

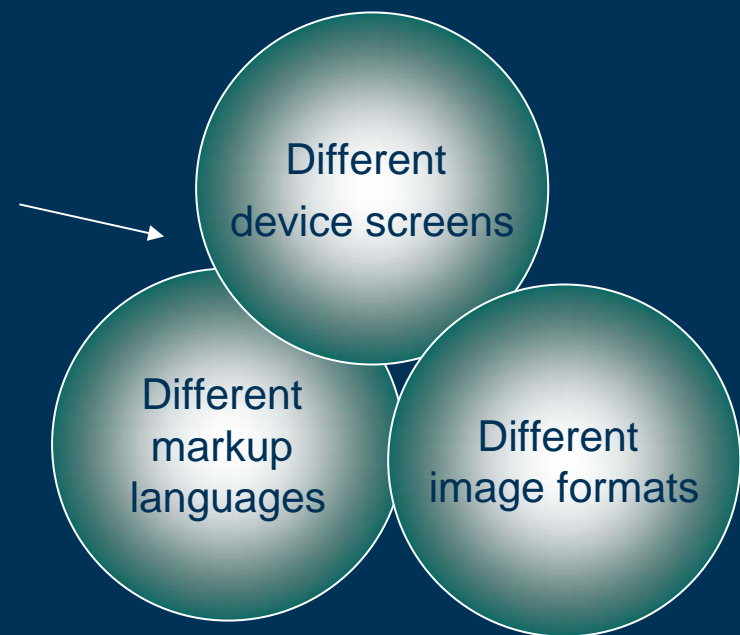
Mobile JSF Kit

JSF Extension for Mobile Browsing

Goal

- Rapid Application Development (RAD) for WAP

One page for all devices



What is JSF?

- JSF is a web technology with user interface (UI) components.
- JSF provides a basic UI component architecture.
- Java Server Faces (JSF) as a Java-based web application framework is part of the Java EE 5 specification.

Mobile JSF Kit

- Mobile JSF Kit is an extension kit based on the standard JSF framework.
- Mobile JSF Kit provides the *MobileFaces* library with source code free of charge.
- Mobile JSF Kit provides a detailed developer's guide and sample codes.
- Mobile JSF Kit provides additional solutions for mobile applications, such as Mobile AJAX and Mobile Security.

