

# RSS Feed Tutorial

## January 2011

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The following tutorial explores data retrieval strategies over the internet using the iOS SDK.

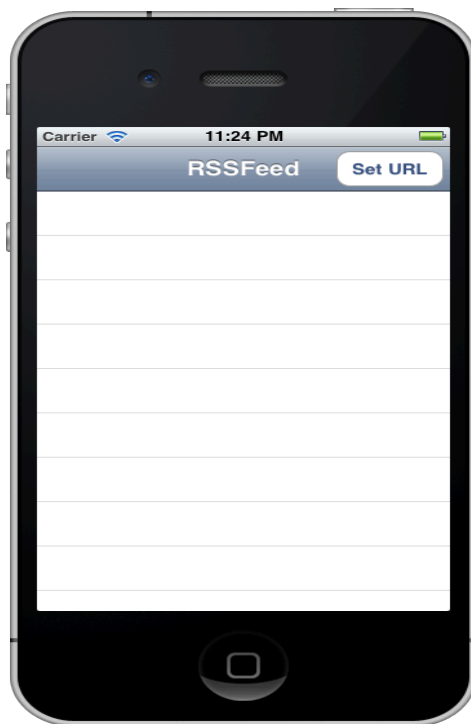
### Contents:

- XML Parsing
- View Controllers

### Preliminaries

Open the **RSSFeed** Project from the file system.

Build and Run the application:-



Start by entering the following URL in the Set Url view:-

[http://rss.cnn.com/rss/cnn\\_topstories.rss](http://rss.cnn.com/rss/cnn_topstories.rss)

When you use the **“back”** button (e.g., “RSSReader”), the table in the application should fill with the Headlines from today’s news.

Click on a News item row to launch a browser window for the underlying story.

The schema for RSS feeds can be found at the following url:

[http://www.thearchitect.co.uk/schemas/rss-2\\_0.xsd](http://www.thearchitect.co.uk/schemas/rss-2_0.xsd)

Note that an **item**/RSSItem tag is made up of several sub tags including:

- title
- link
- description
- language
- copyright
- managingEditor
- webmaster
- pubDate
- lastBuildDate
  
- category
- generator
- docs
- cloud
- ttl
- image
- textInput
- skipHours
- skipDays

When the application executes, the parser is invoked and reads the XML data from the given RSS link.

(If you received an “Error loading content” message then you typed in the URL incorrectly.)

Methods **didStartElement** and **didEndElement** are responsible for parsing start and end positions in Xml tags.

The sub tags title, link, summary and date are contained within the **item** tag.

Method **foundCharacters** retrieves Element values from start of the tag till the particular Element tag is closed.

## Modifying RSSFeed to become Yahoo Reader

We would be accessing a Yahoo REST-based Web Service for this application. The prerequisite for this capability is to obtain an **Application ID** from the <https://developer.apps.yahoo.com/wsregapp/>

For this exercise use the Application ID obtained in advance i.e. "YahooDemo" string.

The Yahoo Local Search Web Service is described at <http://developer.yahoo.com/search/local/V3/localSearch.html>

Try the Sample service request URL on this page, experiment with zip code values familiar to you. The Xml returned by the Web Service call can be explored by viewing the Source content of the web page.

Explore the Xml Schema at <http://local.yahooapis.com/LocalSearchService/V3/LocalSearchResponse.xsd>

**Result** is now the Aggregate tag we are interested in place of **item**.

**Title, URL, Address** and **Phone** sub tags need to be parsed and displayed.

- Modify the parseXml methods to handle the above tags from the Yahoo Web Service.
- You might want to edit RootViewController.h and rename appropriate String variables.
- Instead of the RSS Url, enter the following in Set URL Text box:-

<http://local.yahooapis.com/LocalSearchService/V3/localSearch?appid=YahooDemo&query=pizza&zip=>

- Provide a Valid Zip Code Value after the zip parameter
- To avoid entering this string on each run, Set the textField text property to the above URL when SetViewController is accessed.
  - *Hint viewDidLoad would be a good place to do this.*
- Modify the Title of the Main view to "Yahoo Local"
  - Note the Back Button is appropriately renamed
- Edit **cellForRowIndexPath** method
  - Create Cell with ability to display Sub Title
    - `cell = [[UITableViewCell alloc] initWithStyle:UITableViewCellStyleSubtitle`
    - Display Pizza store Address and Phone on Sub Title
      - Hint:
        - `cell.detailTextLabel.text = addressPh;`
        - Retrieve Address and Phone Values

- See [cell setText:... for example
- Concatenate Address and Phone – use `stringByAppendingString`

### Expected Outcome



