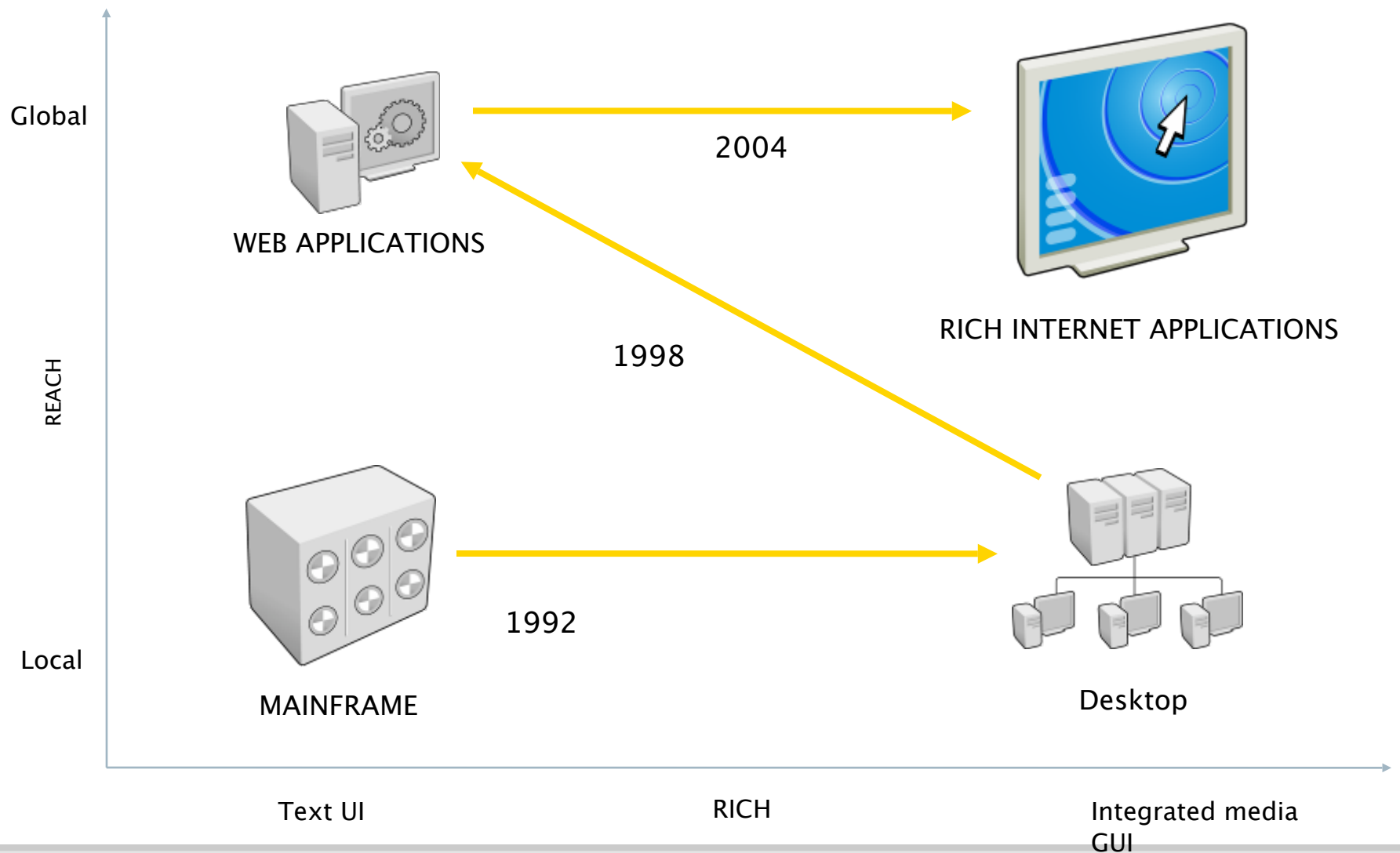