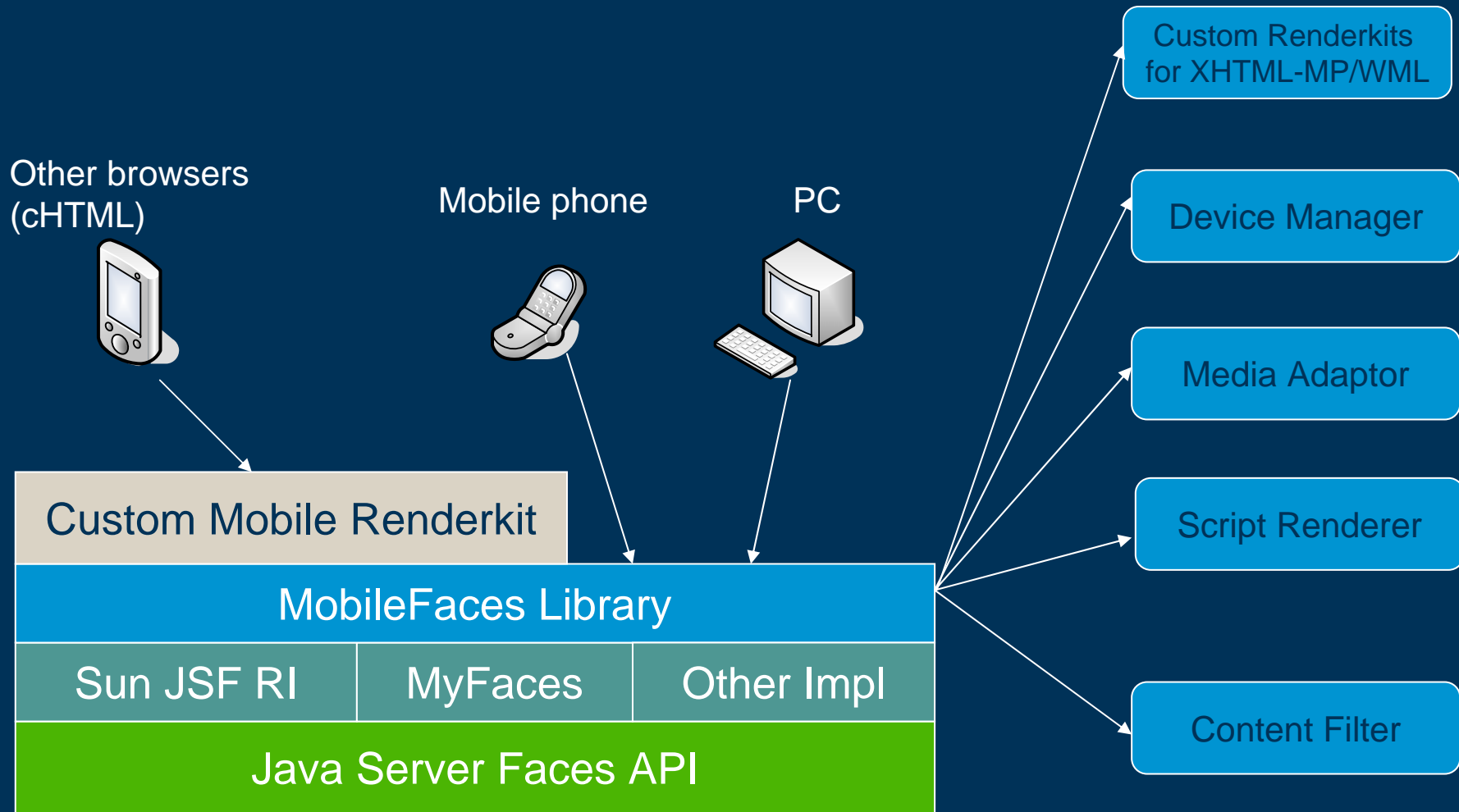
What is the MobileFaces library?

- MobileFaces is a core library for extending JSF web applications to mobile devices.
- Developers can use MobileFaces to automatically render a standard JSF page for different end devices.
- Developers can do further development based on MobileFaces to support more mobile features.

