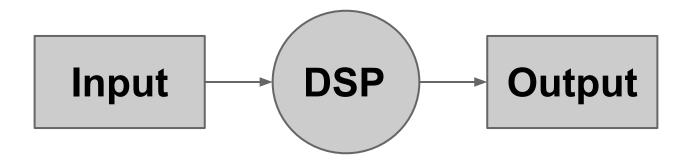
Digital Signal Processing and the STM32

Adam Greig, Jon Sowman & Matt Brejza

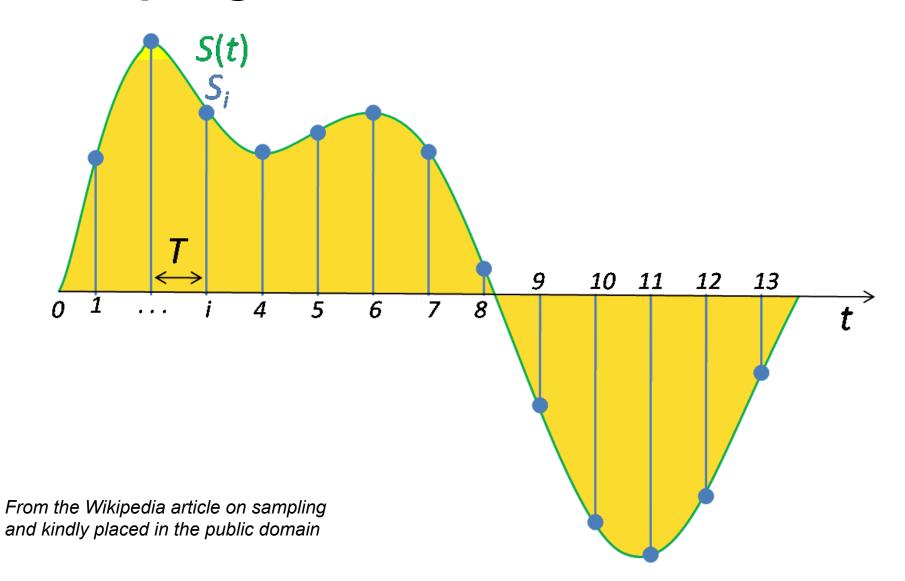
Schedule

- DSP Fundamentals (by Adam)
 - We'll cover what DSP is, some basic concepts
 - and walk through a simple RTTY decoder
- STM32 Introduction (by Jon)
- DSP on the STM32 (by Matt)

