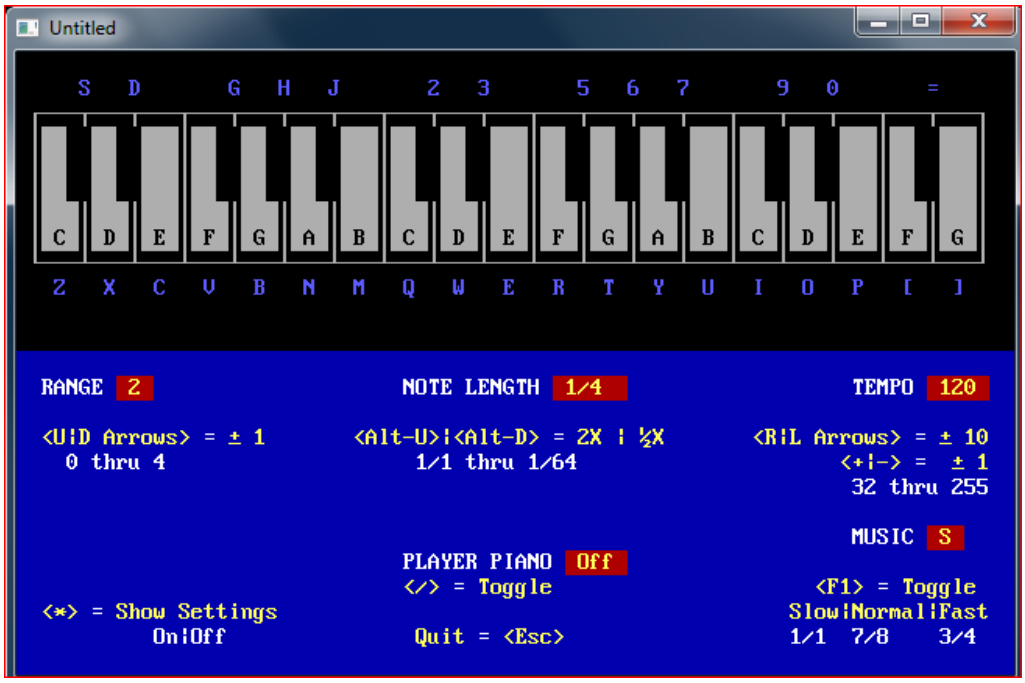
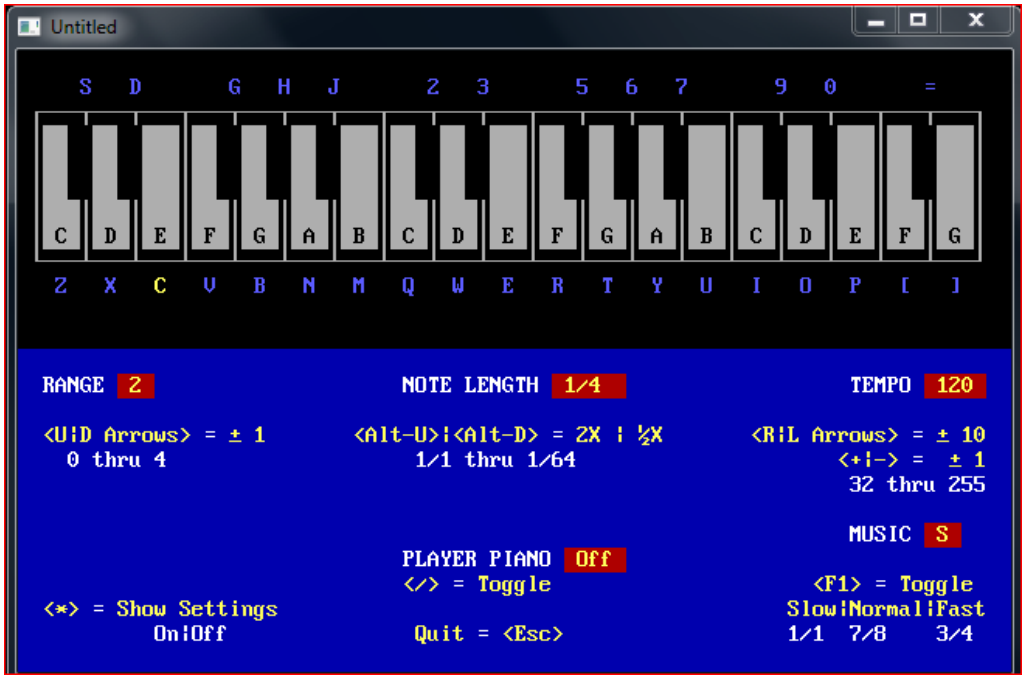
Keyboard & Player Piano

This program is designed to compose a song using the computer keyboard (*Keyboard Mode*) in order for the user to create and save a text file so that the program can playback the music composition (*Player Piano Mode*). It allows any user who can hum a tune to create music ─ even if the user cannot read a note of music (like me). The syntax used in the text file music composition is unique to this program and is explained below.



