



Databricks 200 Workshop

Intro to Python

Dan Davis – Databricks

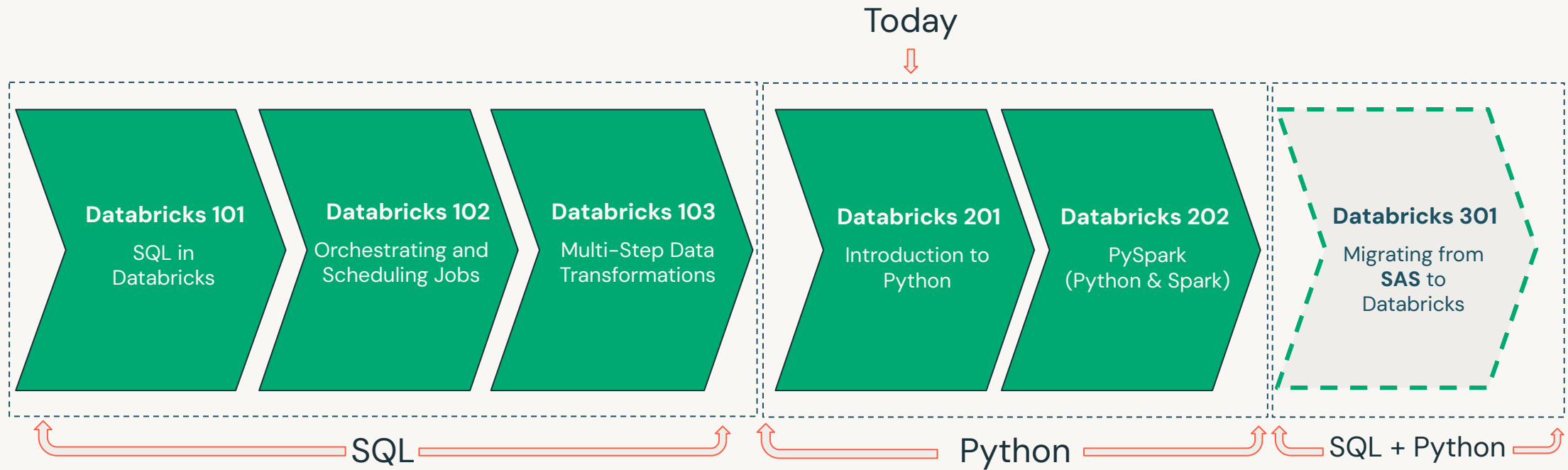


Learning Objectives

Things you'll be able to do after this course

- Use Python basics
- Use Python built-in data types and functions
- Manipulate various data structures
- Utilize Databricks Workspace as a programming environment

SAS Enablement Pathway



Databricks Resources

Start here

Start here today: [Analyst Enablement Workspace](#)

Start here for resources: [D&A Reference Hub](#)

Other Resources

- Databricks Free [Self-Paced Learning](#)
- Databricks Paid [Instructor-Led Learning](#)
- KP Insights: [Coursera](#)
- D&A Reference Hub: [Python Training Guide](#) (List of online Python courses)
- D&A Reference Hub: [Copilot Chat Instructions](#) (AI Assisted Code Generation)

What is Python?

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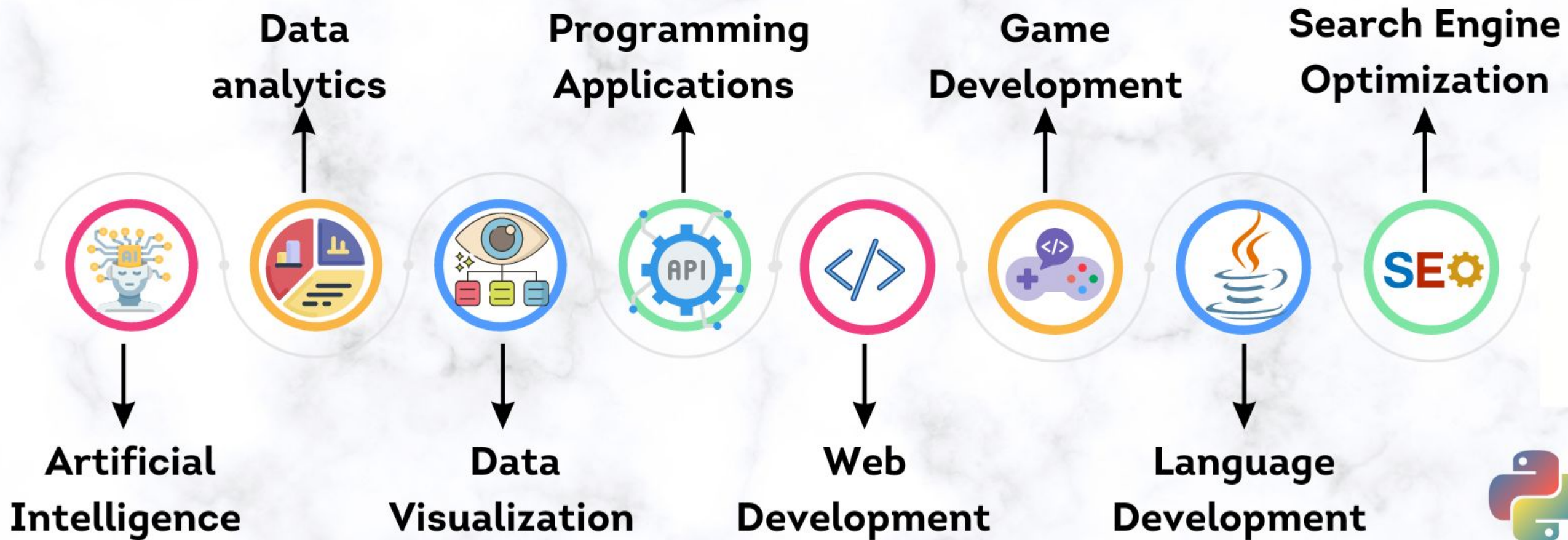
- A **multi-purpose language** with a **simple**, and **beginner-friendly** syntax
- Object-Oriented
- **Fastest** growing language in the world
- Contains other widely used **libraries**:
 - **Library**: Pre-written code and functions that extend basic functions of Python
 - NumPy: Mathematics library
 - Pandas: Data analysis, manipulation, and processing.
 - Matplotlib: Visualizations library
 - Scikit-learn: ML library
 - TensorFlow: Deep learning library

Why Python?

Why Python?

- **Broad Adoption & Community Support**
 - Huge community, low barrier to entry
 - Fastest growing language in the world
 - Simple to read, understand and use
- **Flexibility & Integration**
 - Open Source & Free
 - Cross-Platform, portability
 - Databricks, Spark and other platforms
 - APIs & Automation
- **Rich Ecosystem of Libraries**
 - So many libraries!
- **Career Upside**
 - Python skills are in high demand!

What is Python used for?



Python in Databricks

Recap

What did we cover today...

- Data Types (e.g. strings, integers)
- Variables
 - `a = 1`
- Print Statements
 - `print("hello world")`
- F-string formatting
 - `print("hello world")`
- Conditions: if statements
 - `If else`
- Functions
 - `Def my_function()`
- Dataframes

Python Resources at KP

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