**chap 10 Creating Images and Sound**

**Objectives**

* Understand how to use existing sound file, or create customized sound file with software *Audacity*
* Understand how to use Greenfoot class GreenfootSound to control sound playing
* Understand how to use existing image picture, and how to generate drawing using GreenfootImage class
* Understand the use of Gimp, image editor

**Schedule:** This lesson covers Moodle folder “chap 10”. Please follow the steps below.

1, work on sec 10.1 ~ 10.6, which has the starting scenario sound-test, and learn how to use existing sound file, or use class GreenfootSound to control sound. One sound editor is *Audacity* software: <http://audacityteam.org/>

2, work on sec 10.7 ~ 10.10, which has two scenarios: color-chart, and smoke. Scenario color-chart uses program-generated drawing, and smoke combines existing image picture with program-generated drawing, using class GreenfootImage’s control functions. One recommended image editor is Gimp: <https://www.gimp.org/downloads/>

3, in this chapter’s “Drill and practice” section, you can work on scenario path-follower, and the completed scenario path-follower-completed, and learn how to control image.

4, follow the instructions in file “**homework10.docx**”, and work on homework 10. After you finish it, you need to submit the solution zip file to its Moodle drop box. When coding your homework, please follow all the rules in file “RulesForIndentAndAlignCode.docx”.

5, next lesson, we will work on Moodle folder “chap 11 : Simulations; chap 13 : Additional scenario ideas; Final project”, and release the final project. Please study it in advance.