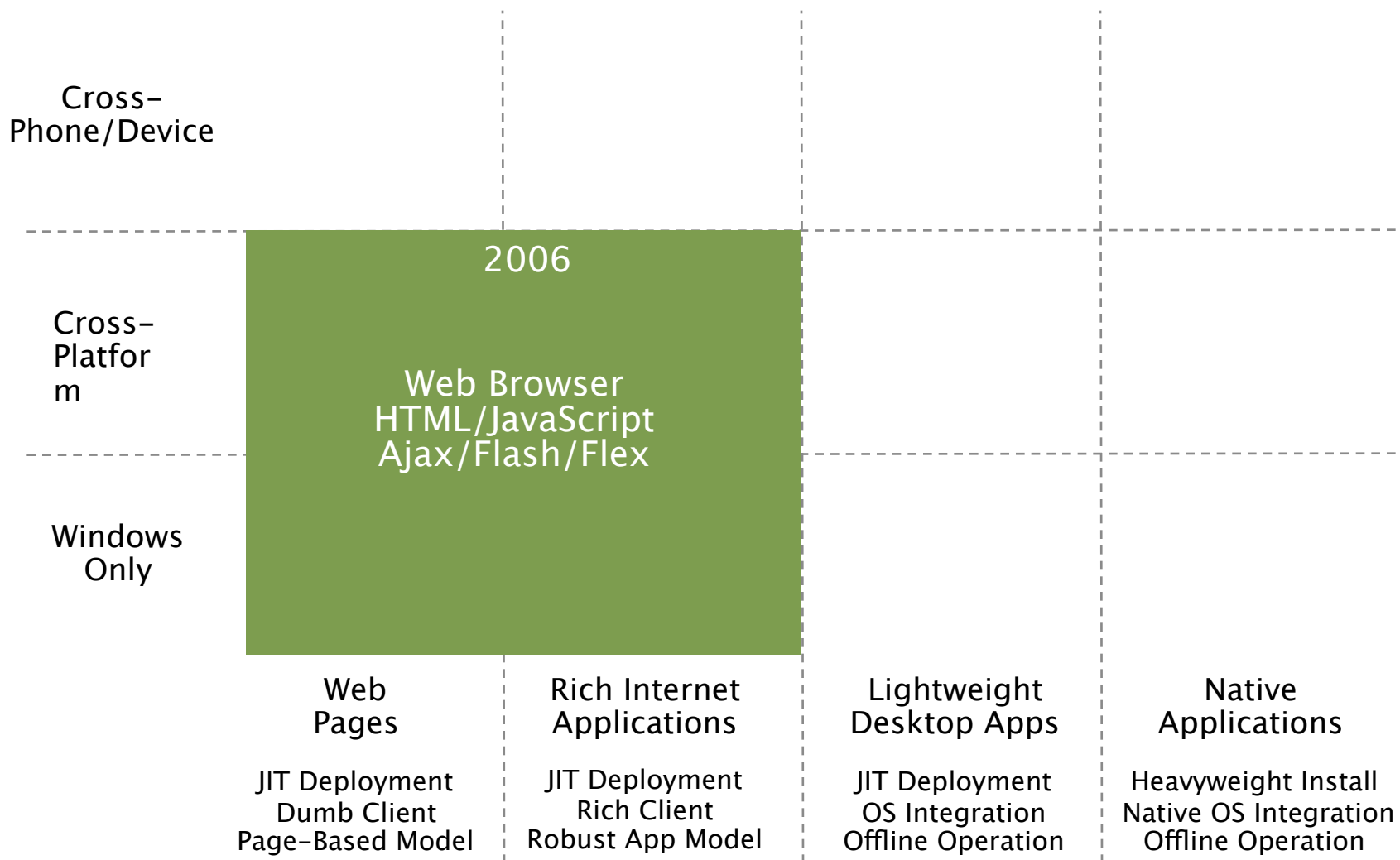


