



# Sound of Shopping

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# Roadmap

- 1 Idea**
- 2 Architecture**
- 3 JFugue**





Idea

# Team



Idea



Composition



Implementation



Sound Design

# Idea

- Read in **barcodes** of bought products
- Generate **individual** song
- Customer downloads **ringtone** via website
- Music can be **transformed back** to data







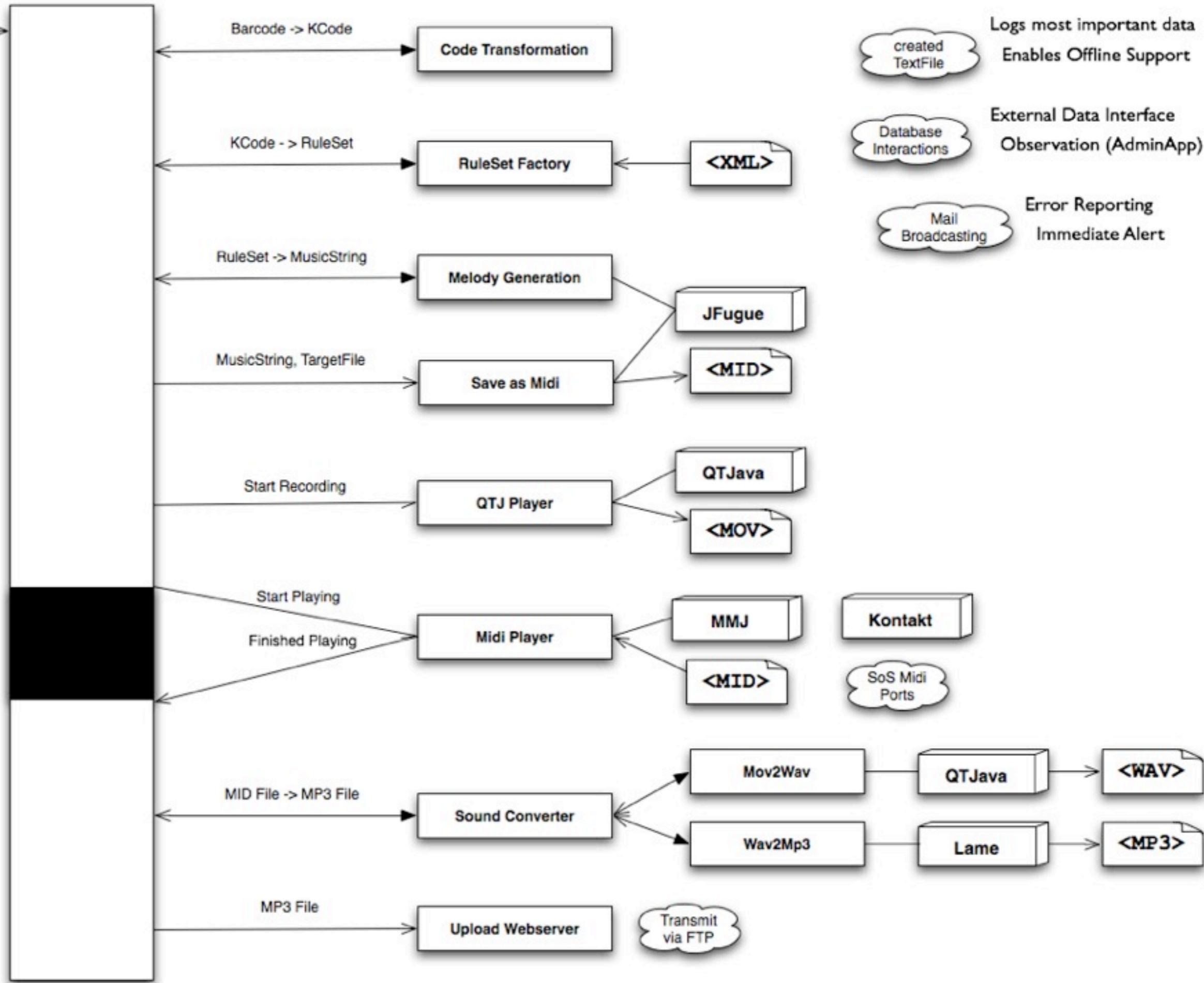
# Architecture

# Basics

- Barcode to K-code transformation
- Use proper ruleset/instrumentset
- Save MIDI and record sampler output

