An introduction to version control – Lesson overview
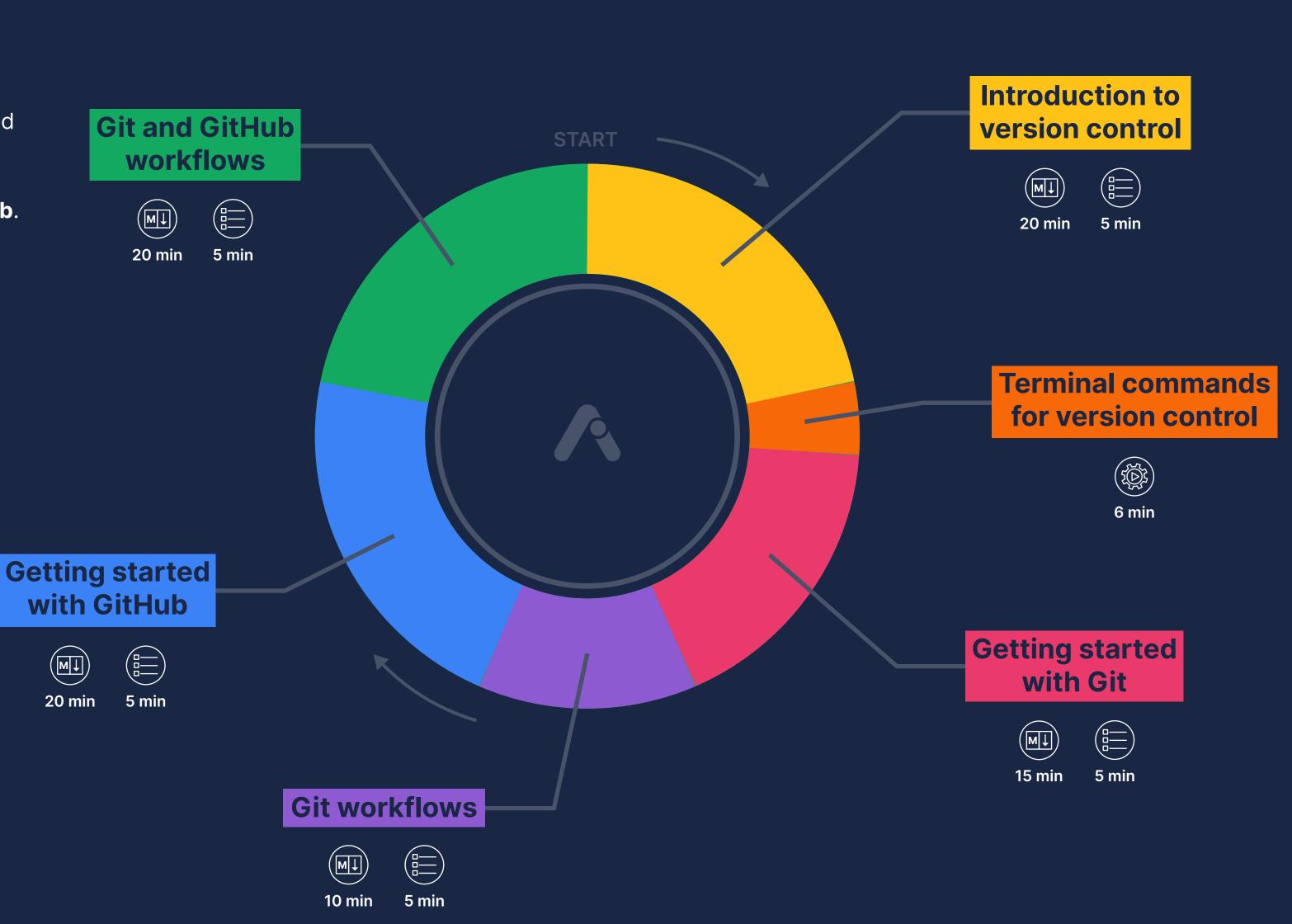
Data science and data engineering projects often **require multiple people to contribute code** to a project simultaneously, or in a short sequence. A **remote repository** for code can **alleviate a lot of the complexity** that comes with such projects, as it provides a way to ensure **version control**, **collaboration** and **transparency** in the project's history.

In this lesson, we'll learn **how to use version control with GitHub**.

Learning objectives

- Explain the importance and fundamental concepts of version control.

- Utilise basic Git commands in the terminal to manage and track changes in your code.

- Apply Git operations to manage branches, merge changes, and configure the development environment for efficient workflow.

- Implement various Git workflows for team collaboration and resolve conflicts in a multi-developer environment.

- Integrate Git with GitHub for remote collaboration.

Markdown

Knowledge questions

Walk-through

Git and GitHub workflows

20 min   5 min

START

Introduction to version control

20 min   5 min

Terminal commands for version control

6 min

Getting started with GitHub

20 min   5 min

Getting started with Git

15 min   5 min

Git workflows

10 min   5 min