

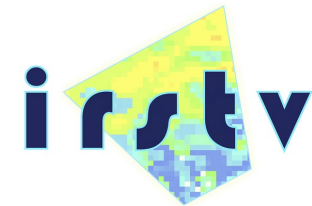
Web principles

OPEN SOURCE OPPORTUNITIES IN GIS

Summer School

28th June - 9th July, 2010. Girona

Partners Contribution



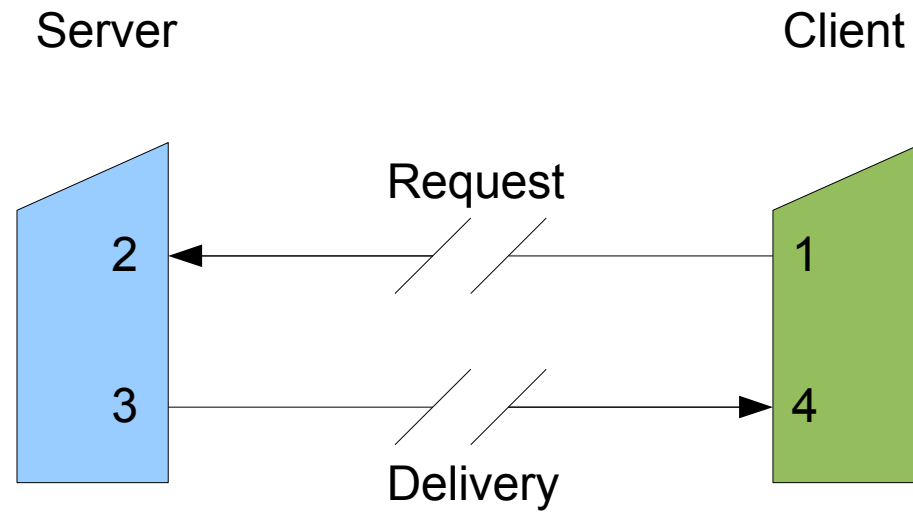
Partner Collaboration



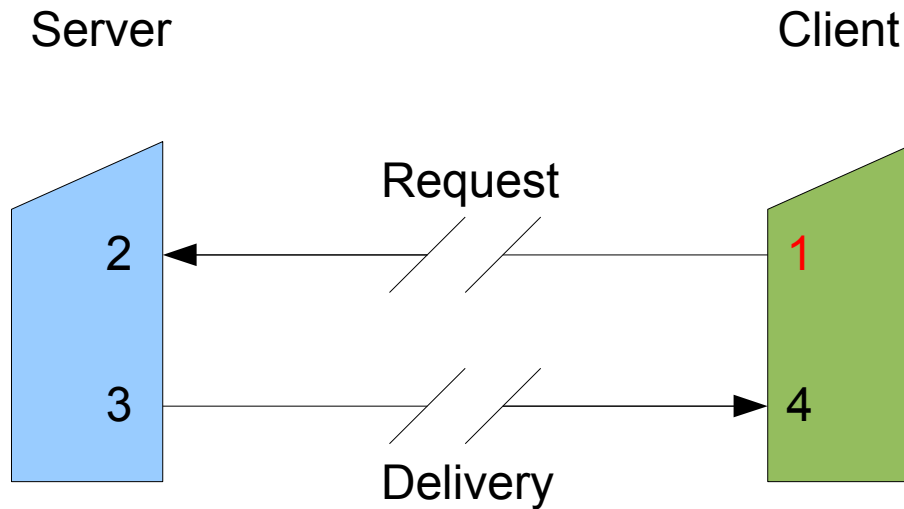
Erasmus IP

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Web principles: client-server model



