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* To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
package beads;
import main.Template;
import net.beadsproject.beads.core.AudioContext;
import net.beadsproject.beads.core.UGen;
import net.beadsproject.beads.core.io.JavaSoundAudioIO;
import net.beadsproject.beads.data.Buffer;
import net.beadsproject.beads.ugens.WavePlayer;
import net.beadsproject.beads.ugens.Compressor;
import net.beadsproject.beads.ugens.LPRezFilter;
import net.beadsproject.beads.ugens.Reverb;
/**
 * @author Reznov
 */
public class BeadsTemplate extends Template<WavePlayer, LPRezFilter, Compressor, Reverb> {
    private AudioContext audioCtx;
    public BeadsTemplate() {
        super("Beads");
    @Override
    public void setup(int voices, int voicesToEQAndComp, int effects, int voicesToEffects) {
        initLibrary();
        int i, j;
        for (i = 0; i < voices; i++) {
            this voices add(new WavePlayer(audioCtx, 440, Buffer SAW));
        for (i = 0; i < voicesToEQAndComp; i++) {</pre>
            this equalizers add(new LPRezFilter(audioCtx));
            this compressors add(new Compressor(audioCtx));
            this equalizers get(i) addInput(this voices get(i));
            this compressors get(i) addInput(this equalizers get(i));
        for (i = 0; i < voicesToEffects; i++) {
            for (j = 0; j < effects; j++) {
                this effects add(new Reverb(audioCtx));
                UGen previousModule;
                if (j == 0) {
                    if (usesCompressors()) {
                        previousModule = this compressors get(i);
                    } else {
                        previousModule = this voices get(i);
                    this effects get(i) addInput(previousModule);
                } else {
                    this effects get(i * effects + j) addInput(this effects get(i * effects + j - 1));
            audioCtx out addInput(this effects get(i * effects + j - 1));
        for (i = i; i < voicesToEQAndComp; i++) {</pre>
            audioCtx.out.addInput(this.compressors.get(i));
        for (i = i; i < voices; i++) {
            audioCtx out addInput(this voices get(i));
        }
    }
    @Override
    public void run() {
        audioCtx.start();
    @Override
```

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public void stop() {
    audioCtx stop();
@Override
public void tearDown() {
    voices forEach(voice -> audioCtx out removeAllConnections(voice));
    equalizers forEach(equalizer -> audioCtx out removeAllConnections(equalizer));
    compressors forEach(compressor -> audioCtx.out removeAllConnections(compressor));
    effects forEach(effect -> audioCtx out removeAllConnections(effect));
    reset();
   System gc();
}
@Override
protected void initLibrary() {
    JavaSoundAudioIO aio = new JavaSoundAudioIO();
    aio.selectMixer(2);
    audioCtx = new AudioContext(aio);
}
```

}