53: 54:

55:

56:

sf::Sound sounds[37];

sf::SoundBuffer bufs[37];

```
main.cpp
                Tue May 06 22:32:43 2014
   57:
         string keyboard = "q2we4r5ty7u8i9op-[=zxdcfvgbnjmk,.;/' ";
   58:
         int posMap[128];
   59:
         for(int i=0;i<128;i++) posMap[i]=-1;
   60:
   61:
         for(int i=0;i<keyboard.size();i++){</pre>
   62:
           posMap[keyboard[i]] = i;
   63:
   64:
         for(int i=0;i<37;i++){
   65:
   66:
           double freq = CONCERT_A*pow(2, ((double)(i-24)/12.0));
   67:
           GuitarString gs = GuitarString(freq);
   68:
              /*sf::Sound sound;
                sf::SoundBuffer buf;
   69:
                sounds.push_back(sound);
   70:
   71:
               bufs.push_back(buf);
   72:
                * /
   73:
           vector<sf::Int16> samples = makeSamplesFromString(gs);
   74:
           if (!bufs[i].loadFromSamples(&samples[0], samples.size(), 2, SAMPLES_
PER SEC))
   75:
             throw std::runtime_error("sf::SoundBuffer: failed to load from samp
les.");
   76:
                sounds[i].setBuffer(bufs[i]);
   77:
            }
   78:
   79:
         while (window.isOpen()) {
   80:
   81:
           while (window.pollEvent(event)) {
   82:
   83:
             switch (event.type) {
   84:
             case sf::Event::Closed:
   85:
               window.close();
   86:
               break;
   87:
   88:
             case sf::Event::TextEntered:
   89:
               cout << static cast<char>(event.text.unicode) << " "</pre>
   90:
                    << posMap[static_cast<char>(event.text.unicode)] << endl;</pre>
   91:
   92:
                if (posMap[static_cast<char>(event.text.unicode)]>=0)
   93:
                    sounds[posMap[static_cast<char>(event.text.unicode)]].play();
   94:
                break;
   95:
             default:
   96:
   97:
               break;
   98:
              }
   99:
  100:
             window.clear();
  101:
  102:
             window.display();
  103:
  104:
            }
  105:
         }
  106:
         return 0;
  107: }
```