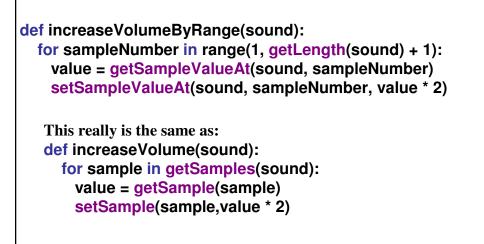
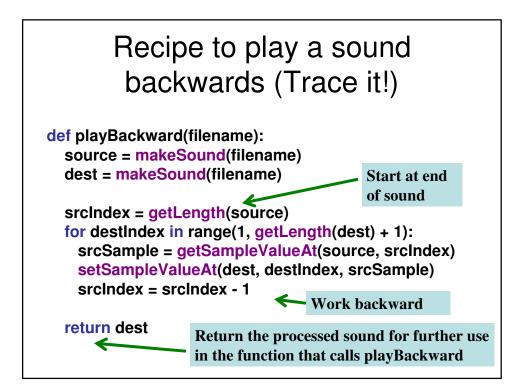
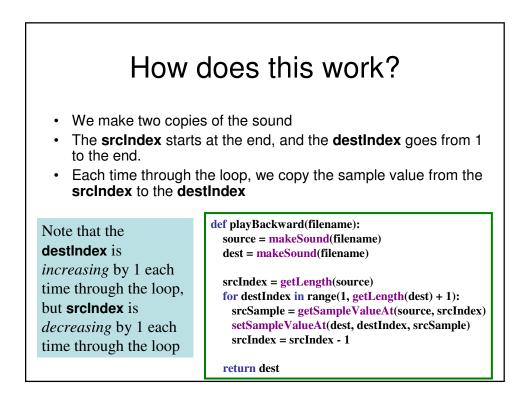


## Increasing volume by *sample index*



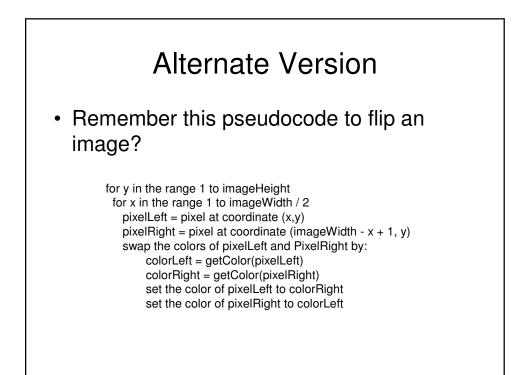


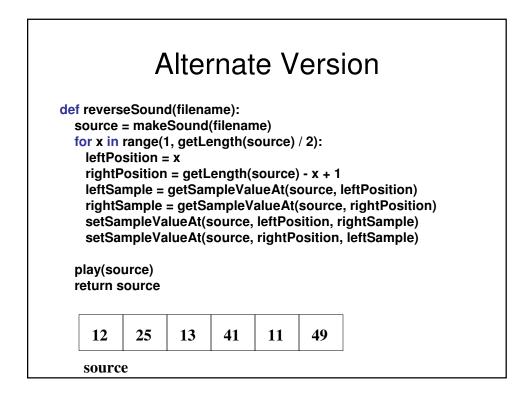
Walkthrough								
<pre>def playBackward(filename):     source = makeSound(filename)     dest = makeSound(filename)</pre>								
<pre>srcIndex = getLength(source) for destIndex in range(1, getLength(dest) + 1):     srcSample = getSampleValueAt(source, srcIndex)     setSampleValueAt(dest, destIndex, srcSample)     srcIndex = srcIndex - 1 return dest</pre>								
	12	25	13		12	25	13	
source				-	dest			

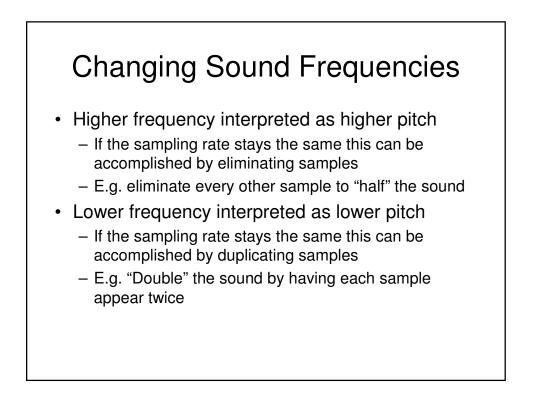


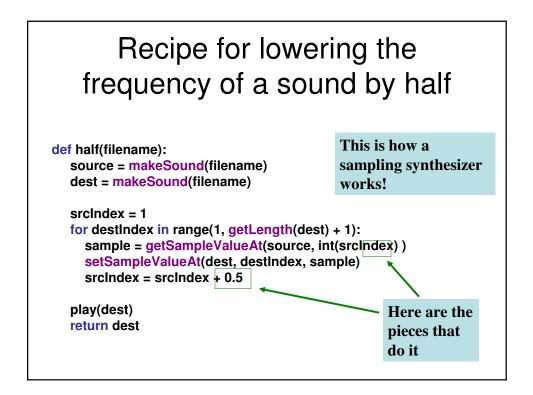
## Uses?