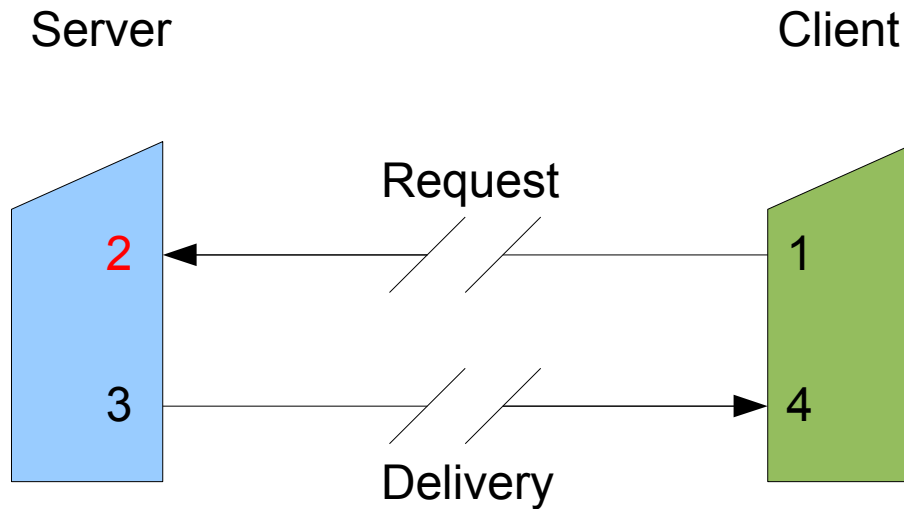
Web principles: client-server model



1. Issue a request

- address bar
- clic on link
- asynchronous requests (AJAX)
- media content (img, video, ...)
- client resources (styles, scripts, ...)

