion, show the survey's thank you page to the STACK team stationed outside of the workshop rooms to collect your swag!

https://go.gov.sg/stack2022-workshop-feedback

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Title - Lorem ipsum

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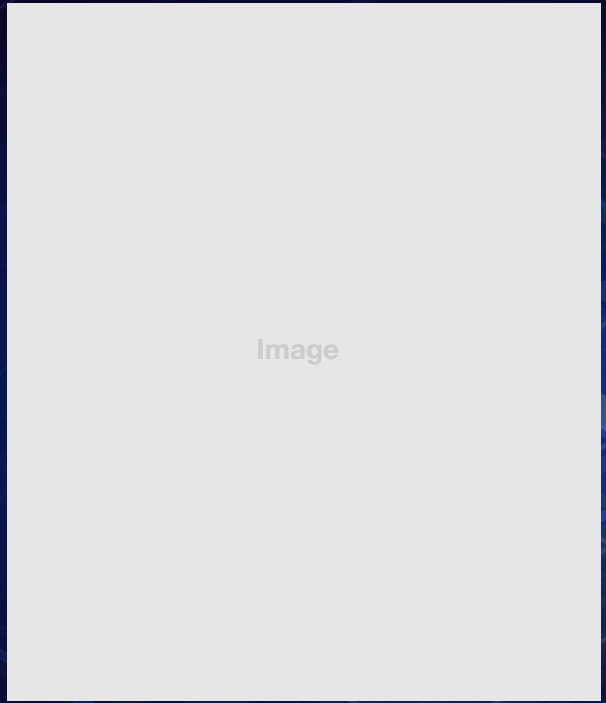

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Divider Title

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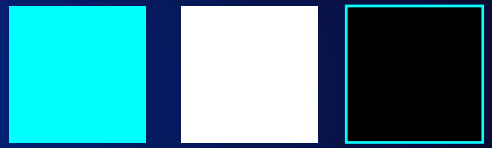
Instructions

Font & Colour

Fonts

All Header copy are set in Helvetica Bold
All Body copy are set in Helvetica

Colours



Minimum Size

Header – 25 pts
Body Copy - 16pts

Maximum Size

Header - 45pts
Body Copy - 18pts

Fonts for Speaker Notes*

Recommended size 16 - 18 pts