

GNU Radio Basics

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GNURadio

GNURadio is a free and open-source software development toolkit that provides signal processing blocks to implement software radios. It can be used with readily-available low-cost external RF hardware to create software-defined radios, or without hardware in a simulation-like environment. It is widely used in research, industry, academia, government, and hobbyist environments to support both wireless communications research and real-world radio systems.

Go through the following videos to familiarize yourself with GNURadio basics:

<https://www.youtube.com/watch?v=S5Fm1yu-bbc>
<https://www.youtube.com/watch?v=Yc3K3bUxPW8>
<https://www.youtube.com/watch?v=Ka540X5NjwE>
https://www.youtube.com/watch?v=7dvw-B_CGEg
<https://www.youtube.com/watch?v=N9SLAnG1GQs>

Some useful links:

- GNU radio Wiki link for guided tutorial
https://wiki.gnuradio.org/index.php/Main_Page#Software-Defined-Radio-Track
- GNU radio block documentation
http://www.ece.uvic.ca/~elec350/grc_doc/index.html
- GNU radio official site
<https://www.gnuradio.org/>