

Boot Camp Introduction to Adobe AIR

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Files needed for this boot camp

Download <http://corlan.org/bootcamp/>

Have Flex Builder installed

What is Adobe AIR?

Adobe AIR enables web developers to use existing web technologies to build and deploy rich Internet applications on the desktop



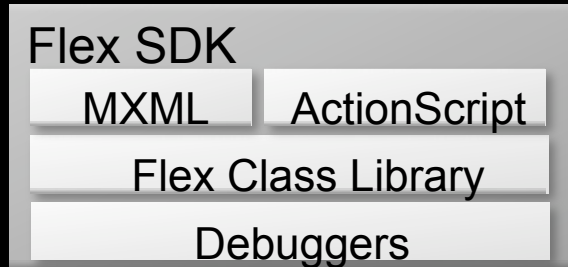
Today's goals

- Make the first steps in working with the Flex Framework & Flex Builder to create Adobe AIR apps
- At the end of this course you should know:
 - Find your way in the Flex Builder IDE (run/debug/design view/package the AIR application)
 - First taste of ActionScript3, MXML, and Flex SDK
 - Communication between the client and the server
 - Understand data binding and the asynchronous nature of Flex

Adobe AIR Application Stack

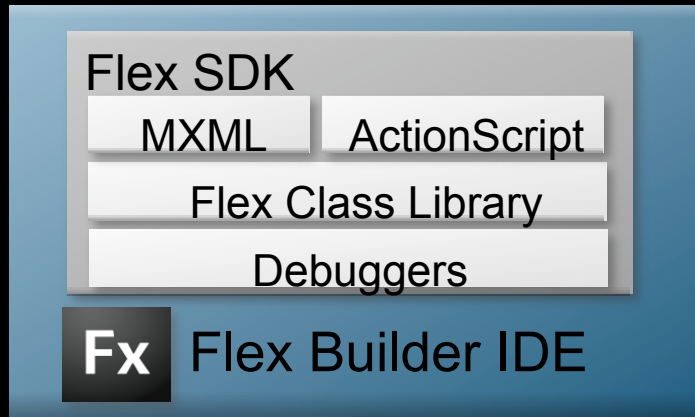


What is Flex?



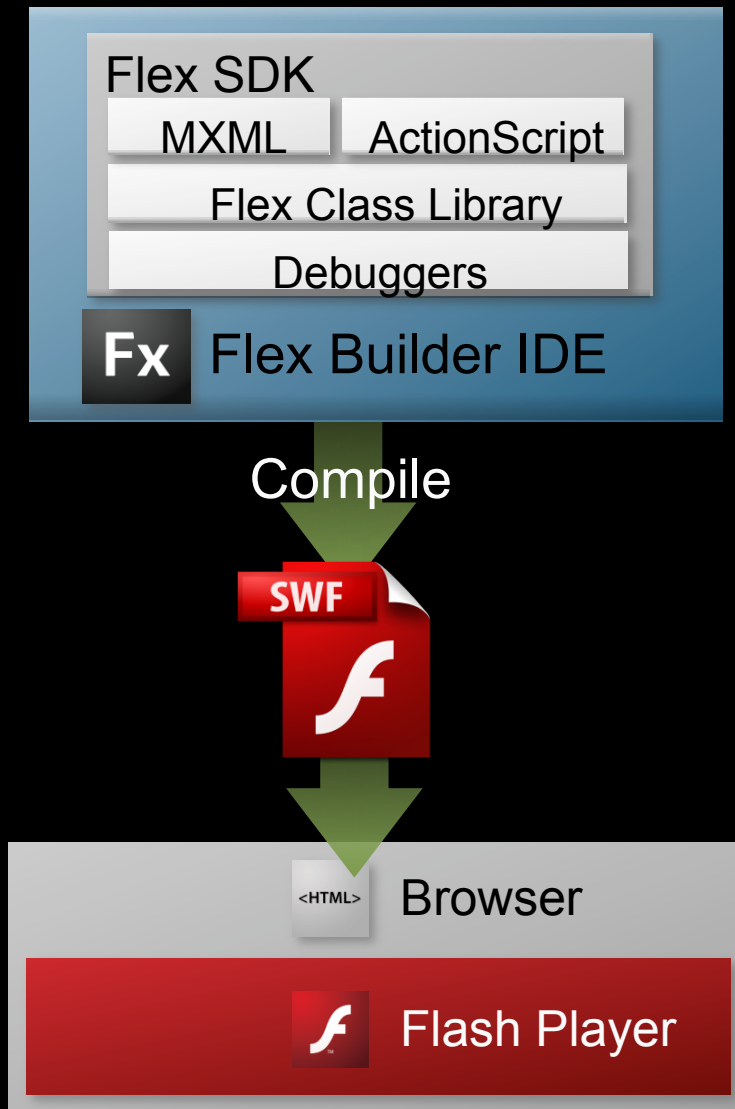
- Flex SDK
 - 2 languages
 - MXML
 - ActionScript 3
 - Compilers
 - Rich Component Library
 - Debuggers

What is Flex?