Web principles: client-server model



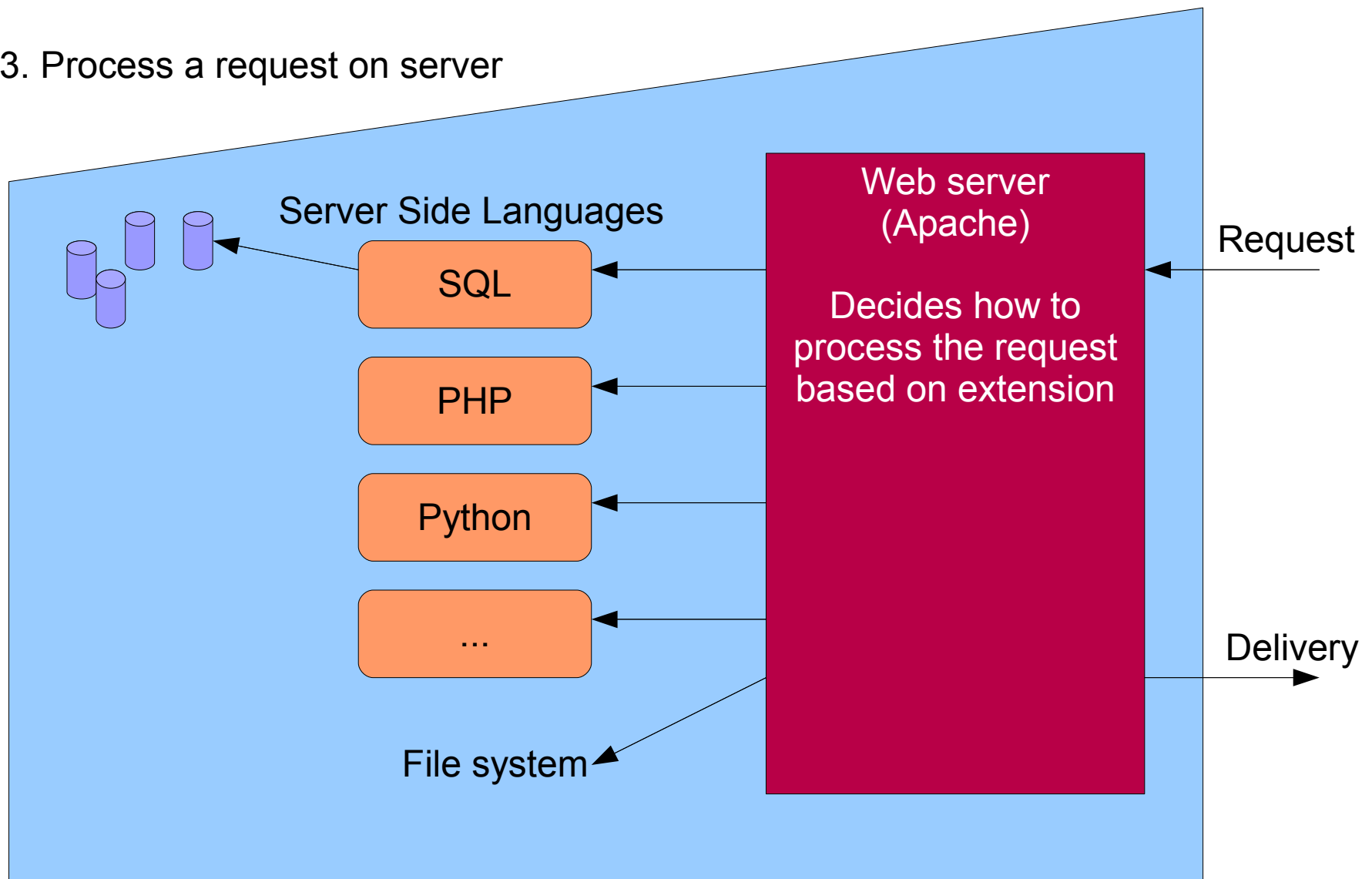
2. Process a request

protocol://my.domain.com/folder/doc

- protocol (http/https)
- domain
- path (folder/doc)
- extension (mime/type)

