**6.542J, 24.966J, HST.712J LABORATORY ON THE PHYSIOLOGY,
ACOUSTICS, AND PERCEPTION OF SPEECH
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Kenneth N. Stevens   Joseph S. Perkell
Stefanie Shattuck-Hufnagel

Lab 1 Handout   *09/08/05*

Using Klattools on UNIX system

1. **To log in**
    Type *labc*
    Type *password*
    Type startx
    Click on *xterm*
    Cd *group1, group2, group3, …* (depending on your group)

2. **To make a spectrogram of a file xxx.wav**
    Type *lspecto xxx*
    This creates a ps file xxx.ps
    To print the spectrogram type *lpr xxx.ps*

3. **To examine waveforms and spectra**
    Type *xkl xxx*
    This will display a waveform (at top), an expanded waveform (bottom left), and a
    spectrum at the location of the cursor (middle left).
    Parameters of spectrum can be changed by clicking on *spectrum*.

    To make a spectrogram
    Type *i*

    To save a spectrum or waveform
    Click on file and follow instructions.
    (a) open a ps file yyy.ps (b) save to ps file (c) close ps file
    To print, type *lpr yyy.ps*

4. **To edit a waveform**
    Set start of selected region using cursor, type *w*.
    Set end of selected region using cursor, type *e*.
    Save *w – e* to *.wav* file by typing *o*.