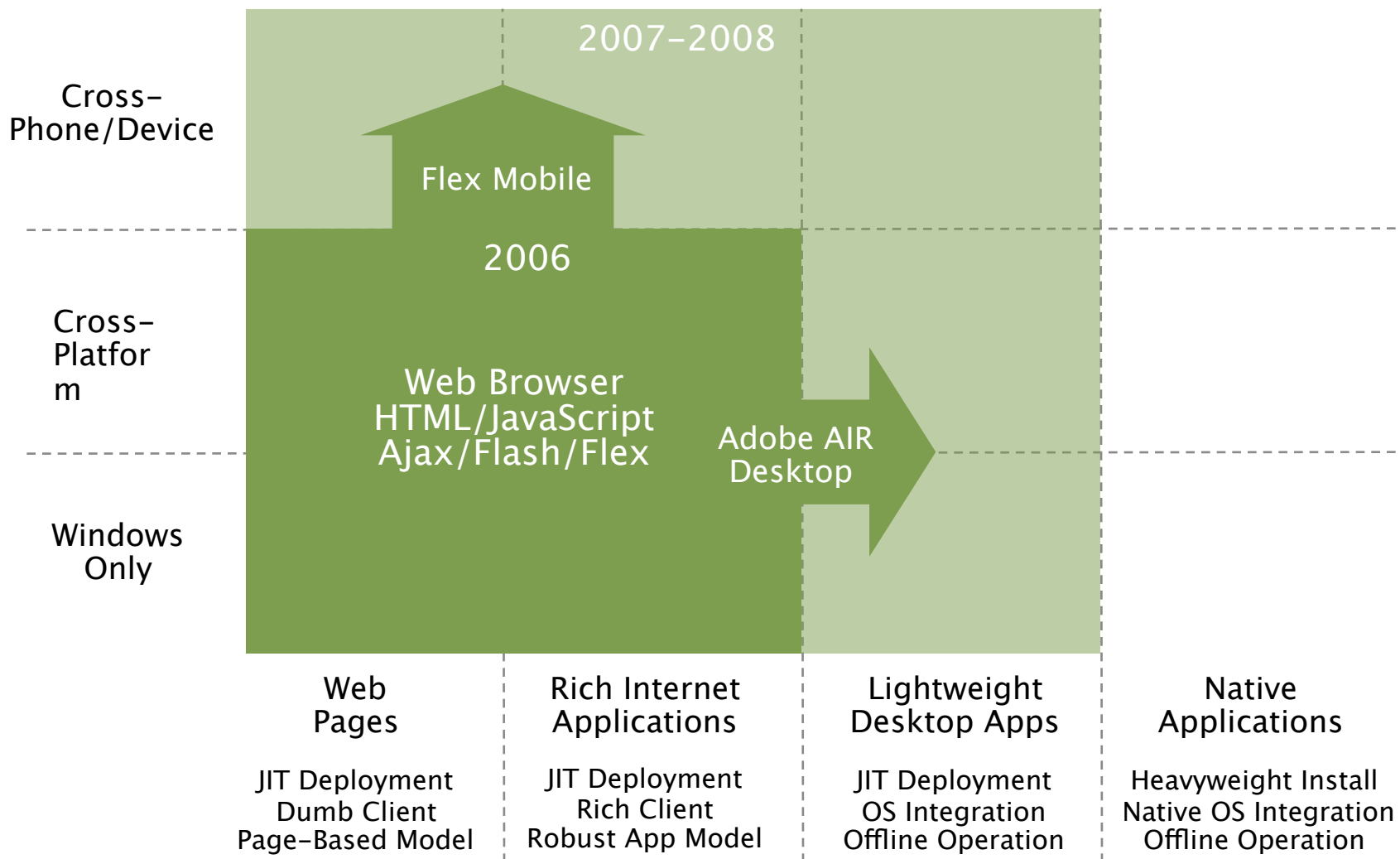
Rich Internet Applications



RIA Technology Trends



RIA Technology Trends



Although amazing things have been accomplished within the confines of Javascript, using technologies like Ajax, JSON, GWT etc., these are nonetheless confines. We bump up against their limits every day, and those limits are not going away.

I believe that to solve the user interface problem, we need the equivalent of a domain-specific language dedicated to the user experience.

For me, Flash-based technologies like Flex are the best solution to this problem.

- **Pentaho Dashboard**
 - Limited interactivity
 - Static Data Visualization
 - Limited Customizability

SOA + RIA = SOARIA (That's a fun word)

- Exposing the backend as services
 - SOAP
 - JSON
 - XML
 - Other
- RIAs interact with the backend solely via services
 - No view logic runs on the server in a true RIA
 - Services are usually stateless

RIA – Transforming the User Experience

- Better End–User experiences
- Better Business–User experiences
- Visualize and enter data in a new way
- Thick clients – Do more on the client
 - Paging
 - Sorting
 - Caching
 - Binary protocols

Building a RIA Dashboard on Pentaho

- Create a Sample Dataset
- Build a UI Prototype
- Build it fast and disconnected from the back-end
- Test it with users
- Iterate and refactor until the experience is amazing
- Connect it to the back-end

