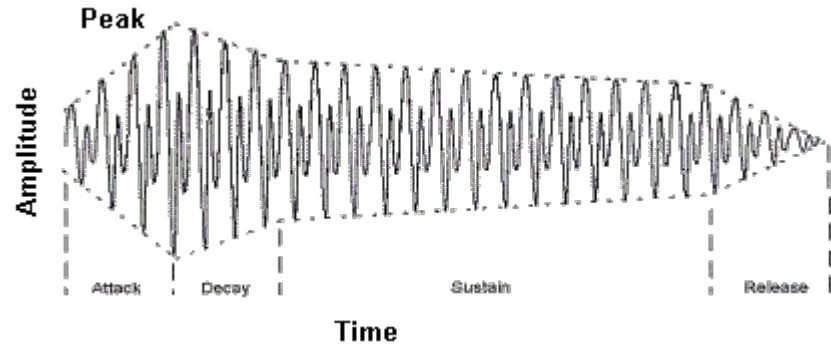
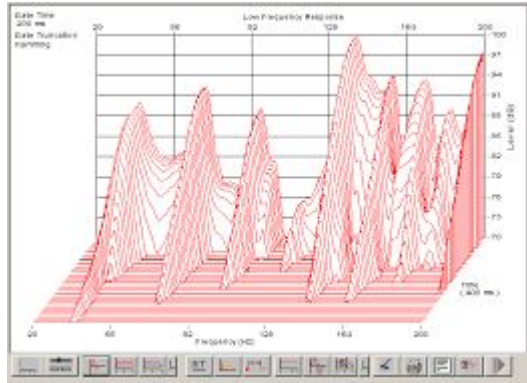


Modelling Instrument Sound Decay

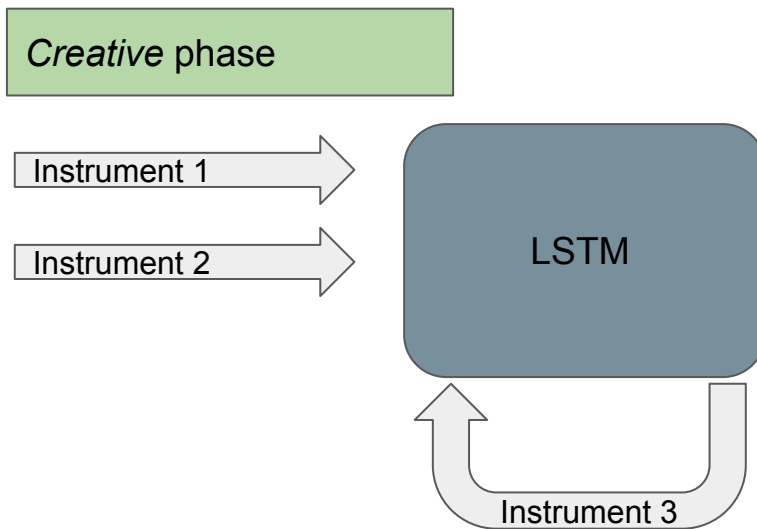
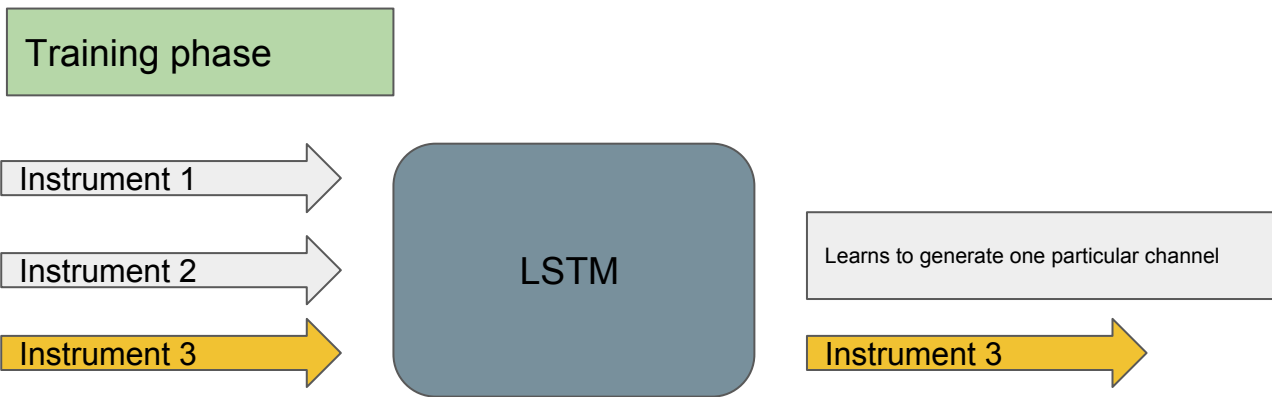
- Architecture
 - One LSTM for one instrument. Try out specific models from papers
- Data-Set
 - Ableton Sound Library
- Representation
 - Try raw sound wave first, then spectrogram
- Loss function
 - ??? What do we want to optimize?
- Goals
 - 1. Learn sound decay over different pitches for one instrument
 - 2. See if LSTM can generalize to families of instruments

Signal representation



Generating Alongside Additional Channels

- Architecture
 - LSTM with multi-channel audio input and single channel output
- Data-Set
 - Multi channel audio files (play-along CDs, Choir recordings, etc.)
 - of the same ensemble, recording conditions and composer.
- Representation
 - Depends on results of the prior task.
 - Possibly MIDI as last resort for a proof of concept



Planning next 2 weeks

1. Week 1 - Modelling Instrument Sound Decay
2. Week 2 - Generating Alongside Additional Channels
3. Weekend 25/26 June - Write report