

Java - User Interface

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<https://github.com/wbombardellis/java-unterricht>

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Organization

1 User Interface

2 Summary

Variables Review

`https://www.youtube.com/watch?v=126oaHV7D40` (Until 1:56)

Alternative User Interface

- Not only terminal (text console)
- Also:
 - File System
 - Network
 - Graphical User Interface
 - Loudspeaker
 - ...

Exercises

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- Write a program that composes a melody of 10 notes using the chromatic scale and reproduces it in 60bpm.
- Write a program that composes a melody of **20** notes using the **whole tone scale** and reproduces it in **120bpm**.
 - The whole tone scale is composed of those notes reached with whole steps starting from the fundamental pitch. That is, starting from, say it, C, you get C, D, E, F#, G#, and A#.

Exercises

- Write a program that makes a 2D drawing of the models of the Hydrogen and Helium atoms at the screen.

Summary

- Many possibilities for human-machine interaction.
- Next Week: If-Else

References

- <https://docs.oracle.com/javase/tutorial/sound>
- [https://javatutorial.net/
display-text-and-graphics-java-jframe](https://javatutorial.net/display-text-and-graphics-java-jframe)
- [https://docs.oracle.com/javase/7/docs/api/java/
awt/Graphics.html](https://docs.oracle.com/javase/7/docs/api/java/awt/Graphics.html)