Text-speak Converter — Notes for Club Leaders

Python   PDF

Introduction:

This project teaches children how to use dictionaries as a way of storing data.

Resources

For this project, Python will need to be installed. It is recommended that version 3.2 of Python is installed.

Children can also make use of the materials which accompany these challenges. Files included in the 'Project Resources' folder (found under the 'Download Project Materials' link):

- TextSpeak.py

Make sure that each child has read and write access to their own copy of these resources.

You can find a completed version of this project's challenges by clicking the 'Download Project Materials' link for this project, which contains:

- TextSpeakFinished.py
- DistantPlanets.py
- PasswordProtection.py

Learning Objectives

- Using dictionaries to store and retrieve data;
- Removing dictionary data using the (del) method.

Challenges

- Adding translations - manipulating and using dictionaries;
- Testing your program - making the program more robust;
- Distant planets - applying the use of dictionaries to a new problem;
- Password protection - combining dictionaries with previously learnt concepts.

Frequently Asked Questions

- Children may need to be reminded that dictionary keys and associated data are separated by a colon, that dictionary items are separated by a comma, and that there is no comma after the last item in a dictionary.