

CS 482, Spring 2009
Assignment #6
SE Project
Beautiful Butterflies

Due 4/15(version 1.0) and then (version 2.0) on **Demo Day** (the last day of class)/09, in class

Introduction

The goal of this assignment is to gain experience with the steps from a complete software projects from beginning to end.

Your Client

Eastman Art Inc. believes that the next craze in fashion will be artificial butterfly wings! The main selling point is that each pair of wings will be unique! Thus, *Eastman Art Inc.* needs software to help create the billions of pairs of wings that they expect to sell.

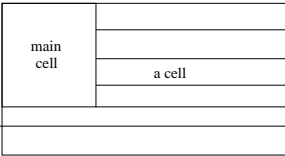
Rolls

From here forward, my role is to oversee the project as a class assignment. Thus questions such as “When is it due?”, “What is a user study?”, and alike should be directed to me. Questions regarding the underlying problem and its solution should be directed to a duly appointed representative of *Eastman Art Inc.* (If you ask such a question of me and are fool enough to listen to the answer, do bear in mind that it is likely wrong and that only officials from *Eastman Art Inc.* are permitted to make binding decisions.)

The Problem

[The following is *not* from *Eastman Art Inc.* and thus may not reflect the client’s goals or understanding.]

The project has two main parts: a cell editor and a wing editor. Initial cells (and thus wings) will be rectangular, but that will not last! Here is an example that also illustrates that all wings have a main cell.



Each cell includes hormone sources and sinks. Hormones move from the sources to the sinks. The color of a region is determined by the hormone level present in that region.

The Assignment

Work your way through the SE process chatting with your client, Dr. Eastman, as necessary.

What to hand in (typed)

<u>Task</u>	<u>Target Completion Date</u>
Project plan	3/18
Requirements	3/21
User study	3/25
Analysis	3/29
Design	4/2
Test plan	4/4
Code (2up please)	4/10
Test output	4/15
Group meetings notes (elect a scribe)	
COCOMO II effort predictions for each step	each Monday

Notes

- (1) You will work in groups of four, so start planning meeting times and deciding who will take the lead on which tasks.