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Introduction to Using Angular Services for Data Access

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In Angular, Services are reusable singleton objects that provide an easy way to organize and share logic throughout your application, in addition to separating logic from your controllers. They are application-wide, and once created, can be used in any other service or controller.

Angular Services can be injected into any controller or directive, and wired together with the standard Dependency Injection.

In addition to creating controllers and directives, Angular also supports creation of singleton data access services.

Data access Services come in three forms:

- Service
- Factory
- Provider

Provider versus Factory versus Service

Essentially, Provider, Factory, and Service are all Services. A Factory is a special case of a Service when all you need is a `$get()` function, allowing you to write it with less code.

Here is a summary of when to use each:

- Factory: The value you are providing needs to be calculated based on other data.
- Service: You are returning an object with methods.

- **Provider:** You want to be able to configure, during the config phase, the object that is going to be created before it's created. Use the Provider mostly in the app config, before the app has fully initialized.

Note: The major differences among Services, Factories, and Providers are their complexities. Services are the simplest form, Factories are a little more robust, and Providers are configurable at runtime.

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