Personal Wiki: RSS Enclosures

Drupal news **Aggregator** module reads RSS news feeds and stores the items in the database. News items are then displayed as content on the Drupal site.

The news feeds that I use for Real Food Shop contain links to recipes and also links to small pictures called *enclosures* in RSS terminology.

Normally when processing the xml tags in a RSS file the content appears between an opening and a closing tag. An example of this is: `<title>Good Things Take Time</title>`

RSS enclosure tags are done differently, why I do not know. All the information about the enclosure item is contained as attributes within the tag itself. An example of this is: `<enclosure url="http://media.apn.co.nz/webcontent/image/jpg/beef-701.jpg" length="2000" type="image/jpeg" />`

To extract the image url from within the enclosure tag the xml parser must go inside the tag and pull out the value of the 'url' attribute.

Modifications I made to the Aggregator module to allow processing of enclosure image urls.

1. Open the database and add a new field to **aggregator_item table** (same as the guid field)
   field [imageurl varchar(255) utf8_general_ci Null:Yes Default:NULL]

2. Open aggregator.module and add support for enclosure URL attribute to **aggregator_element_start()**
   add a new case between case LINK and case ITEM:
```
case 'ENCLOSURE':
  if ($element == 'ITEM') $items[$item]['ENCLOSURE'] =
$attributes['URL'];
break;
```

3. Open aggregator.module and add support for imageurl to **aggregator_parse_feed()**
```
// Initialize variables.
$title = $link = $author = $description = $guid = $imageurl = NULL;
    foreach ($items as $item) {
    unset($title, $link, $author, $description, $guid, $imageurl);
```

   under the line `$guid = isset($item['GUID']) ? $item['GUID'] : '';`
```
 $imageurl = isset($item['ENCLOSURE']) ? $item['ENCLOSURE'] : '';

aggregator_save_item(array('iid' => (isset($entry->iid) ?
$entry->iid:  ''), 'fid' => $feed['fid'], 'timestamp' =>
$timestamp, 'title' => $title, 'link' => $link, 'author' =>
$item['AUTHOR'], 'description' => $item['DESCRIPTION'], 'guid' =>
$guid, 'imageurl' => $imageurl));
```

4. Open aggregator.module and add support for imageurl to **aggregator_save_item()**
```
db_query("UPDATE {aggregator_item} SET title = '%s', link = '%s',
author = '%s', description = '%s', guid = '%s', imageurl = '%s',
timestamp = %d WHERE iid = %d", $edit['title'], $edit['link'],
$edit['author'], $edit['description'], $edit['guid'],
$edit['imageurl'], $edit['timestamp'], $edit['iid']);
```

```
db_query("INSERT INTO {aggregator_item} (fid, title, link, author,
description, timestamp, guid, imageurl) VALUES (%d, '%s', '%s',
'%s', '%s', %d, '%s', '%s')", $edit['fid'], $edit['title'],
$edit['link'], $edit['author'], $edit['description'],
$edit['timestamp'], $edit['guid'], $edit['imageurl']);
```

5. Open aggregator.pages.inc and add support for feed_imageurl to
template_preprocess_aggregator_item()

```
$variables['feed_imageurl'] = check_url($item->imageurl);
```

6. Open aggregator-item.tpl.php and add support for feed_imageurl (style class="feed-imageurl")

```
<?php if ($feed_imageurl) : ?><img class="feed-imageurl" src="<?php
print $feed_imageurl; ?>" /><?php endif; ?>
```

7. Open aggregator.css and add support for the class="feed-imageurl"

```
#aggregator .feed-imageurl {
  margin-right: 0.75em;
  float:left;
  max-height:130px;
}
```

References:

See one of my recipes input XML feeds here

http://rss.nzherald.co.nz/rss/xml/nzhrsscid_000000300.xml

See my site with styled recipes from the feed here

http://realfoodshop.com/recipes