Web principles: client-server model

2 & 3. Process a request on server



Web principles: client-server model

3. What is being delivered

```
<html>
  <head>

    <script type="text/javascript" src="http://www.domain.org/script.js"></script>

    <script type="text/javascript">
      function init() {
        [does something]
      }
    </script>

  </head>

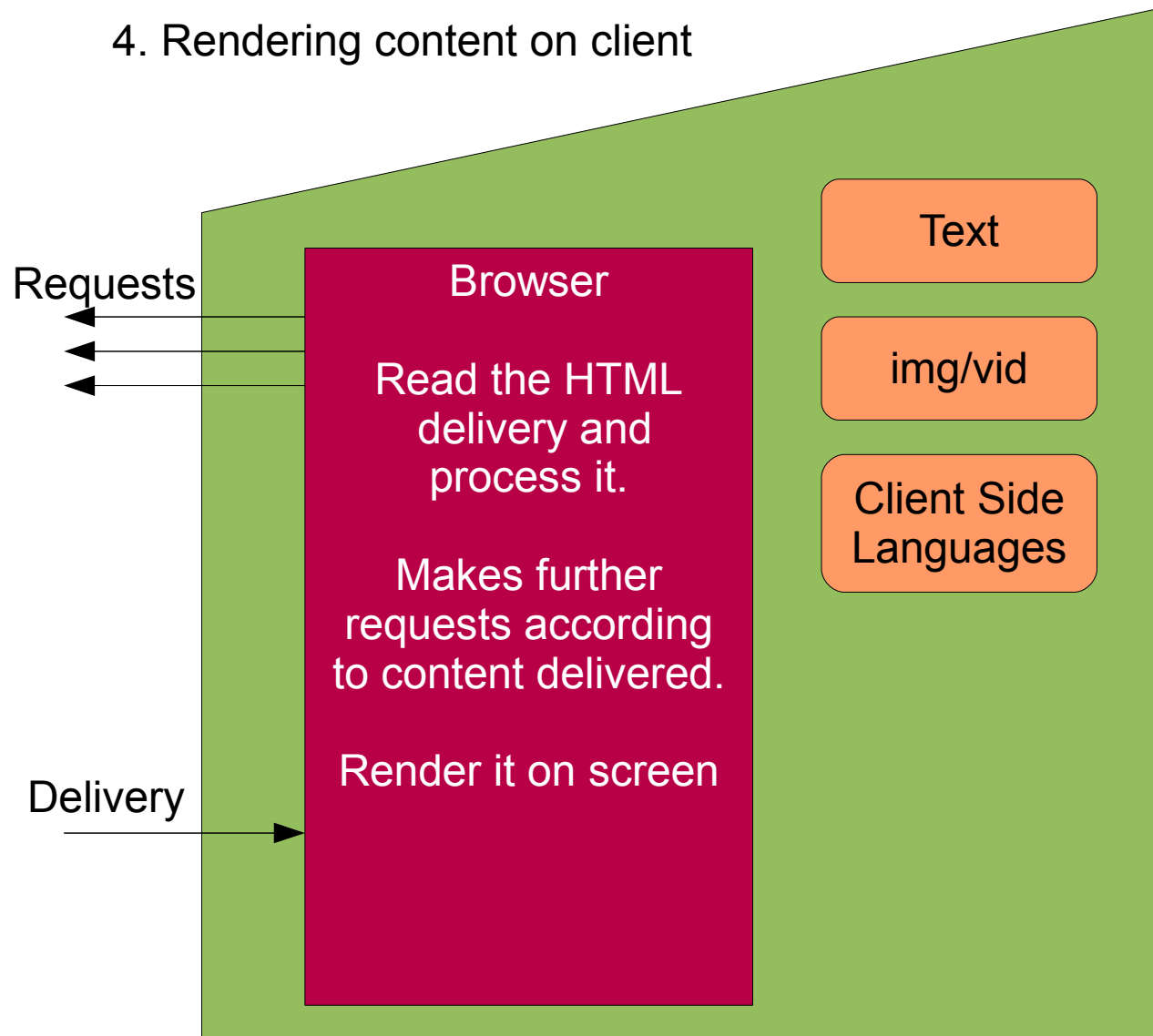
  <body onload="init()">

    <div id="mycontent"></div>

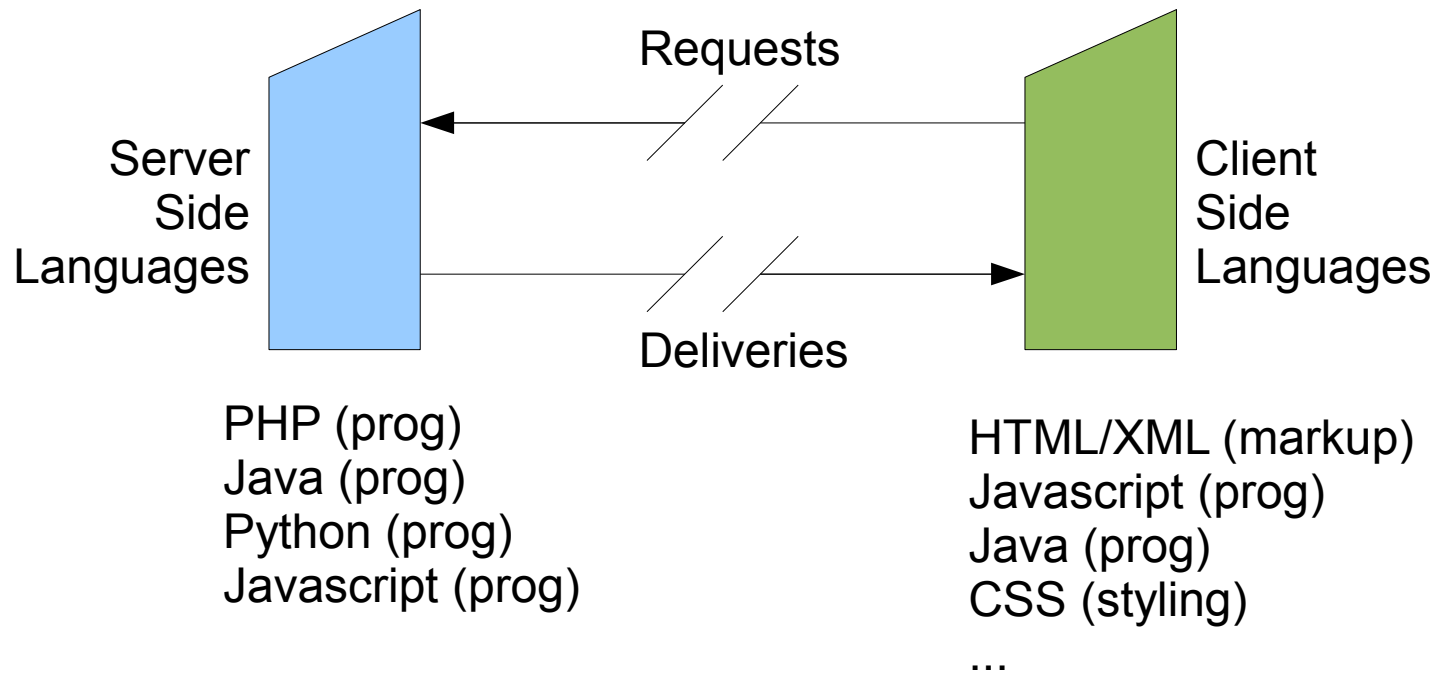
  </body>
</html>
```

