

# Other Data sources

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php.net

# Get Ready

- All of today's samples are at:
- <https://gray/example/WebData/WebData.html>

Open that URL in a web browser now

Open an ssh connection to gray and start Geany

- From the terminal on gray :  
`[chadd@gray ~]$ /usr/local/share/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](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

<http://api.wunderground.com/auto/wui/geo/GeoLookupXML/index.xml?query=97116>

Visit that URL, get 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>
```

....

# XML

```
[chadd@gray ~]$ wget url -O weather.xml
```

```
[chadd@gray ~]$ /usr/lo cal/share/xxe &
```

Open weather.xml

```
<?php
```

```
xmlParser.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 " <br>";
}
?>
```

```
<?php
```

# advXMLParser.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() . "<br>";
    print "Description: " . $entry->getVideoDescription();
    print "<br>";
    print "<a href=$entry->getFlashPlayerUrl()>link</a>";
    print "<P>";
}
echo "Thumbnails:\n";
$videoThumbnails = $entry->getVideoThumbnails();

foreach($videoThumbnails as $videoThumbnail) {
    echo " <br/>";
}
?>
```



# Resources

`http://code.google.com/apis/youtube/2.0/developers\_guide\_php.html`

`http://framework.zend.com/download/gdata`

`http://code.google.com/apis/youtube/code.html#PHP`

# Get an XML feed

- Does your favorite website have an XML feed?
- RSS? Atom?
- Can you parse it?

# Google Maps

- <http://maps.google.com/help/maps/getmaps/advanced.html>  
<http://code.google.com/apis/maps/>  
<http://code.google.com/apis/maps/documentation/staticmaps>

```

```

<http://itouchmap.com/latlong.html>

```

```

# Put it together

- Take the WUnderground XML feed
- Display a cam image and a Google Map of each location
- [www.data.gov](http://www.data.gov)  
<http://earthquake.usgs.gov/earthquakes/catalogs/>  
Atom or RSS 2.0 is provided in XML
- <http://www.washingtonpost.com/wp-srv/metro/data/datapost.html>
- <http://feeds.arstechnica.com/arstechnica/science?format=xml>
- <http://blog.oregonlive.com/my-forest-grove/atom.xml>
- <http://www.jpl.nasa.gov/multimedia/rss/news.xml>