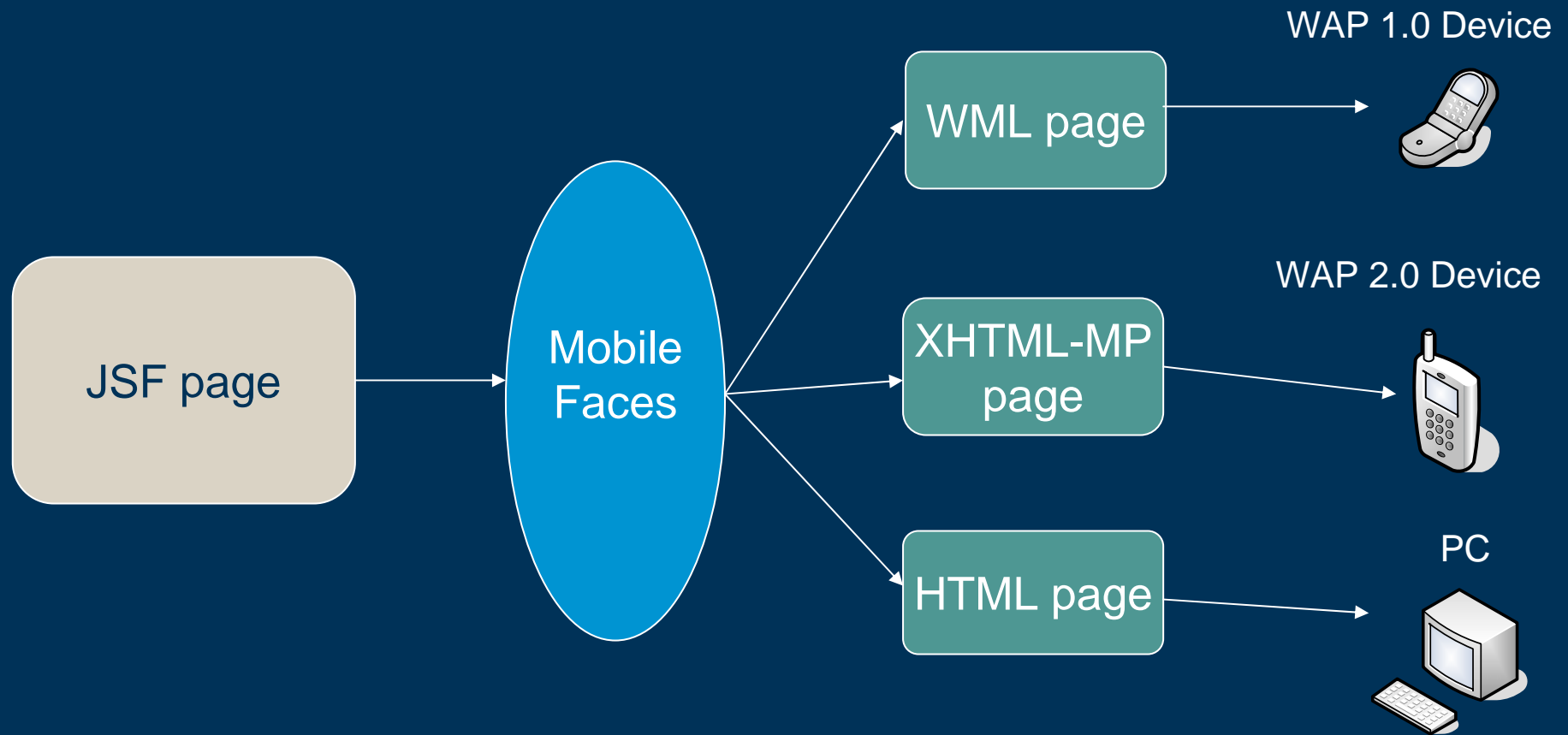
MobileFaces architecture

- MobileFaces is based on the JSF architecture and is compatible with any JSF implementation.
- MobileFaces consists of DeviceManager, Media Adaptor, Content Filter, Custom Renderkits for XHTML-MP & WML and Script Renderers to adapt web application for mobile.
- MobileFaces uses open structures, such as the standard JSF framework, for easy add-on extension.

MobileFaces Architecture



Uniform JSF page for rendering to different markup language



Uniform JSF page for rendering to different markup language

JSF Page

```
<m:dochead/>

<m:html>

  <m:head>
    <title>Hello JSF!</title>
  </m:head>

  <m:body>

    <h:form id="f">
      .....
```

```
<!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML 4.01 Transitional/EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
    <title>Hello JSF!</title>
  </head>
  <body>
    <form id="f" method="post" action="/HelloMobile/demo.jsf">
      .....
```

