Simple Text-to-Speech Program

Vision of the Program: It is the Text-to-Speech program that you can create your own voicebank for it.

For the program, you can select voicebanks, adjust speaking speed and make it speak in 5 different modes that's configured in the voicebank. The language and the words are depend on sound files in the voicebank.

For the voicebanks, you can configure the name of the voicebank, texts to show in the UI and speaking modes in the configuration-text files.

Value Proposition: This program can be useful for some other programs that need the speaking voice but the sentence is not always the same.

In this program I'll learn how to work with the sound files in Java.

Features:

- Speaking Japanese sentences. Support both Hiragana and Romaji

- For romaji sentences, separate the words with 1 space.

- Each speaking buttons speaks in different styles, up to voicebank's configuration.

- Speaking duration is for adjusting speaking speed.

  Voicebank:

- Files' names will be the word for the Text-to-Speech

- char.txt contains voicebank's information:

    - name (Name of the voicebank.)

    - greeting (Greeting sentence when load the voicebank)

    - picture (Avatar of the voicebank)

    - spoken (String format for spoken sentence)

- config.txt contains speaking modes. Support up to five modes; button1, button2, button3, button4 and button5

  The mode can set which folder to load the voice from at the start, middle and at the end.

  Buttons can be set up like this:
  button1 = (button name),(starting),(middle),(ending)