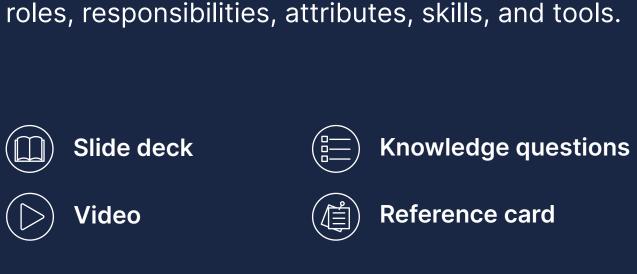
## An introduction to data science - Lesson overview

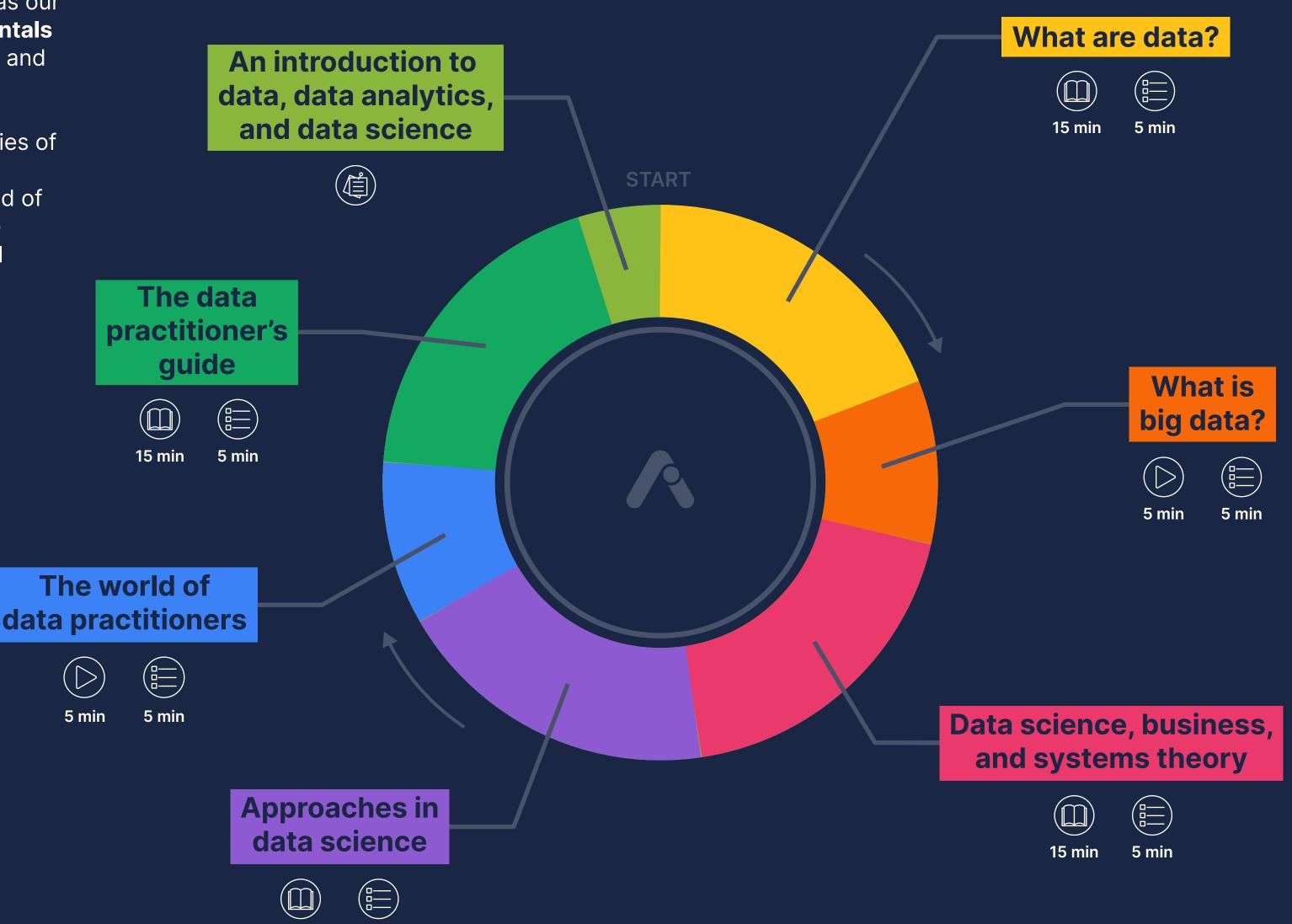
The world of data is vast and dynamic, constantly changing as our access to information increases. Understanding the fundamentals of data enables us to craft insights, make informed decisions, and unlock transformative opportunities.

In this lesson, we'll embark on a journey to unravel the mysteries of data, big data, data-driven exploration and analysis, data science, and the diverse roles in the world of data. By the end of this lesson, you will know what data and big data are, how we approach data analysis and data science to derive meaningful insights, and understand the in-demand attributes, skills, and tools of data professionals.

## Learning objectives

- Understand what data are and how we can leverage it in decision-making.
- Understand what big data is, why it is important, and describe the characteristics of it.
- Know the data analysis and data science processes and how they differ.
- Know some of the fundamental data professional roles, responsibilities, attributes, skills, and tools.





5 min

15 min