flex, rails, RubyAMF

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flex

framework created by Adobe
that facilitates the creation of Flash applications
in a very similar paradigm to
traditional web-based applications
but provides a richer user experience

flex sdk

MXML

```
…
<mx:ViewStack id="appStack"
  width="400"
  height="450">
<view:UsernameView id="usernameView"
  userProvided="this.showChatView(event);" />
<view:ChatView id="chatView"
  user="{user}"
  showEffect="wipe" />
</mx:ViewStack>
…
```
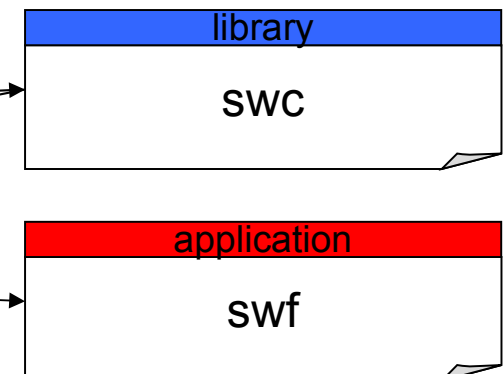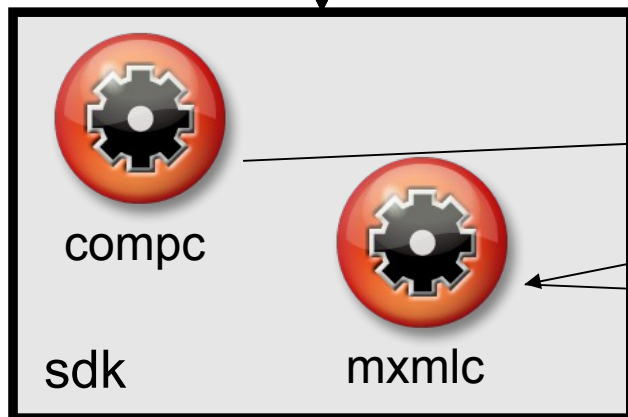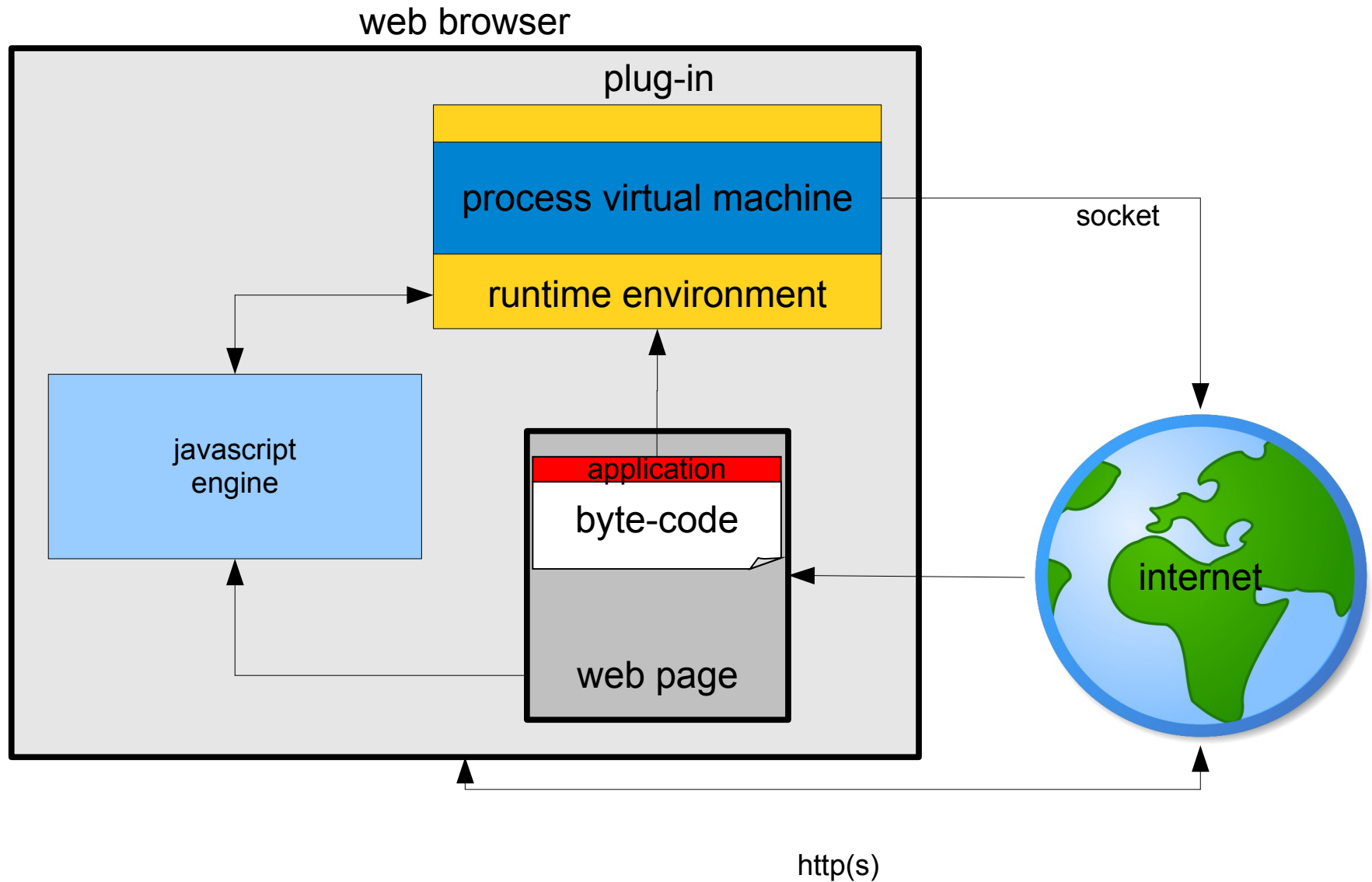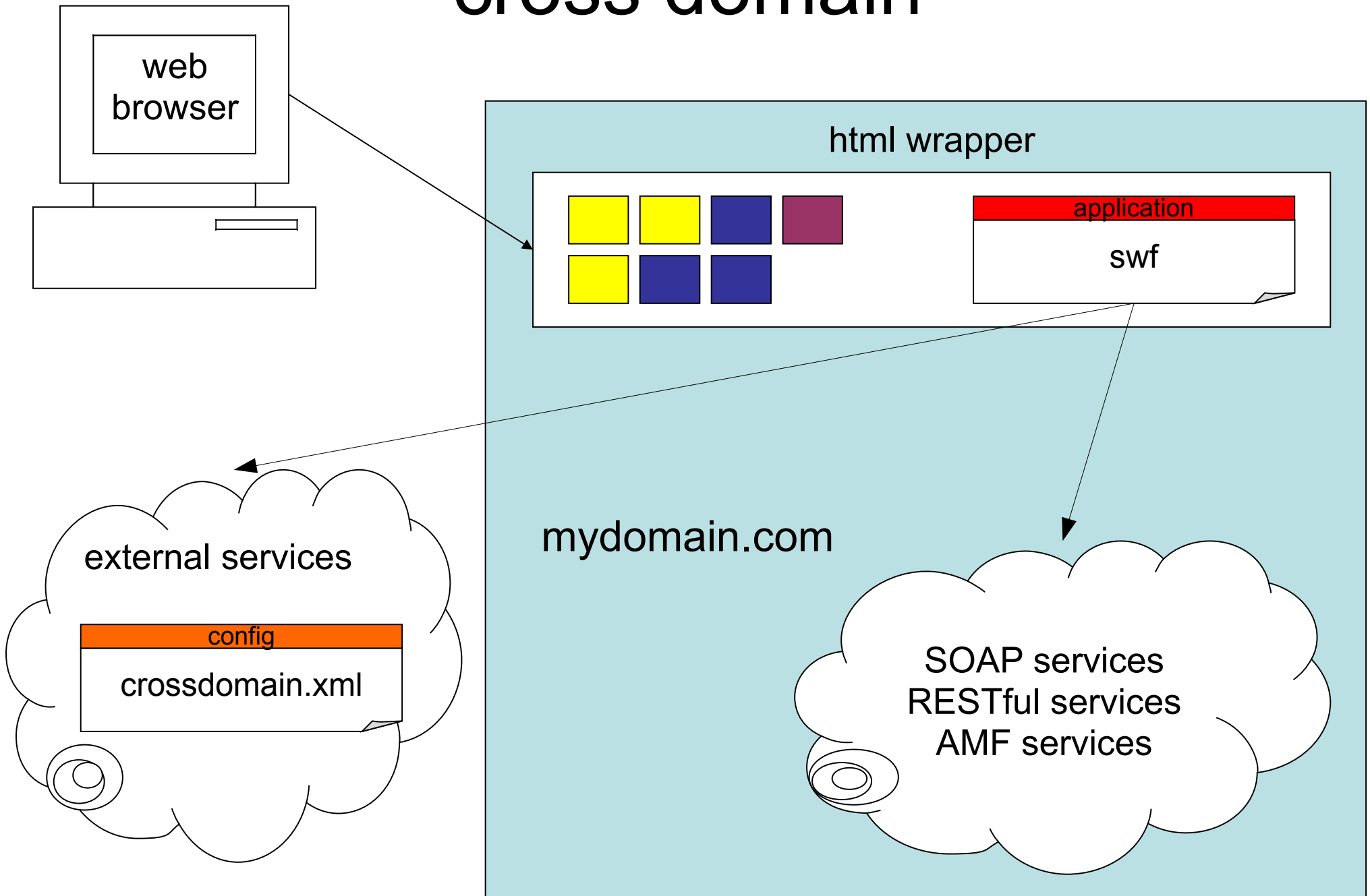
ActionScript

```
package us.adogo.april
{

  public class ChatMessage {
    public var sender : User;
    public var timestamp : Date;
    public var body : String;

    public function ChatMessage(){
      this.timestamp = new Date();
    }
  }
}
```

compc

mxmlc

sdk

library

swc

application

swf

flash player

web browser

plug-in

process virtual machine

socket

runtime environment

javascript
engine

application

byte-code

internet

web page

http(s)

cross domain

web browser

html wrapper

application

swf

mydomain.com

external services

config

crossdomain.xml

SOAP services
RESTful services
AMF services

action message format

message
• null/undefined   • XML • Boolean   • Date • Integer   • Array • Double   • Object • String   • ByteArray

• binary encoded ActionScript object graphs (version 3)

• used in rpc as well as messaging for pull and push services

• multitude of implementations over http(s) and rtmp
  • Java - BlazeDS / Lifecycle Data Services, WebOrb, Red5
  • .NET – FlourineFX, amf.net, WebOrb
  • PHP – AMFPHP, WebOrb
  • Ruby – RubyAMF, WebOrb

RubyAMF