

**JListen Version 2.x Demo**

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**Background**

In all demonstrations today the primary purpose is to show that it is easy to listen to the data as it is generated and conclude how the data is changing. The first three demos sonify raw data while the last one sonifies the moving average of the data.

In all demos the data is being generated inside a Java program. However, the data could also be obtained from any sensor. For example, the data could be obtained from sensors connected to the human heart, analyzed by a Java program and sonified. Thus, one can “listen” to the changes in data and hence extract its “information content.” The demos are simple though more complex data sonifications are possible and will be programmed during Fall 2012.

**Demo summary**

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| **Demo** | **Data variation** | **Event-Sound mapping** |
| Sequential data | Listen to data that increases monotonically | Data🡪Piano sound |
| sin function | Listen to sinusoidal data | Data🡪Piano with strings in the background |
| Random Data | Liten to randomly varying data | Data🡪Piano |
| Average | Listen to the average of data | Data🡪Piano with strings as background |

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