# Getting Data From the Internet 🔖

Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

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### 1. Which of the following are required to load and display an image with coil?
*Choose as many answers as you see fit.*

- ☐ A placeholder image
- ☐ An error image
- ☑ The URL of the image ✓ Correct!
- ☑ An `ImageView` ✓ Correct!

### 2. Match the element of HTTP requests and responses to the correct term.
*Each answer only matches one item.*

| Status Message | OK ▾ | ✓ Correct! |
| --- | --- | --- |
| Status Code | 200 ▾ | ✓ Correct! |
| HTTP Verb | POST ▾ | ✓ Correct! |
| Content-Type | application/json ▾ | ✓ Correct! |

### 3. Which of the following are characteristics of a RESTful service?
*Choose as many answers as you see fit.*

- ☑ Stateless ✓ Correct!
- ☐ JSON responses
- ☑ Client-server-architecture ✓ Correct!
- ☑ Resources exposed as URIs ✓ Correct!

### 4. Which of the following are needed to make a network request with Retrofit?
*Choose as many answers as you see fit.*

- ☑ Add the `android.permission.INTERNET` permission to the manifest ✓ Correct!
- ☑ Include Retrofit Gradle dependency ✓ Correct!
- ☑ Supply a base URL to the `Retrofit.Builder` object, ✓ Correct!
- ☐ Add coil library as a Gradle dependency.

### 5. Why do you declare `DataProviderManager` with the `object` keyword?
*Choose as many answers as you see fit.*

- ☑ To make this object a singleton ✓ Correct!
- ☐ A shared object provides a convenient way to store state
- ☑ You only need one instance of the object. ✓ Correct!
- ☐ `DataProviderManager` is an object and not a class.

### 6. Which of the following are true about grid layouts?
*Choose as many answers as you see fit.*

- ☑ By default, a grid layout scrolls vertically ✓ Correct!
- ☑ A grid layout is ideal for lists that can be represented as icons or images ✓ Correct!
- ☐ A span is equal to the width of one row

☑ You can reference the object by its type name, `DataProviderManager` .  ⊘ Correct!

**7. In the URL https://google.com/search?q=android, /search is called the ___.**

◯ Host

⦿ Path  ⊘ Correct!

◯ Query

◯ Parameters

**8. Which of the following are true about binding adapters?**
*Choose as many answers as you see fit.*

☐ A binding adapter only provides an alternate way to set a hardcoded value.

☑ Binding adapters allow you to implement custom logic for how layout attributes are assigned.  ⊘ Correct!

☐ The `@BindingAdapter` annotation requires the view as an argument

☑ `@BindingAdapter` methods process custom values that are provided to XML attributes.  ⊘ Correct!

**9. True or False: Retrofit creates the code required to make network requests based on a web service.**

⦿ True  ⊘ Correct!

◯ False

**10. The Moshi library requires the following to successfully process JSON in Kotlin.**
*Choose as many answers as you see fit.*

☑ A data class describing the structure of the JSON object.  ⊘ Correct!

☑ `KotlinJsonAdapterFactory()` added to the `Moshi.Builder` object.  ⊘ Correct!

☑ A `MoshiConverterFactory` added to the `Retrofit.Builder` object.  ⊘ Correct!

☐ All properties in the data class marked with the `@JSON` annotation.

## Results

You scored **10 out of 10**. Congratulations! You have passed this quiz.

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