HTML

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//WAPFORUM/DTD XHTML Mobile 1.0/EN"
"http://www.openmobilealliance.org/tech/DTD/xhtml-mobile10.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Hello JSF!</title>
  </head>
  <body>
    <form id="f" method="post" action="/HelloMobile/demo.jsf">
      .....
```

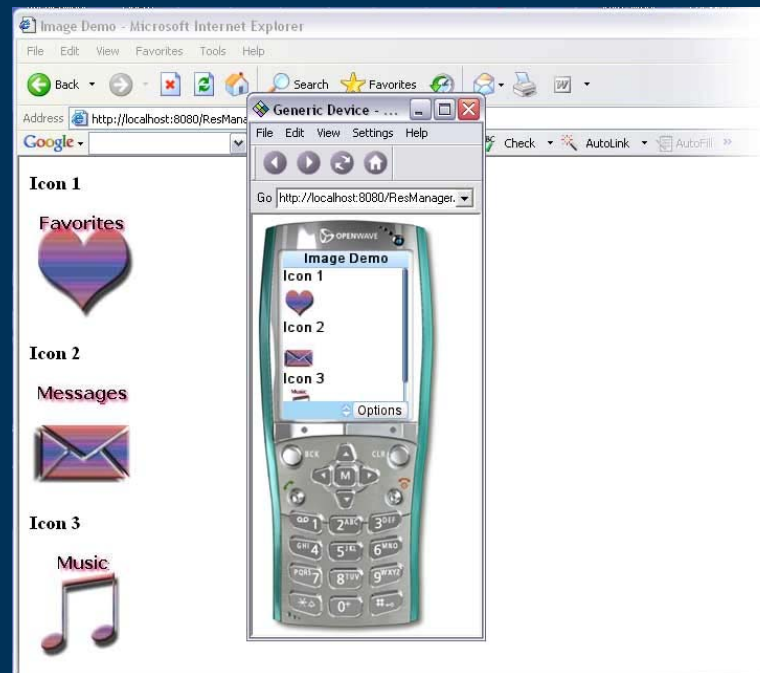
XHTML-MP

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM/DTD WML 1.3/EN"
"http://www.wapforum.org/DTD/wml13.dtd">
<wml>
  <card id="WMLCard" title="WML PAGE">
    .....
```

WML

Media Adaptor

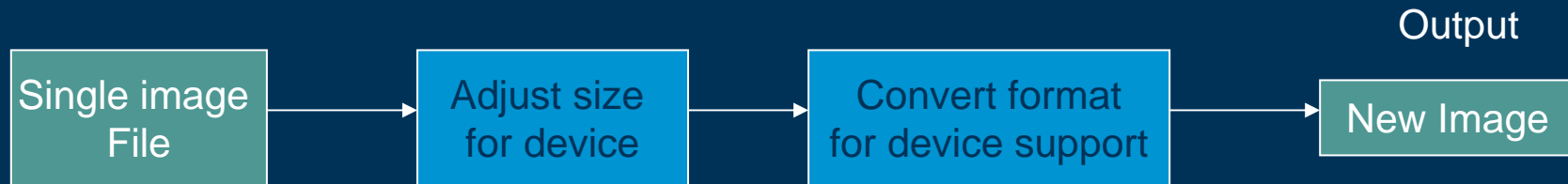
- Media Adaptor automatically adapts media files, such as image, sound and video, to different end devices.



Media Adaptor

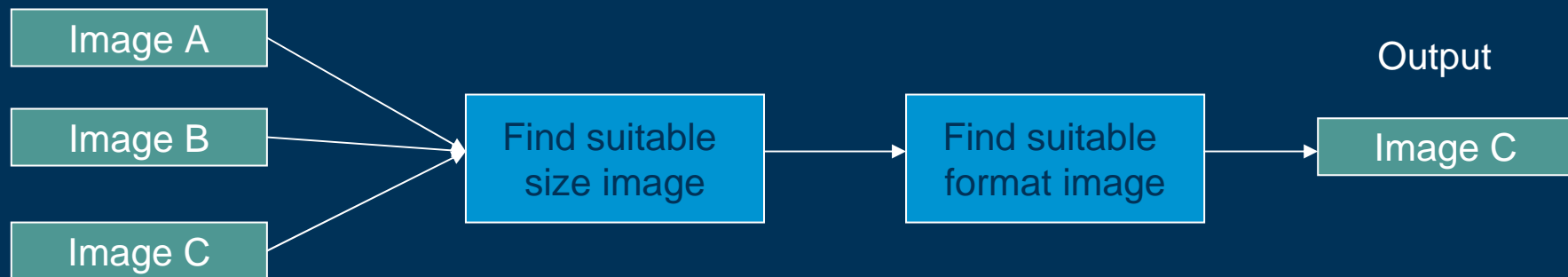
Solution 1:

Single media resource, adjusted and converted for multiple devices.



