Moving forwards and backwards in time

Songlib keeps track of the current location in the track being generated. When a note is played, the amplitude
data is added to the output starting at the current location. After the note is played, the current location
is moved forward so that the next note played will follow sequentially the just played note.

It is possible to move forwards into the track being generated without playing any notes. It also is possible
to move backwards as well, so that notes can be overlapped:

    double forwards(double beats);
    double backwards(double beats);

The forwards function moves the current location ahead the given number of beats while the backwards
function moves the current location in the opposite direction. Both functions return the previous location
(specified as the number of beats since the beginning).

The forwards and backwards make a move relative to the current location. It is also possible to move to an
absolute location in the track, with the location specified by the number of samples into the track:

    int setLocation(int samples);
    int getLocation(void);

The setLocation function returns the previous current location.

If you wish to move $x$ seconds or $y$ beats into the track, use the calls:

    setLocation(secondsToSamples(x));
    setLocation(beatsToSamples(y));

respectively.

See also: keepingTime, controlFunctions