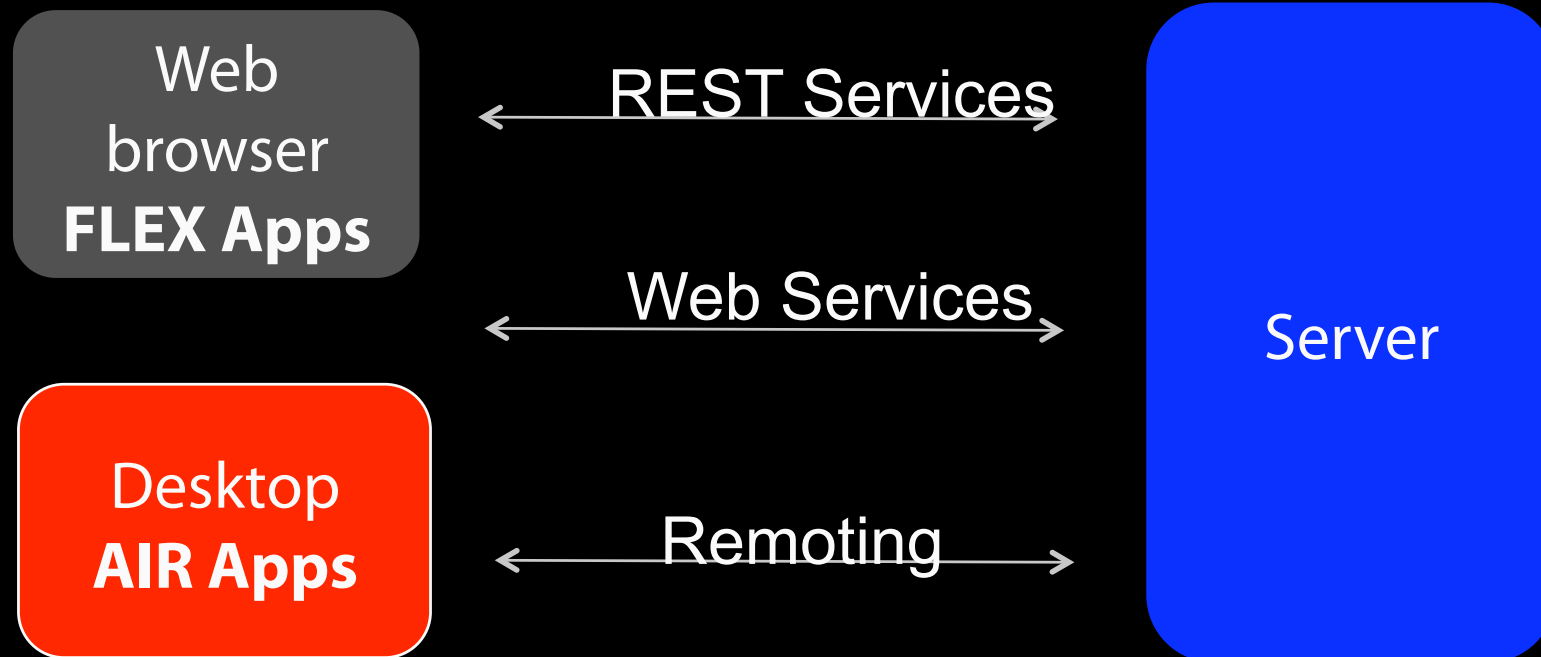
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- Flex Builder IDE
 - Eclipse Plug-in or turn-key install
 - Accelerates Design and Development
 - Design view and code view

What is Flex?



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 - MXML
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Communication between Flex/AIR and Server



How does remoting work?

Flex/AIR Client

AMF3

PHP Server

```
MyClass {  
  
    getData() { ... }  
    saveData($myVO  
    ) { ... }  
  
}
```

How does remoting work?

Flex/AIR Client

AMF3

PHP Server

RemoteObject

```
getData();  
saveData(myV  
O);
```

Client calls
MyClass->getData()

```
MyClass {  
  getData() { ... }  
  saveData($myVO  
  ) {...}  
}
```

How does remoting work?

Flex/AIR Client

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PHP Server

RemoteObject

```
getData();  
saveData(myVO);
```

Client calls
MyClass->getData()

MyClass {

```
getData() { ... }  
saveData($myVO)  
{...}
```

MyVO {

```
public var id:int;  
public var  
name:String;
```

Automatic conversion
between PHP and
ActionScript class

MyVO {

```
public $id;  
public $name;
```

}

How does remoting work?