Web principles: client-server model

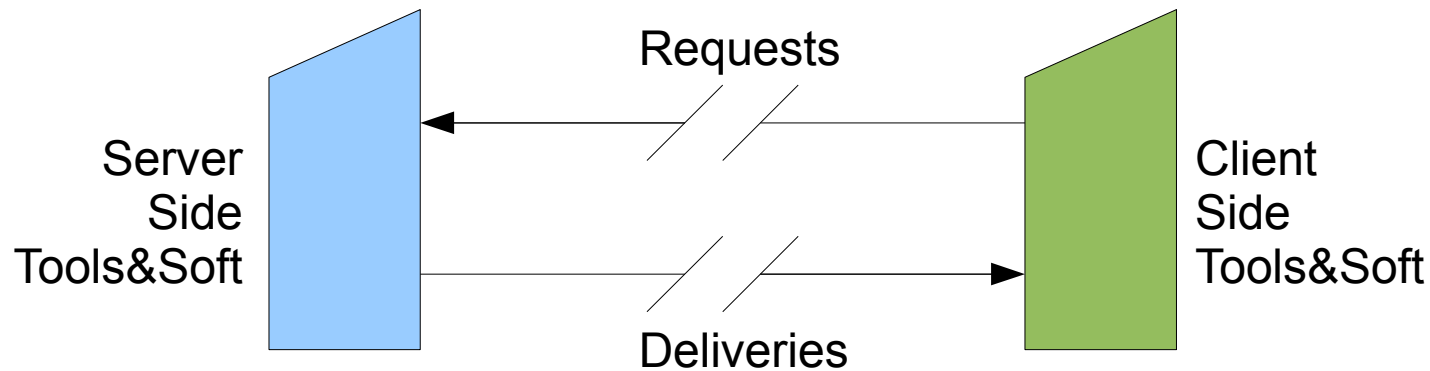
4. Rendering content on client



Web principles: languages



Web principles: tools



Apache (web server)

- + Scripting (PHP, Java, Python, ...)
- + Database (MySQL, PostgreSQL, ...)
- + Geo render (MapServer, GeoServer, ...)

Vi/Eclipse/Gedit (text editor)

Browser (run results)

Debug tools

... or why the heck isn't it working?

<http://www.openstreetmap.org/>

Web mapping tools

Map servers

UMN MapServer - <http://mapserver.org/>

GeoServer - <http://geoserver.org/>

deegree - <http://www.deegree.org/>

MapGuide Open Source - <http://mapguide.osgeo.org/>

Geomajas - <http://geomajas.org/>

...