# System Architecture and Application Flow

Christoph Pickl, 26-06-2008  
<http://www.soundofshopping.com>



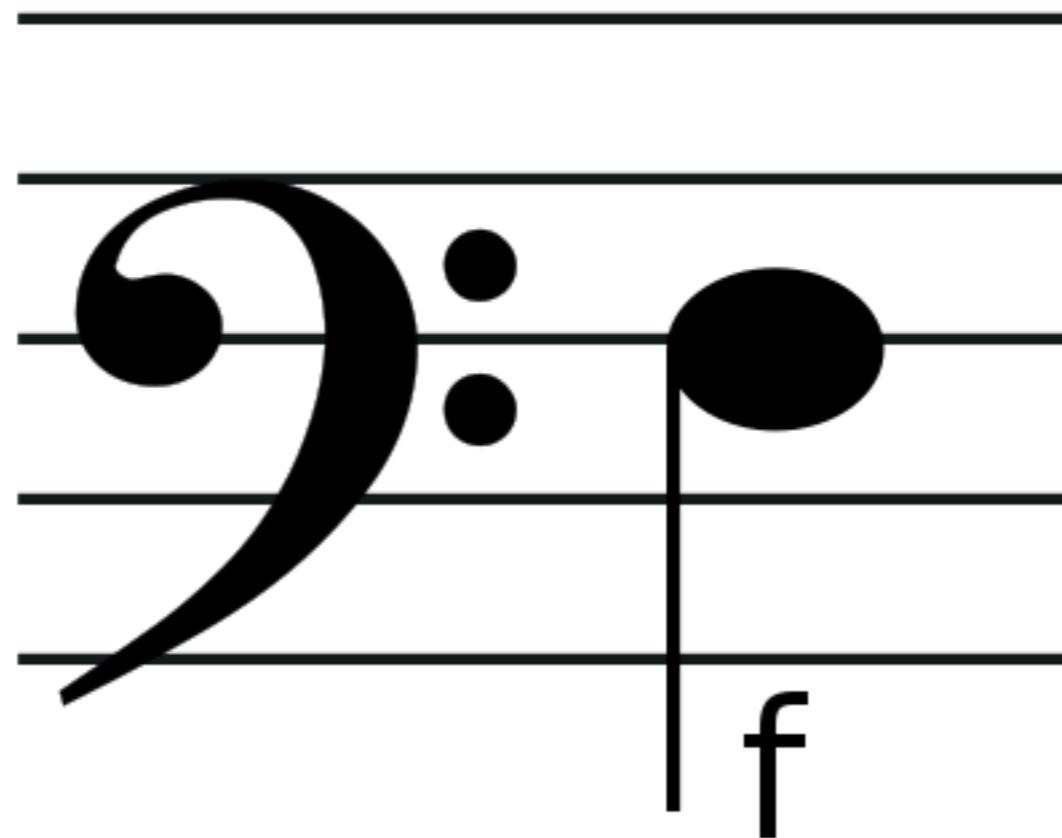
# SoS Net

- 2nd version using **web**interface
  - ◆ Remote server application
  - ◆ Database for communication
- Usersniffing instead barcodes
- Reused same core logic



# Sound Samples





JFugue

# Features

- No complex objects, just (Music-)Strings
- Specify notes, chords, instruments & tracks
- Play at runtime, save to MIDI file
- Music can be sent to/received from devices

