

# Lesson: 5

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## List Views and Spinner Views

# Objectives

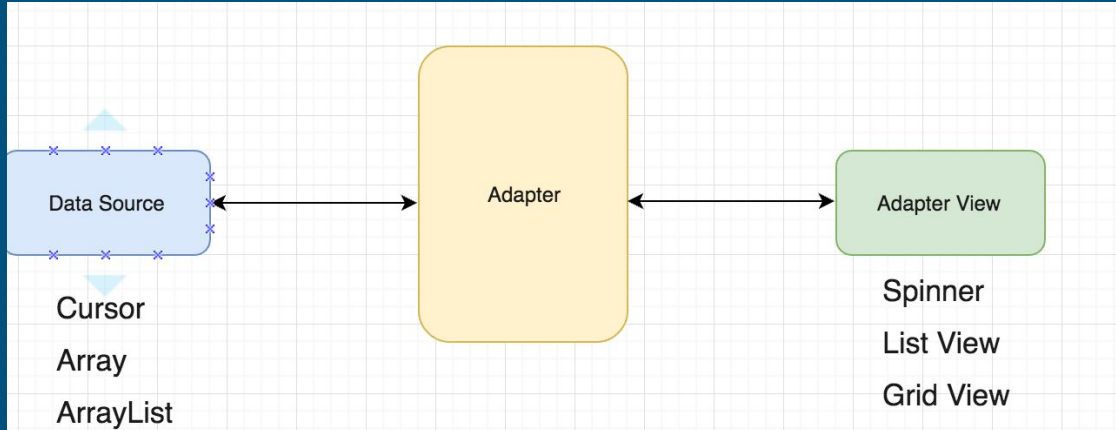
- Using Spinners.
- Using List Views in Layouts.

# Adapter Views, introduction.

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- An **Adapter View** is a *View* Object. Which means it can be used in a user interface the same way we use other Views
- It cannot show / display content on its own, like other Views do.
- It's contents are determined by another object, an **adapter**

# Adapter, Adapter View & Data



# Adapter Views, Examples

First Name

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Second Name

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City

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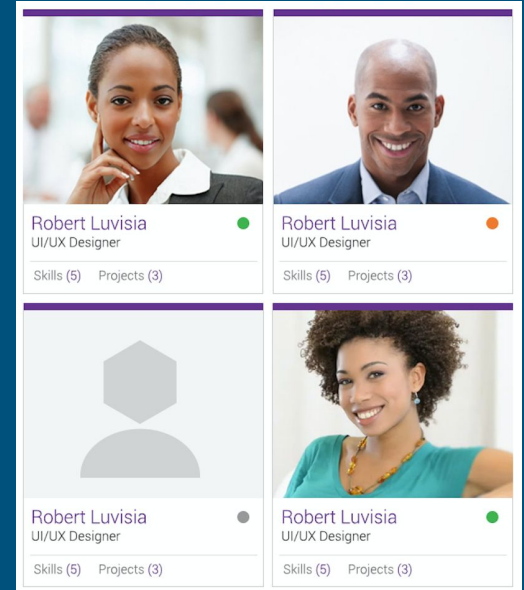
Country

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Spinner View

| Bio           | 9 Skills | 14 Projects |
|---------------|----------|-------------|
| SQL           |          |             |
| Java          |          |             |
| JavaScript    |          |             |
| C#            |          |             |
| C++           |          |             |
| Python        |          |             |
| PHP           |          |             |
| Ruby on Rails |          |             |
| iOS/Swift     |          |             |

List View



Grid View

# Adapter?

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- An adapter is a class that implements the *Adapter* interface.
- Acts as a link between the *data set* and the *adapter view*.
- Data sets:
  - Arrays
  - List Objects
  - Cursor Objects

# Adapter?

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- The adapter's work is to **retrieve data** from the **data set** and **create the view objects** for the adapter view bound to it.
- Examples (provided by SDK):
  - **Array Adapter**
  - **Simple Cursor Adapter**

# Creating array Adapter.

```
String[] langs = {  
    "Java",  
    "JavaScript",  
    "SQL",  
    "C++",  
    "C#"  
}
```

```
<string-array name="langs">  
    <item>SQL</item>  
    <item>Java</item>  
    <item>JavaScript</item>  
    <item>C++</item>  
    <item>C#</item>  
</string-array>
```

```
ArrayAdapter<String> langAdapter =  
    new ArrayAdapter<String>(this,  
        R.layout.item,  
        R.id.cheese_name,  
        langs  
    );
```

or

```
ArrayAdapter<String> langAdapter =  
    new ArrayAdapter<String>(this,  
        R.layout.item_layout,  
        R.id.text_name,  
        getResources().getStringArray(R.array.langs)  
    );
```



# Creating the List View

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- Use the `list_view_name.setAdapter(adapter_name);`

# Labs & Questions

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