Weather RSS program

Main features:

* Parse from RSS feed at particular weather website
* Display to user the settings
* Depending on forecast, put up a different image
* User save-able settings (url to xml file, ability to pick from a list of saved urls, with nicknames for each url)
* Config file for easy installation etc.
* Load, Save URL’s

Files intended:

* Class file to hold GUI programming features
* File to parse RSS feed (mostly completed? Look for better implementations)
* Config file (?)
* Assets folder
* Save/Load

Still to work on (in order of priority):

* Complete overhaul of weather\_rss parser functions (make it more flexible for all kinds of different xml formats), and make it object oriented *(tentatively completed)*
* In parser, parse more fields (raw xml as an attribute in the weatherData object, as well as LastUpdated and Location) *(tentatively completed)*
* Implement check for if input string is a valid weather XML file *(tentatively completed)*
* Make GUI look nicer (including adding assets for different weather conditions)

Later…

* Save/load urls feature
* Menu
* Periodically refreshing data from xml
* Config

Menu options

* File menu:
  + Load – load a url from a list of saved urls
  + Save – save an url (current url is automatically entered)
  + Quit – exits program
* Help menu:
  + Help – instructions on how to run program
  + About – (maybe), describes project and website that it pulls rss from

LOAD:

File format: Dictionary of stored values, e.g.: {“currenturl” : None, “savedlist” : None, “savedurl” : None}

Makes it easy to tell when each field is missing, no need to search for missing fields. When saving, pack the values into the dict and pickle.dump. Only need to check for existence of file. When loading, load the dict and unpack the values. Need to check for byte correctness (if not, clear data and issue error message) and if there is a dict (if file is empty, initialize empty lists, no url)