Other Data sources

Nov 20, 2009

php.net
Get Ready

- All of today's samples are at:
  
  - https://64.59.233.234/exampleFiles/WebData.html

  Open that URL in a web browser now

  Open an ssh connection to the database machine and start Geany

- From the terminal on the local machine:
  
  chadd@barney:~> /updates/xml_editor/xxe-perso-4_5_0/bin/xxe &
Lot's of data out there...

• Google
  – Maps
  – Search
  – YouTube
• Wunderground.org
  – Local weather stations
• NOAA.gov
  – National Oceanic and Atmospheric Administration
Handling Data

- **XML**
  - http://www.w3schools.com/xml/default.asp
  - "XML stands for eXtensible Markup Language. XML is designed to transport and store data."

- **SOAP**
  - Simple Object Access Protocol
  - http://www.w3schools.com/SOAP/soap_intro.asp
  - "SOAP is a simple XML-based protocol to let applications exchange information over HTTP."

- **PHP**

- **JavaScript**
XML

Visit that URL, get XML!

```xml
<?xml version="1.0" encoding="UTF-8"?>
<location type="CITY">
  <country>US</country>
  <state>OR</state>
  <city>Forest Grove</city>
  <tz_short>PST</tz_short>
  <tz_unix>America/Los_Angeles</tz_unix>
  <lat>45.58283997</lat>
  <lon>-123.21089935</lon>
  <zip>97116</zip>
  <radar>
    <url>http://www.wunderground.com/radar/radblast.asp?
      ID=RTX&region=a1&lat=45.58283997&lon=-123.21089935>
    </url>
  </radar>
```

...
<?php

$weather = simplexml_load_file('URL');

print $weather->country. "<br>";
print $weather->lat . " " .
    $weather->lon . "<br>";
print "<a href=". $weather->radar->url . ""> Weather </a> <p>";

foreach ($weather->webcams->cam as $cam)
{
    print "Cam name: " . $cam->handle.
        "<br>";
    print "<img src=" .
        $cam->CURRENTIMAGEURL . " > <br>";
}
?>
<?php

require_once 'Zend/Loader.php';
Zend_Loader::loadClass('Zend_Gdata_YouTube');

$yt = new Zend_Gdata_YouTube();
$yt->setMajorProtocolVersion(2);

$feed = $yt->getUserUploads('pacuniv');

foreach ($feed as $entry) {
    print "Video: " . $entry->getVideoTitle() . "\n";
    print "Description: " . $entry->getVideoDescription();
    print "\n";
    print $entry->getFlashPlayerUrl();
    print "\n";
}

?>

http://code.google.com/apis/youtube/2.0/developers_guide_php.html
Get an XML feed

- Does your favorite website have an XML feed?

- Can you parse it?