How Flex Works

Flex Builder IDE

Flex SDK

MXML

ActionScript

Flex Class Library

MXML and ActionScript

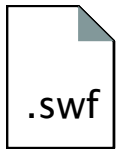
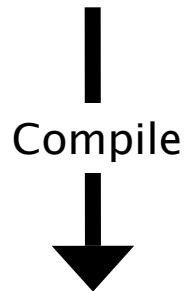
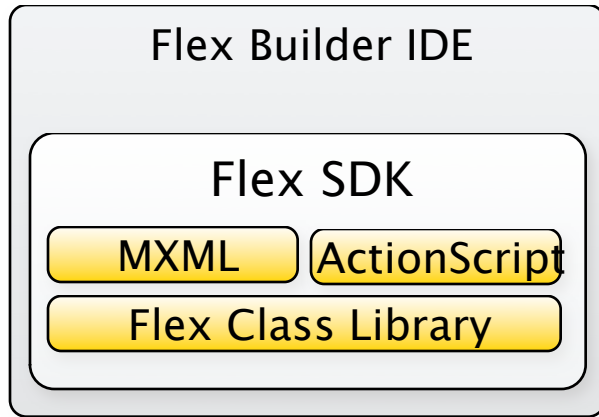
```
<?xml version="1.0" encoding="utf-8"?>
<mx:Application xmlns:mx="http://www.adobe.com/2006/mxml"
  xmlns="*" layout="absolute"
  creationComplete="initApp()" />

<mx:Script>
  private function initApp():void {
    hs.send();
  }
</mx:Script>

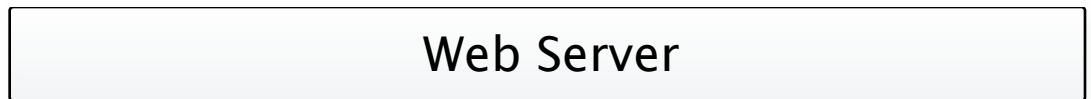
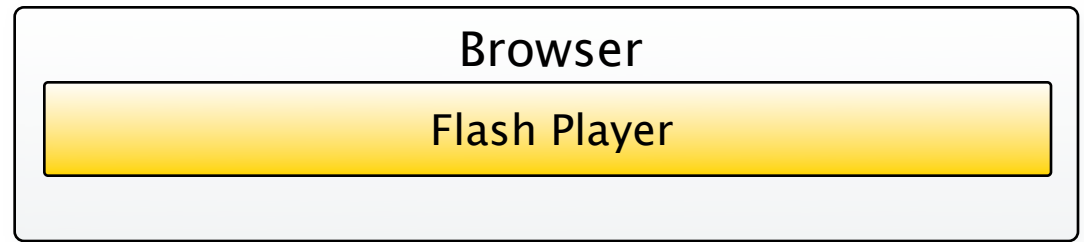
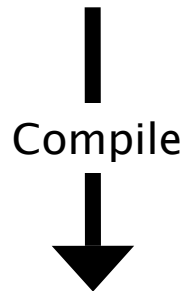
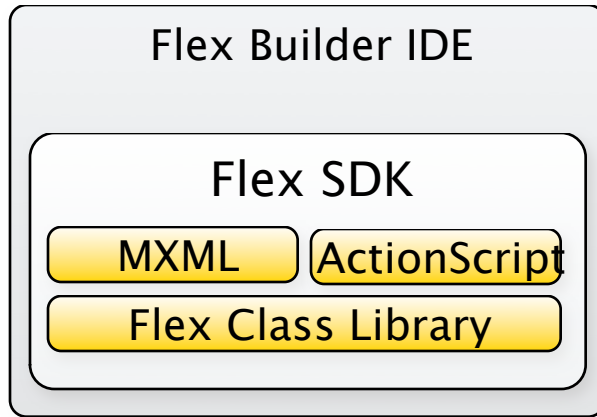
