

Web and Grid Services

Maria, André, Guy, Matthew, Tamas and Wil

<http://www.ivoa.net/twiki/bin/view/IVOA/WebgridTutorial/>



Why ?

- **XML Web Services are now becoming standards**
 - **Web : distributing programming library modules as well as web pages**
- **Several participants to the IVOA are developing this kind of service**
- **It is now time to show how to consume these Web Services**



<http://www.ivoa.net/>

Web and Grid Services tutorial
12 October 2003

Goal

- **The main goal of this tutorial is to give answers to the following questions :**
 - How to consume a Web Service ?
 - How to build a Web Service?, how does it work on the server side ?
- **This tutorial is not a lecture about SOAP, WSDL, ... but we can start with a quick reminder**



<http://www.ivoa.net/>

Web and Grid Services tutorial
12 October 2003

Basics

- **SOAP, Simple Object Access Protocol**
 - XML based
 - The dialog format between a Client and a Web Service

- **WSDL, Web Service Description Language**
 - XML based
 - The recipe which contains information to implement a client (remember CORBA OMG-IDL)

- **Notice : SOAP and WSDL are manipulated with tools, it is not mandatory to learn this two formats...**



Program

- **How to Consume Web Services in C# and Java, Tamas and André**
- **How to Implement a Client Program in Java or Other Scripting Languages to Use the VO Statistics Web Service, Matthew**
- **How to Build a Java or C# Client for a Registry Web Service, Wil**
- **How to Build C# and Java Clients for the SDSS Image Cutout, Maria**
- **How to Build a Java Client for a Grid Service Using Globus Toolkit 3, Globus, Guy**
- **Inside the server, André**

