

Let's revise the workflow for the keyword-specific functionality, where some part of the speech is a keyword and the other part is information that needs to be used by the logic engine. The illustration in Figure 4-3 summarizes what you just learned in the form of a flowchart.

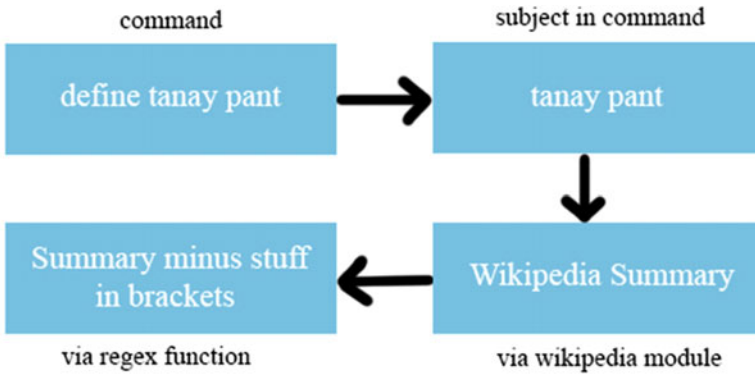


Figure 4-3. *Wikipedia information-retrieval workflow*

Melissa now has a functional definition system that lets you ask about a wide variety of subjects. This particular module has helped you to boost the functionality of your beloved virtual assistant.

Read Me Some Business News!

Let's develop a business news reader for Melissa. As discussed earlier, instead of using a ready-made module to obtain the news via an API, you can scrape the data from a business news web site, parsing meaningful information from the page and then passing it to the `tts()` function so Melissa can read it to the user. This will enable you to build your own module for any future functionality you may want to build in Melissa.

For the purpose of accessing web sites and parsing data from HTML, you need `requests` and `BeautifulSoup`. You can install these modules using `pip` by entering the following commands on your terminal:

```
$ pip install requests
$ pip install beautifulsoup4
```

I selected the NDTV web site for scraping business news. The business news section is located at <http://profit.ndtv.com/news/latest/>. If you want to navigate to the next page, `/page-2` is appended to the basic URL for the business-related news.