











An OO Model		
object		
signal waveform trace measurement trigger mode		
max-min wvfm x-y wvfm accumulate wvfm		
 waveform a (seq. of) oscillations, in voltages, in a given time interval trace a (seq. of) oscillations, on screen, in a given time interval measurement frequency in general #peaks in a given segment max/min/avg peak max/min/avg rise or fall in slope 		
A. I	rise/decline time	
 ✤ trigger mode 	slopes greater than a given threshold value	
 Ied to a concept recognition & clarification of the data types 		
 no overall model for explaining how the types fit together 		
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A Layered Model		
User Interface	interacts with the user and decides which data to show on the screen	
Visualization	manipulates saveform (incl. waveform addition) Fourier transformation (converting input signal from time domain to frequency domain) maps digitized waveforms (& measurements) to visula rep.	
Digitization	digitize signals and store them internally for later processing waveform acquisition (extracting a bounded time slice of a signal)	
Hardware	manipulates fns that filter signals as they enter the oscilloscope	
 Constraint communication between neighboring layers only intuitively appealing, due to partitioning of fns into well-defined groupings 		
 boundaries of abstraction conflicted with the needs for fn interactions users need to affect 		
 ⇒ cho in I ⇒ creation 	ting channels in Hardware layer posing acquisition mode & parameters (e.g., threshold values) Digitization layer ating derived waveforms (e.g., scaling factor) /isualization layer	
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