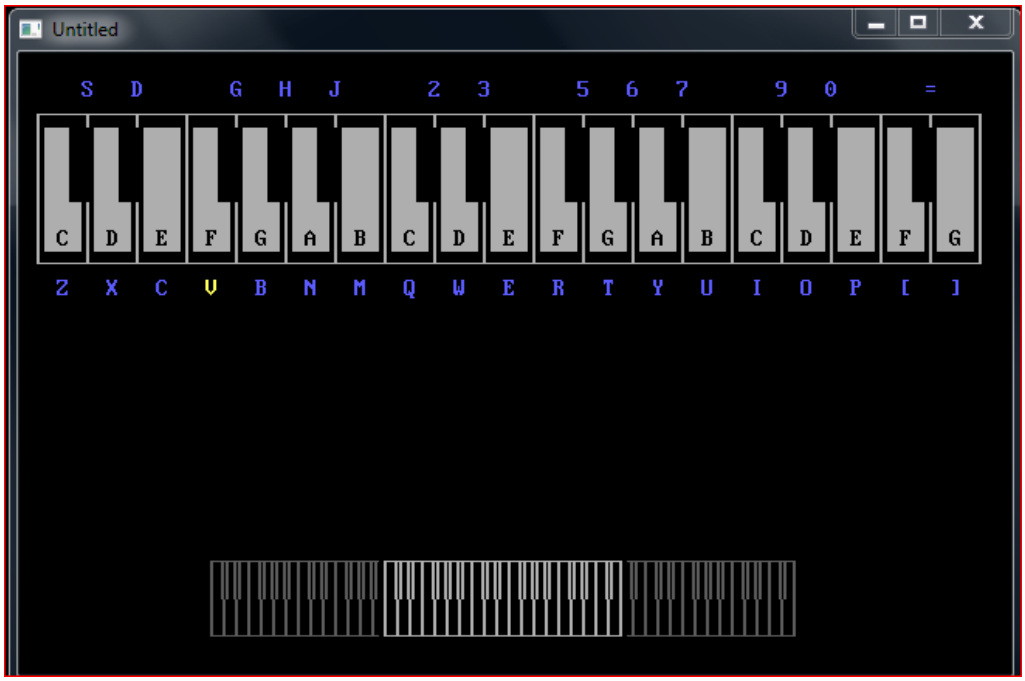
The opening *Keyboard Mode* screen with the *Settings* screen's editable options



This shows that when the <**C**> key is pressed, Note **E** is played.

Observe that the Octave Range can be changed using the <UpArrow> and <DownArrow> keys.

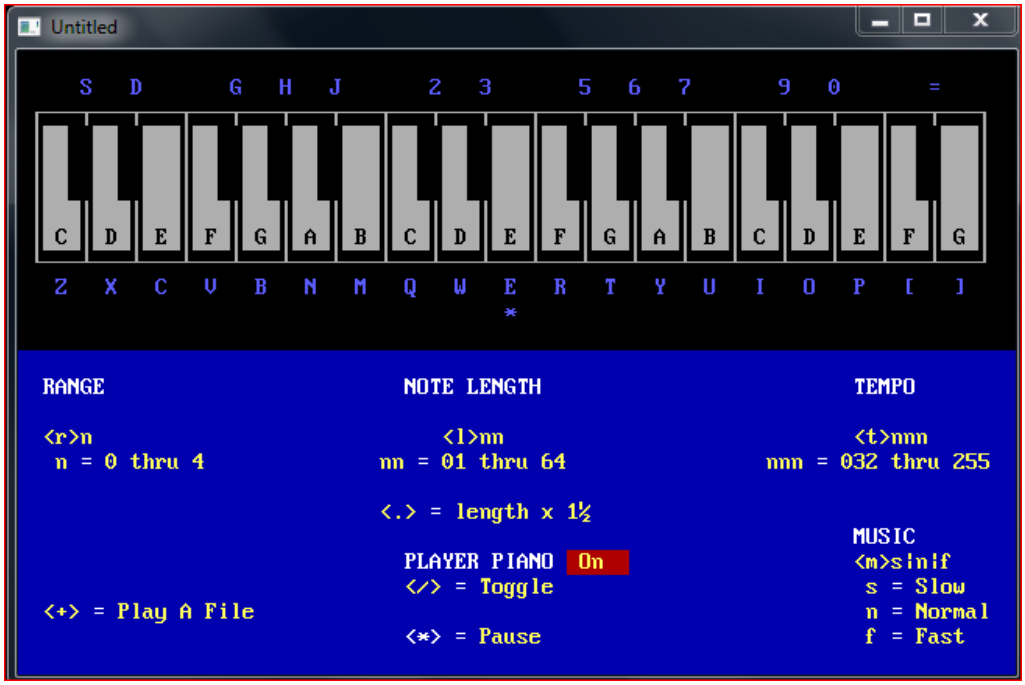
Also, observe that the <*> key will toggle the *Settings* screen Off & On.



