The continue of the continue		디지털 신호 처리 3주차 과제
The content	In [74]:	from IPython.display import Audio
The state of the		
1987		<pre>wave = read_wave('piano_sound.wav') wave.make_audio()</pre>
		1.00 0.75 0.50 0.25 0.00 -0.25 -0.50 -0.75 -1.00
# 1		<pre>start = 0 duration = 0.5 segment = wave.segment(start, duration) segment.make_audio()</pre>
# 2	In [78]:	
#####################################		0.8 - 0.6 - 0.4 - 0.2 - 0.4 - 0.6 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 - 0.8 -
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### ### #############################		1250 - 1000 - 750 - 500 - 250 - 0 - 0 - 0 - 5000 10000 15000 20000
### 10	In [80]:	spectrum.low_pass(5000)
# 15 10 10 10 10 10 10 10 10 10 10 10 10 10		1500 - 1250 - 1000 - 750 - 500 - 250 - 0
### (Part of the product of the pro		
### #################################	In [82]:	filtered.normalize()
### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 #### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 ### 1997 #	In [83]:	filtered.apodize()
2 [45] 11store. rota_multis() 2 c2(지)		0.75 - 0.50 - 0.25 - 0.50 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.75 - 0.
### 2017년 사진 모양 10 교 해보기 *** (2017년 사진 모양 10 교 제보기 ** (2017년 사진 모양 10 교 제보기 *** (2017년 사진 모양 10 교 제보기 ** (2017년 사진 모양 10 교 제보기	In [84]:	
(2.131) ** *** *** *** *** *** *** *** *** **	Out[84]:	▶ 0:00 / 0:00 → • • • • • • • • • • • • • • • • • • •
### 100 200 200	In [85]:	
O I 전에 주가로, high pass 식용해보기 29 [487]	Out[85]:	▶ 0:00 / 0:00 →
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Tiltered specifical section (1987) 10 [80]:	In [87]:	0 5000 10000 15000 20000 filtered = spectrum.make_wave()
In [88]: In		filtered.apodize() filtered.plot() 100 0.75
To [88]: p 0.000 / 0.000		0.00 - -0.25 - -0.50 - -0.75 - -1.00 -
역시 오리지날 사운드와 비교 rn [89]: segment.make audfo() P 000/0:00		
To [89]: segment.make_audio() Out[89]:	out[88]:	
P 0.00/0.00 + 9 : 오리지날에 비해, 낮은음들이 안들리는게 확실하게 느껴집니다. band_stop 사용해보기 In [98]: spectrum.band_stop(2009,3000) 300 300 300 300 300 300 300 300 30		
band_stop 사용해보기 spectrum.band_stop(2000,3000) 10	Out[89]:	
Spectrum plot() 100 15000 15000 20000 15000 15000 20000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15		
In [91]: filtered = spectrum.make_wave() filtered.apodize() filtered.plot() 1n [92]: filtered.apodize() filtered.plot() 1n [92]: filtered.make_audio()	In [90]:	<pre>spectrum.plot()</pre>
In [91]: filtered = spectrum.make_wave() filtered.normalize() filtered.podize() filtered.plot() 0.75 0.50 0.25 0.00 0.25 0.00 0.75 1.00 0.00 0.01 0.02 0.03 0.04 0.5 In [92]: filtered.make_audio() 0ut[92]:		300 - 250 - 200 - 150 - 100 - 50 -
filtered.plot() 0.75 0.50 0.25 0.00 -0.25 -0.50 -0.75 -1.00 0.00 0.1 0.2 0.3 0.4 0.5 In [92]: filtered.make_audio() Out[92]: 가운데를 비워버려서, 큰 사운드 차이가 날 줄 알았지만, 사운드 차이가 거의 없었습니다.	In [91]:	<pre>filtered = spectrum.make_wave() filtered.normalize() filtered.apodize()</pre>
-0.25 -0.50 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -1.00 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75 -0.75		0.75 - 0.50 - 0.25 -
Out[92]: ▶ 0:00 / 0:00 ♣) : 가운데를 비워버려서, 큰 사운드 차이가 날 줄 알았지만, 사운드 차이가 거의 없었습니다.		-0.25 - -0.50 - -0.75 - -1.00 -
▶ 0:00 / 0:00 • • : 가운데를 비워버려서, 큰 사운드 차이가 날 줄 알았지만, 사운드 차이가 거의 없었습니다.		
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