<mx:HTTPService id="hs" url="data/catalog.xml" />

<mx:Panel layout="vertical" top="10" left="10"
  right="10" bottom="10">
  <mx:TileList itemRenderer="Thumb" width="100%" height="100%"
    dataProvider="{hs.lastResult.catalog.product}" />
</mx:Panel>
</mx:Application>
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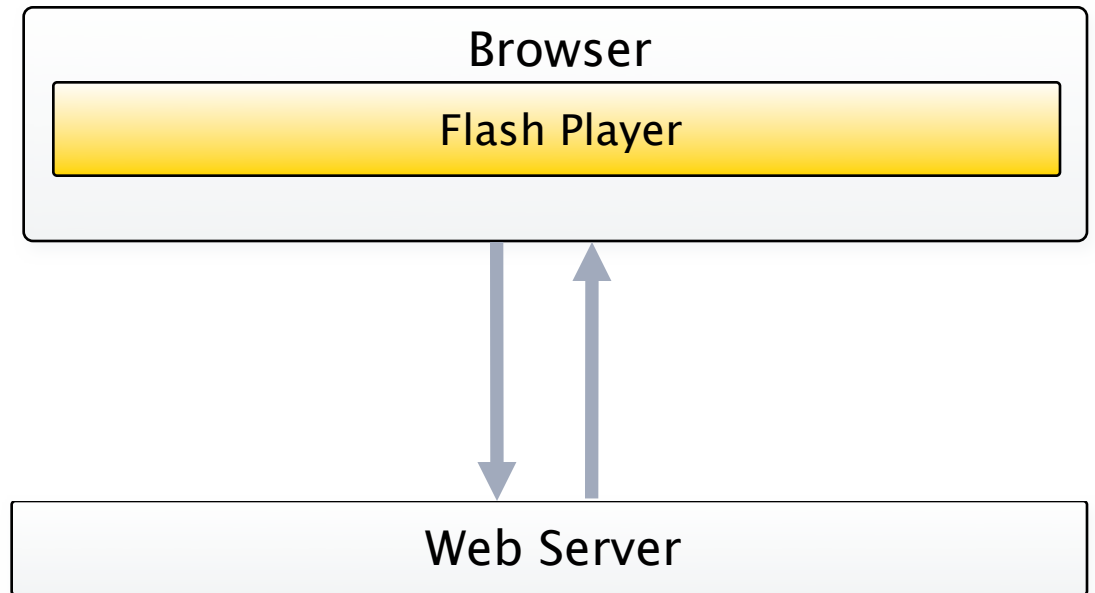
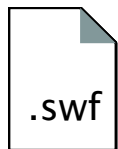
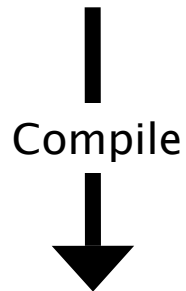
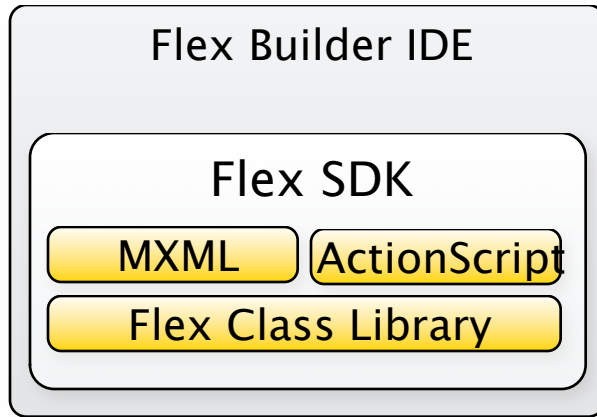
How Flex Works



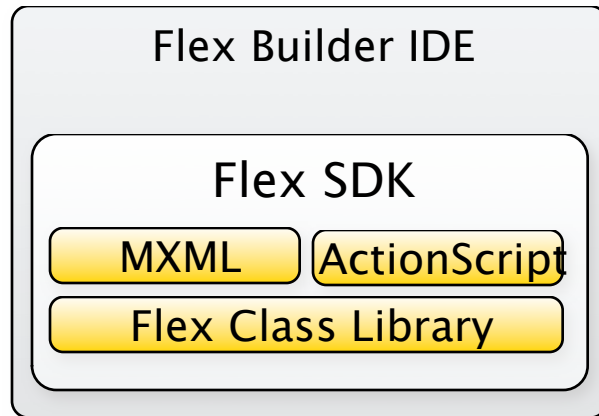
How Flex Works



How Flex Works



How Flex Works



↓
Compile