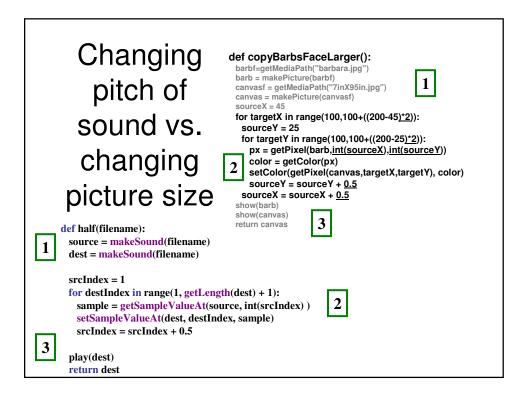
- Just for fun
- Sound reversals in music, speech, etc...

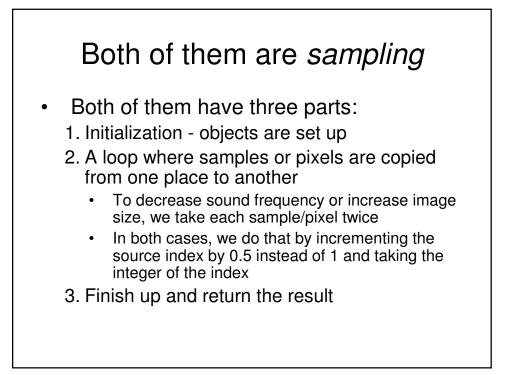


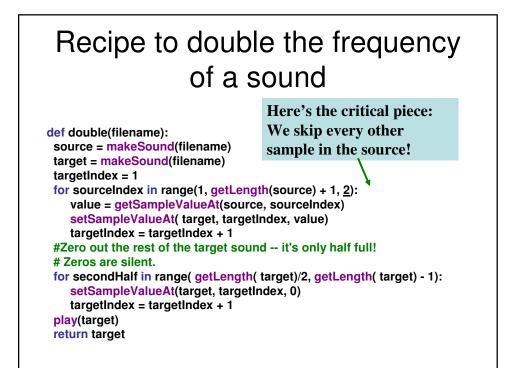


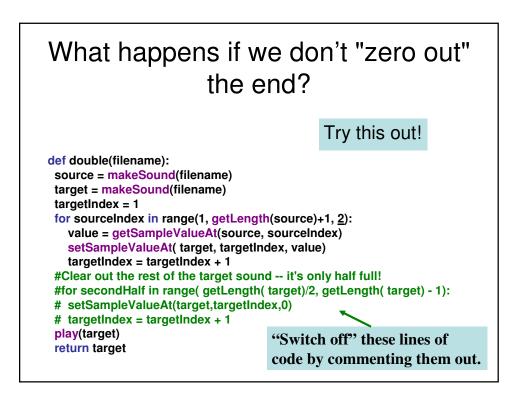


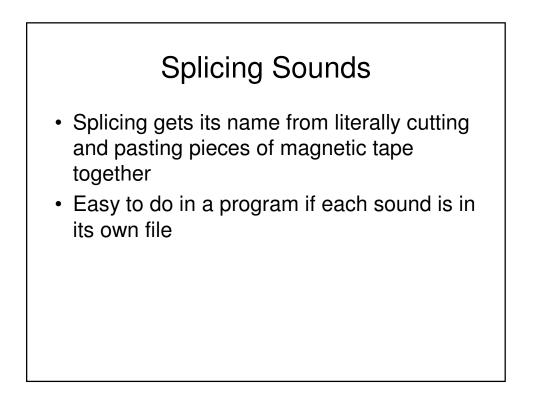


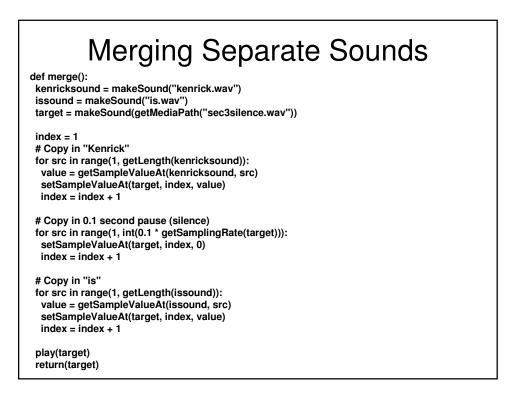


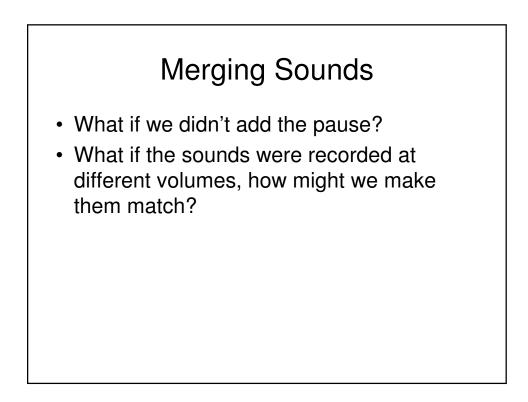






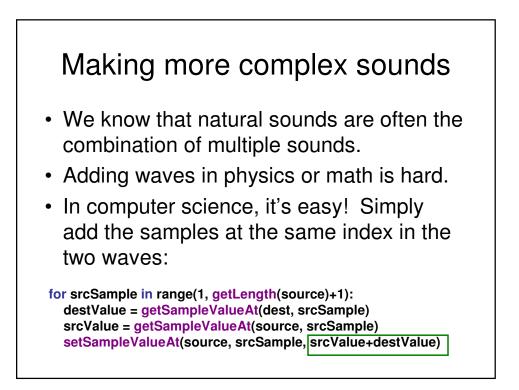


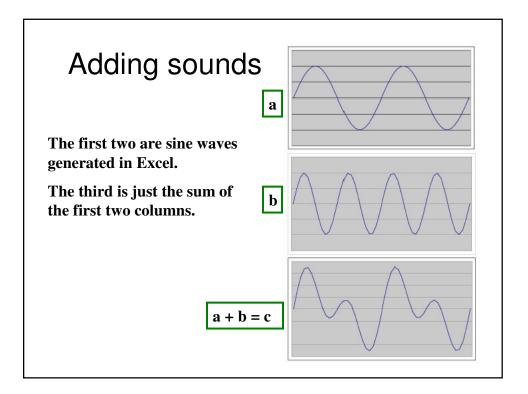


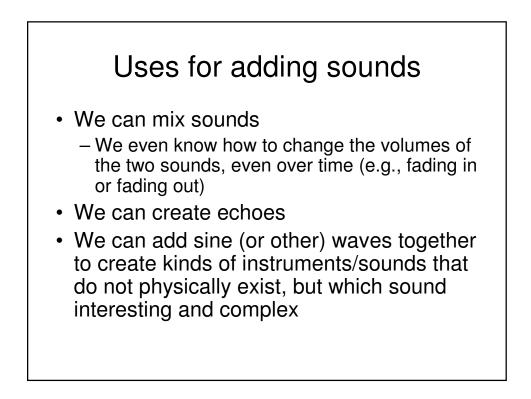


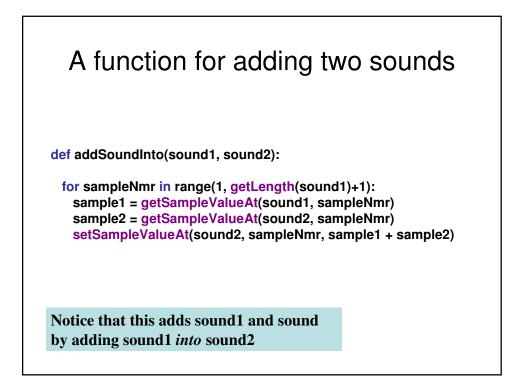
## Changing the splice

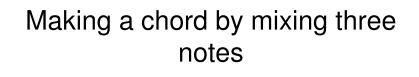
- What if we wanted to increase or decrease the volume of an inserted word?
  - Simple! Multiply each sample by something as it's pulled from the source.
- Could we do something like slowly increase volume (emphasis) or normalize the sound?
  - Sure! Just like we've done in past programs, but instead of working across *all* samples, we work across only the samples in that sound!











>>> setMediaFolder()
New media folder: C:\mediasources\
>>> getMediaPath("bassoon-c4.wav")
'C:\\mediasources\\bassoon-c4.wav'
>>> c4=makeSound(getMediaPath("bassoon-c4.wav"))
>>> e4=makeSound(getMediaPath("bassoon-e4.wav"))
>>> g4=makeSound(getMediaPath("bassoon-g4.wav"))
>>> addSoundInto(e4,c4)
>>> play(c4)
>>> play(c4)

## Adding sounds with a delay

def makeChord(sound1, sound2, sound3): for index in range(1, getLength(sound1)): s1Sample = getSampleValueAt(sound1, index) if index > 1000: s2Sample = getSampleValueAt(sound2, index - 1000) setSampleValueAt(sound1, index, s1Sample + s2Sample) if index > 2000: s3Sample = getSampleValueAt(sound3, index - 2000) setSampleValueAt(sound1, index, s1Sample + s2Sample + s3Sample) setSampleValueAt(sound1, index, s1Sample + s2Sample + s3Sample)