

## Chapter 6. Meeting 6, Workshop

### 6.1. Announcements

- Musical Design Report 1 due Today, 23 February
- Quiz on Thursday
- Download Martingale:  
<http://code.google.com/p/martingale/>

### 6.2. Workshop: Musical Design Report 1

- Four students will present their reports today

### 6.3. Installing and Configuring Csound

- Download and install most recent Csound 5  
<http://sourceforge.net/projects/csound/files/>
- Test installation
  - Windows: run Csound.exe
  - Others: open a terminal, enter: csound

### 6.4. Testing Csound in athenaCL

- athenaCL can write separate score and orchestra files, or a combined .scd file; depends on EventOutput settings (select csd with EOO)
- athenaCL may need to have a user preference set for where the Csound binary is located (use the APea command)
- athenaCL will create a batch file (.bat) to automate rendering of Csound files to audio
- The audio file, after rendering, will be stored and named in the same location as other output files
- Command sequence:

- `emo cn`
- `tin a 82`
- `tie x6 ws,e,14,0,200,16000`
- `eln`
- `elr`
- `elh`
- With the `ELauto` command, rendering (`ELr`) and hearing (`ELh`) can be automatically executed following the use of `ELn`

## 6.5. Testing PD and Martingale

- Download and install PD-Extended  
<http://puredata.info/downloads>
- Download Martingale manually:  
<http://code.google.com/p/martingale/>
- Place `martingale` anywhere on your file system
- Add the “`martingale/pd/lib`” directory to Preferences > Path; this permits loading abstractions from the `martingale` library
- Open `pd/demo/earLimits.pd`
- Make sure “compute audio” is on, click check boxes, and select frequencies

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