

Introduction

Logistics

- As a general comment this class will not be hard but will require consistent and sustained work throughout the term. Late term crunchers will have a hard time.
- Assignments (35%) Assignments will be done individually. For some assignments that involve audio there will be individual meetings with the instructor to evaluate the assignment.
- Final project (35%) The final project is an important component of the course. It can be done either individually or in groups of two. Each project will be unique and the workload will be adjusted appropriately. For group projects a clear separation of tasks between the two members will be required. Work towards the final project will be spread across the entire term. A list of candidate projects will be posted on the website but feel free to suggest your own.
- Make sure you have a valid UVic email
- The course webpage <http://www.cs.uvic.ca/~gtzan/elec484/Summer2007/> will be the central place for getting information so bookmark and check frequently
- Notes will appear on webpage after corresponding lecture
- Try to plan for 1.5 hours homework/preparation per lecture
- We will try to expand beyond MATLAB and explore how to write audio processing software in other languages/environments
- No class May 14, May 17 guest lecture by Adam Tindale

Some motivating questions/demos/sounds

Computer Music

- factura / Dennis H. Miller
- Interface excerpt 2 - Dan Trueman

- Princeton Laptop Orchestra
- ESitar + League of Musical Urban Robots (Lemur)
- i-send-data-live

Software

- Audacity
- SndPeak
- MarPhasevocoder
- Ragamatic
- Chuck

Questions

- Let's draw a sine wave
- What is the amplitude, frequency and phase of a sinusoid ?
- Why are sine waves important ?