SDR in ORBIT: Spectrum Sensing

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SDR in ORBIT

- **SDR (software-defined radio)** - radio communication system in which components that would usually be implemented using hardware are instead implemented using software.

Spectrum Sensing Game

- Detecting a randomly generated signal from an unknown source
- “Whack-a-Mole”
- The goal: To scan the spectrum of available radio frequencies for bands that are currently in use, so that other applications can use open frequency bands and minimize interference
Next Week

- Signal processing (DSP Tutorial)
- GNU Radio (perform signal processing)
- MATLAB (functions such as fft, “Finite Fourier Transform”)