

GNU Radio Companion: Tutorial 3

GNU Radio Companion: Tutorial 3 - Types, channel selection, and graphical sinks.

<https://www.youtube.com/watch?v=jMLUQa9A5Mk>

Time-based Table of Contents:

00:05 UDP Source
00:30 Types and Vector form
00:40 UDP Source properties
00:51 How 'Types' work at the different levels of GNU Radio
01:59 IShort To Complex: Interleaved Sequence of I & Q
02:31 Vector to Stream
04:15 Frequency Xlating FIR Filter for Channel Selection
04:27 Calculating incoming sample rate
05:10 Frequency Xlating FIR Filter properties
06:35 XMLRPC Server
07:23 Variable Config for persisting Variable state
08:39 Fast Auto-correlation Sink
09:04 Constellation Sink
09:23 Re-sampling for the Constellation Sink
09:46 Quadrature Demodulator
10:32 Demo
11:02 Varying filter bandwidth
11:35 Scope Plot of channel
11:49 Constellation Plot of FM
11:54 Waterfall Plot
12:20 Scope Plot of Quadrature Demodulation
14:00 Fast Auto-correlation of channel
14:42 Nature of points on Constellation Plot and XY Scope Plot