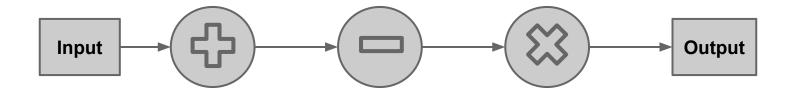
DSP Basics



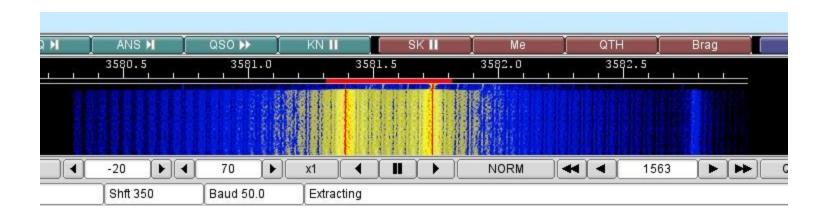
Sampling



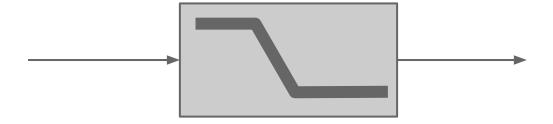
Common Operations



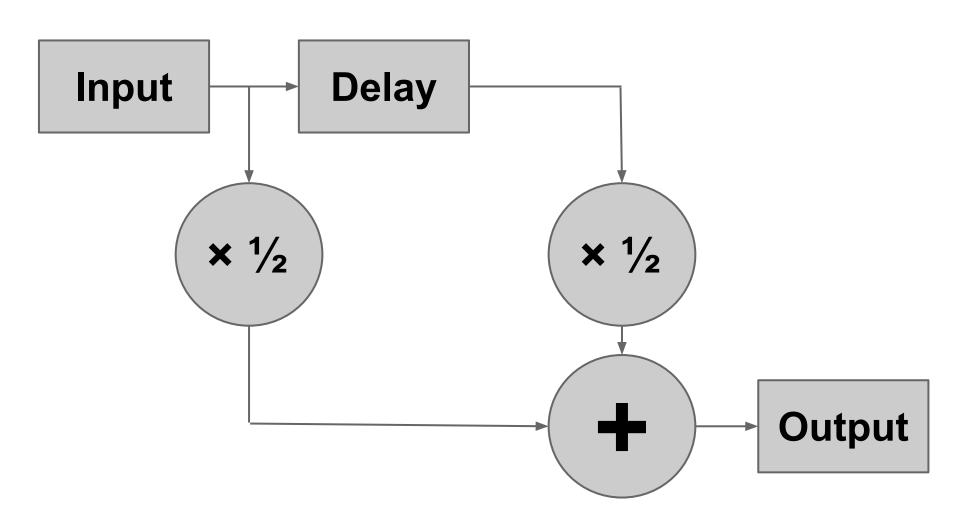
Frequency Content

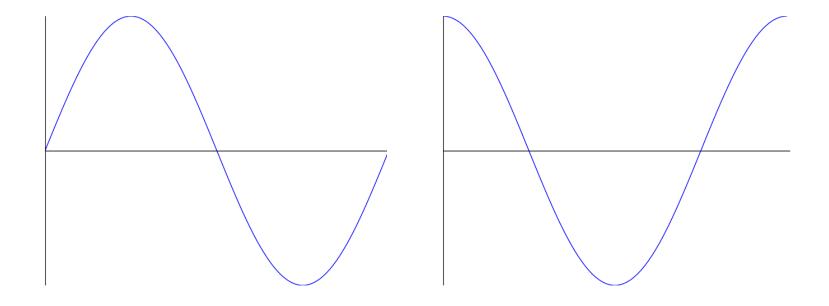


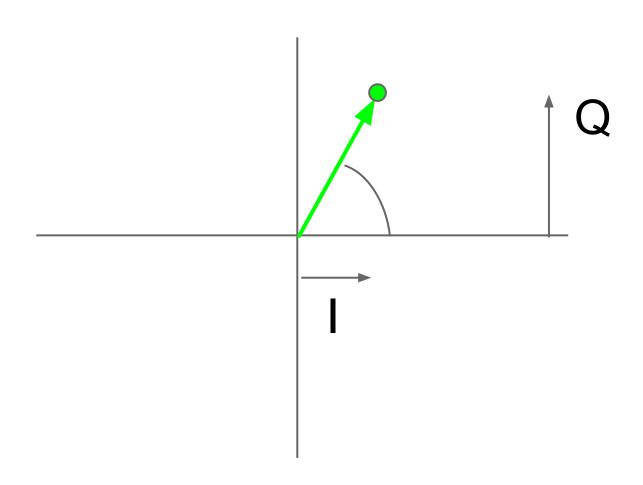
Low Pass Filters

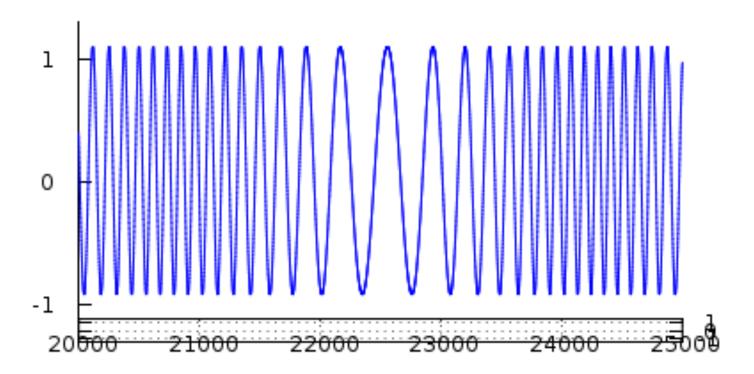


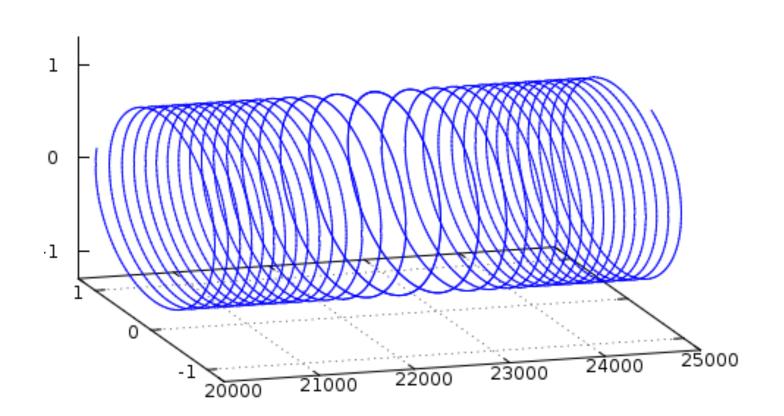
FIR Filters Moving Average Filter











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Mixing