# Example #1

```
import org.jfugue.Player;

public class Jsug {

    public static void main(String[] args) {
        Player player = new Player();
        String musicString = "C D E F G A B";
        player.play(musicString);
    }

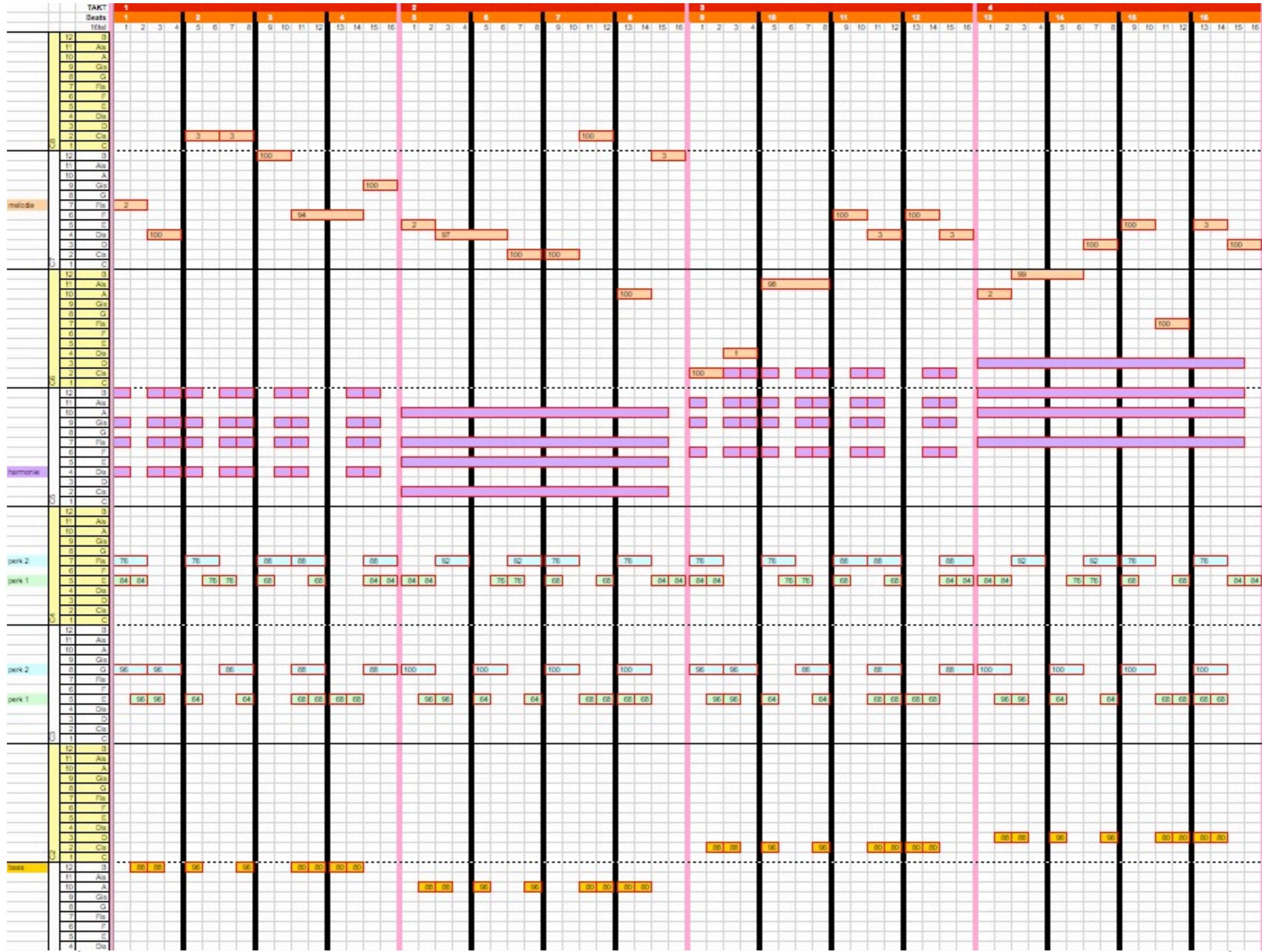
}
```

# Example #2

```
// "Frere Jacques"
Pattern pattern1 = new Pattern("C5q D5q E5q C5q");
// "Dormez-vous?"
Pattern pattern2 = new Pattern("E5q F5q G5h");
// "Sonnez les matines"
Pattern pattern3 = new Pattern("G5i A5i G5i F5i E5q C5q");
// "Ding ding dong"
Pattern pattern4 = new Pattern("C5q G4q C5h");

Pattern song = new Pattern();
song.add(pattern1, 2); // Adds 'pattern1' to 'song' twice
song.add(pattern2, 2); // Adds 'pattern2' to 'song' twice
song.add(pattern3, 2); // Adds 'pattern3' to 'song' twice
song.add(pattern4, 2); // Adds 'pattern4' to 'song' twice

new Player().saveMidi(song, new File("Frere Jacques.mid"));
```



# **SoS Net Demo**

- <http://soundofshopping.com>
- <http://jfugue.org>
- <http://tv.rebell.tv//p2628.html>
- <http://tv.rebell.tv/p2629.html>
- <http://www.sil.at/aktuelles/magazin/magazin-nr-14/seite-13/>

