



Figure 3-2. Keyword-detection scheme

Now you have to learn how to use this function to improve your recognition rates. Let's consider the example of the question "Who are you?" Here are some possible variations of the question:

- "Hey, who are you?"
- "Can you tell me who are you?"
- "I wish to know who you are!"
- "For Christ's sake tell me who the hell you are!"

This list is by no means comprehensive, but it is representative of the various ways a user can ask Melissa the question. Notice that three words are present in all the statements: *who*, *are*, and *you*. Hence, it can be considered a safe bet to make an array of these three keywords and consider it an identifier for the base question, "Who are you?"

The construction for checking the speech for this base question is as follows:

```
check_message(['who', 'are', 'you']):
```

Similarly, you can extend Melissa's answering capability by adding a function to `general_conversations.py` and including the corresponding check in `brain.py`.

Congratulations—you have successfully built your talking virtual assistant!