Solution 2:

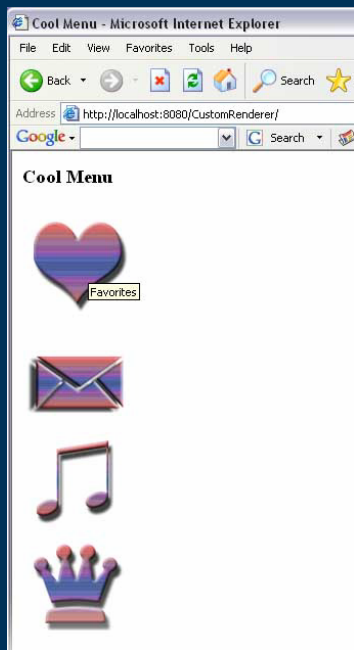
Multi media resource, smart finding suitable image for multiple devices.



Custom layout renderer

Single tag for different layout

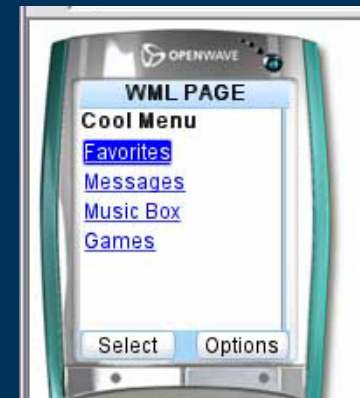
`<m:menu>.....</m:menu>`



Icon menu in HTML



Combine menu in XHTML-MP



Simple menu in WML

Content Filter in the page for special objects

```
<m:filter markup = "HTML_BASIC"  
screen = "9"  
device = "InternetExplorer" skip = "false">
```

Plug-in a Flash object!

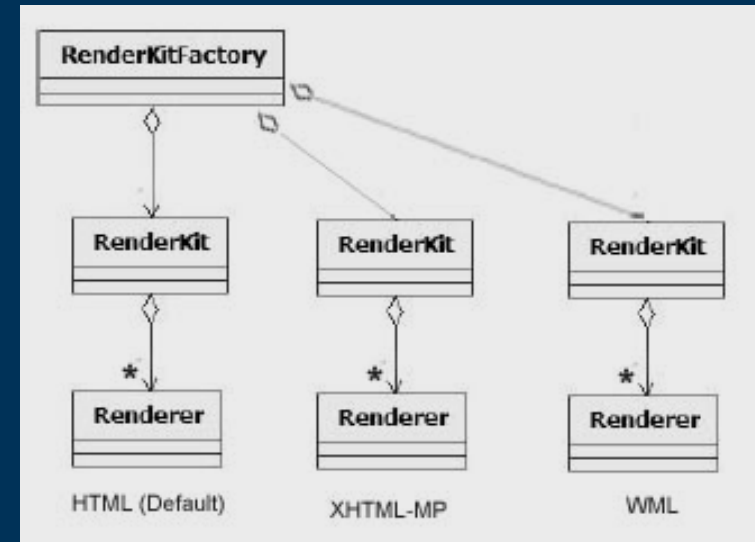
Display a flash object
Only in HTML page

```
</m:filter>
```

- Content Filter for different markup languages
- Content Filter for different screen sizes
- Content Filter for different devices

Open framework based on JSF standard

- Free use with source code, detailed documents and examples for further development
- JSF custom renderkits for XHTML-MP and WML
- Easy custom component extension based on MobileFaces



Compare with Microsoft .Net mobile control

	MobileFaces	Microsoft .Net mobile control
Open Source	Yes	No
Multiple Markup Language	WML/ XHTML-MP/ HTML 4	WML/ cHTML/ HTML 3.2
Image Control	Smart media adaptor	Manual implementation
Custom Layout support	Yes	Yes
Content Filter	Yes	Yes
IDE support	Based on JSF IDEs support	Integrated with Visual Studio .Net IDE

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