Settings screen toggled Off with the <*> key. Toggle *Settings* screen back On with the <*> key again.

Octave 2 ─ shown here ─ can be changed using the <UpArrow> and <DownArrow> keys.

This shows that when the <**V**> key is pressed, Note **F** is played.



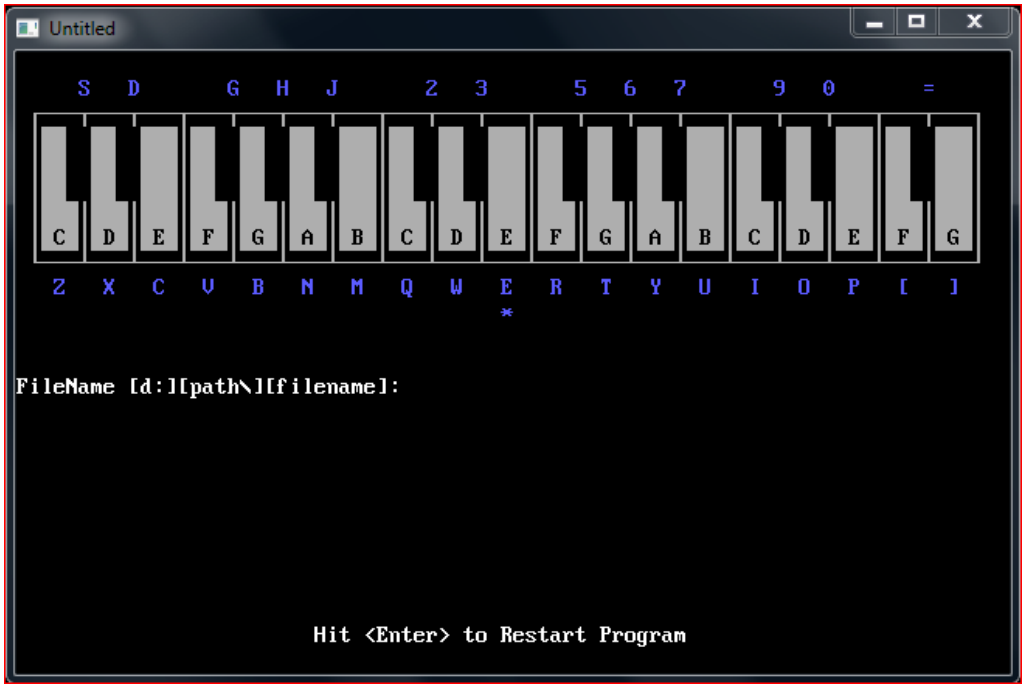
Player Piano Mode is toggled On with the </> key from the *Settings* screen in the *Keyboard Mode.*

This screen's function is to **show** the user the unique syntax that is used in creating a music composition text file. Each line in the text file is for a single **t***empo*, a single **m***usic* setting, a single octave **r***ange*, a single *Note* **l***ength*, **OR** a single **<***Keyboard Note***>**. This is the order of entry ─ line by line. Notice the use of ***lower case*** for ***t***, ***m***, ***r***, and ***l*** ─ each one followed by its appropriate number(s).

The next page shows my the beginning of my composition, Danny Boy. Please observe that if you want to extend the note length 1½ times its normal length, the period (**.**) goes **before** the note, but is interpreted by the program to play **after** the note.

Danny Boy (Intro)

```
t100
ms
r2
l04
C
V
B
l02
.N
l04
B
N
W
Q
N
B
V
l02
.X
l04
*
```



When the <+> key is hit from the previous *Player Piano Mode* screen, this screen is displayed for loading and then playing your saved music composition text file. After the music composition is finished playing, hit <Esc> to quit the program. You can also quit during the playing of a music composition by hitting the <Esc> key.

Note: The keyboard keys do **not** light up when playing the music composition text file. They only light up in the *Keyboard Mode* to aide in the construction of a music composition text file.