

For Aptech Centre Use Only

Session 9

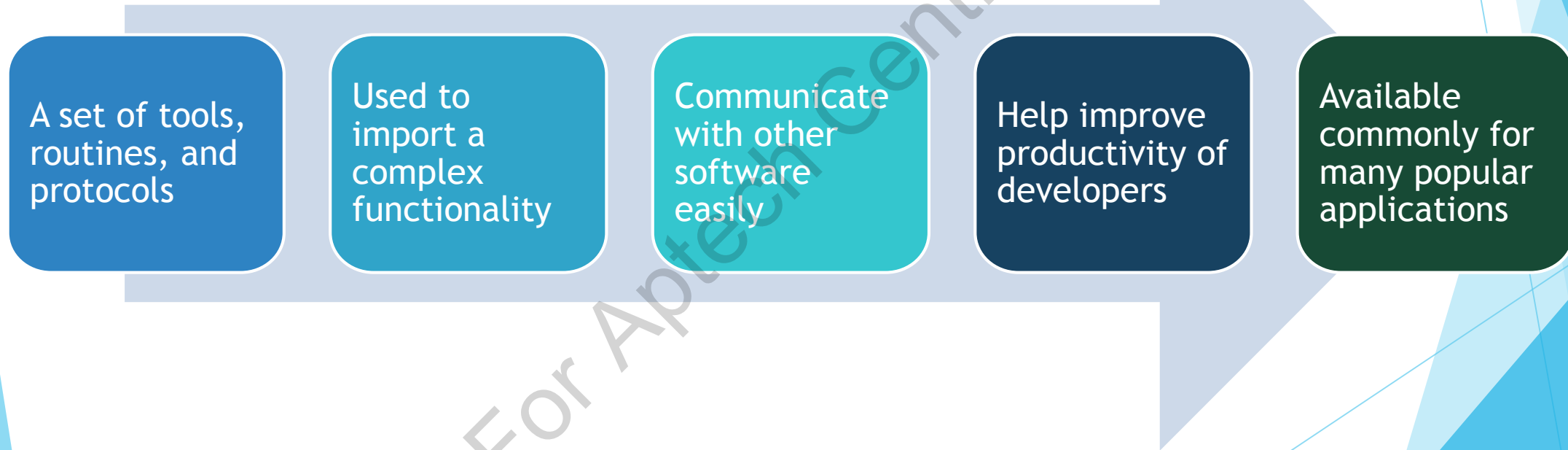
Using Responsive APIs in JavaScript

Objectives

By the end of this session, students will learn to:

- ▶ Define Responsive API
- ▶ Describe how an API works
- ▶ Explain the uses of APIs in JavaScript
- ▶ Describe how to use responsive APIs

Overview of Responsive APIs



APIs in JavaScript

Many APIs available for JavaScript are built on core JavaScript language.

Browser APIs

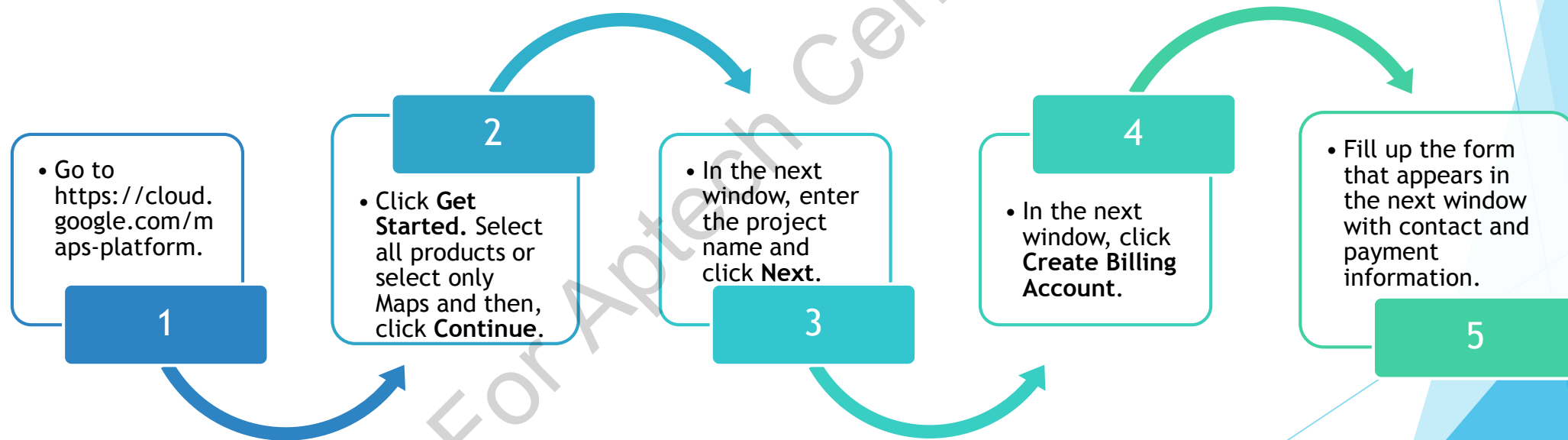
- The Geolocation API is one good example of a browser API.

Third-Party APIs

- A counter used in Websites to count the number of visitors is an example for third-party APIs.

How Do APIs Work?

- ▶ JavaScript code interacts with APIs using JavaScript objects. Objects that act as containers for API data and methods are used to implement functionalities.
- ▶ To create an account and retrieve the API key, follow these steps:



Using Responsive APIs

Responsive APIs play an important role in providing an improved user experience and performance. Few responsive APIs are explained as follows:

Page Visibility API

Online/Offline API

Device Orientation API

Navigation Timing

Session Summary

- ▶ APIs are used to implement complex functionalities such as importing a map, identifying the orientation of the device used to access the Web page, and so on.
- ▶ APIs are available as built-in functionality in browsers as well as provided by third parties.
- ▶ Geolocation API provided by Google helps to find location of a device.
- ▶ Responsive APIs improve performance of Web pages that are particularly accessed on mobile devices.
- ▶ Many responsive APIs are available for JavaScript such as Page Visibility, Page online/offline, Device orientation, and Navigation Timing.