The Home Stret ch

The Plan

- * Review of the Design
- *** The Last 10%**
- Freezing the Project
- Ensuring Success
- Cutting your losses
- Testing
- * Documentation
- Enhancements

Review of the Design

- Late for Serious Changes
 - **■** May be some course correction possible.
- Often: Simplification rather than enhancement
 - **□** Shed some frills.
 - **□** Narrow down some of the goals.
- When Adding Things: Must be Orthogonal!
 - □ Orthogonal:Will *not* adversely affect other parts.
 - **□** Don't risk project for that "just one more".

The Last 10%

- * You may think you're almost done
- ***** Common wisdom is:

The last 10% of a project takes up 90% of the time.

- Allow for the unexpected
- Prevent serious problems by testing as you go
- Don't put off fixing a problem to go to another enhancement

Freezing the Project

- * Earlier rather than later, quit adding features
- * Make sure what you have is done right
- Allow for the unexpected
- * Resist the *lure of enhancements*
- Spend any extra time to make product more professional

Ensuring Success

- * Always have a working project
 - After some natural increment (with everything so far working) save a complete copy (project).
 - □ Think of it as a simpler version.
 - Don't lose or change this copy.
- Start the next version
 - □ After significant progress, *repeat* this process.
- * Too often, a formerly working project is "destroyed" by improvements
 - ☐ It may never work again.
 - □ You must have a previous version to *fall back* on .

Cutting your Losses

- **Sometimes:** Nothing Seems to Work
- * Before it's too late:
 - **□** Severely *Prune* your goals.
 - **□** Get help from instructors for this.

A Simple Working Project
ALWAYS RATES HIGHER

than a Fancy Non-Working Project

Testing

- "Testing can prove the presence of bugs, but not the absence of bugs."
- * Games: different standard from most software
 - Bugs sometimes become features.
- Errors can be costly, however
 - **□** When demo-ing for your grade!
 - **□** When showing off for your date.
- * Test Plan
- * Testing by a naïve user

Documentation

- Javadocs provide imbedded documentation
- Traditional
 - **□** User manual.
 - **□** Technical/Program Logic Manual (for heirs).
- On-line documentation
- Legal / for Grade
 - □ Make clear *who* did *what* work and *when*.

Enhancements

- * If you have time ...
 - **■** Make sure you have polished main parts.
 - Make sure you do not risk previous work.
- * Enhancements can be a lot of fun
 - □ They might add that extra sparkle.
- The pressure is off
 - □ Little cost: if it doesn't work, back it out