Flex/AIR Client

AMF3

PHP Server

```
RemoteObject
```

```
getData();  
saveData(myVO);
```

```
MyVO {
```

```
public var id:int;  
public var  
name:String;
```

Client calls
MyClass->getData()

Server sends an array
of MyVO objects

Client calls
RemoteObject.saveData(myVO)
MyClass->saveData(\$myVO)

```
MyClass {
```

```
getData() { ... }  
saveData($myVO  
) {...}
```

```
MyVO {
```

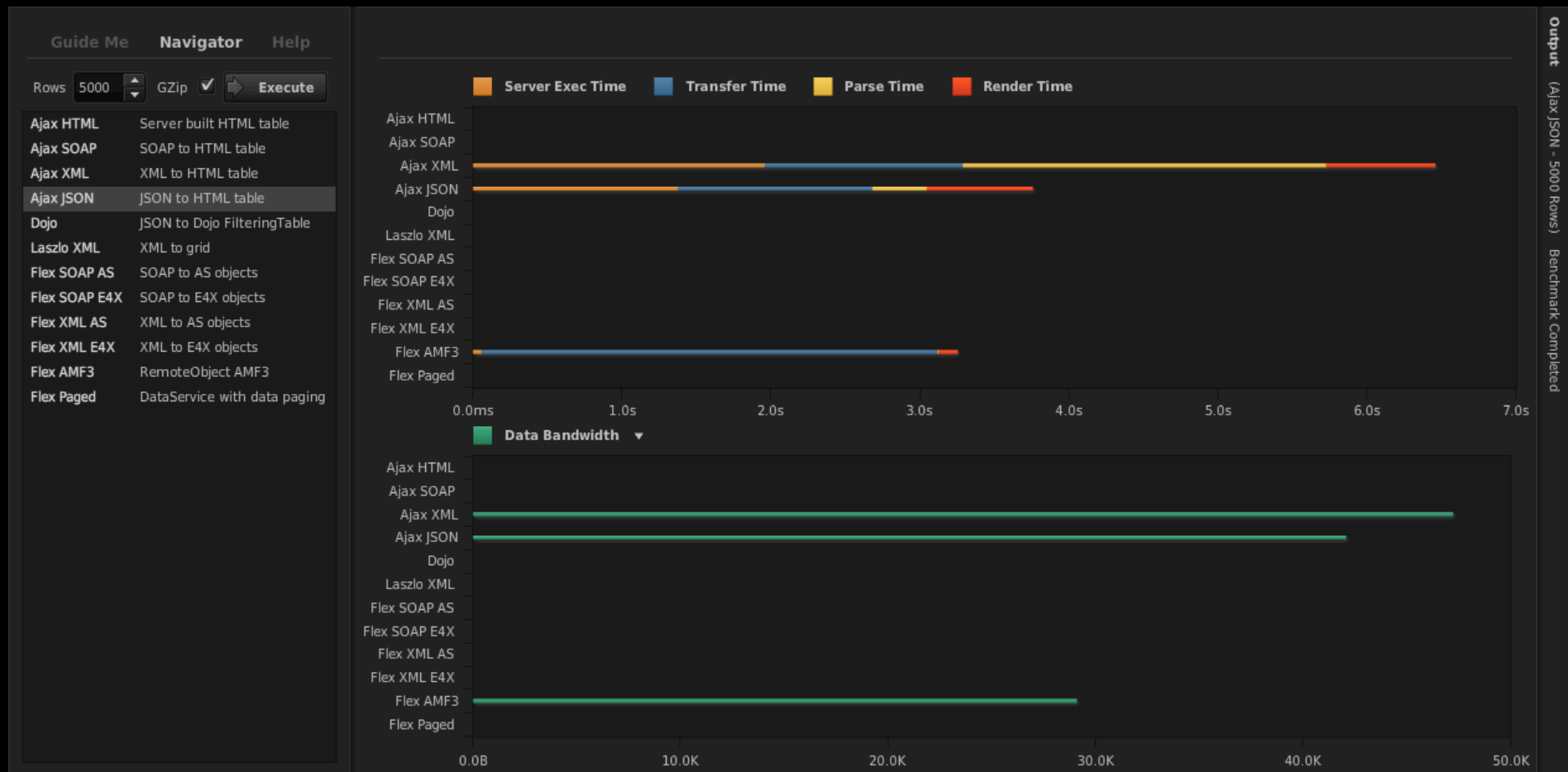
```
public $id;  
public $name;
```

Automatic conversion
between PHP and
ActionScript class

```
}
```

REST vs. AMF?

<http://www.jamesward.com/census/>



Further information

- Adobe Labs:
<http://labs.adobe.com/>
- Adobe Developer Connection:
<http://www.adobe.com/devnet/>
- Mihai Corlan
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Adobe