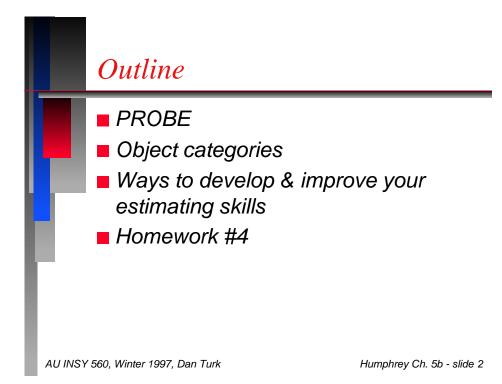
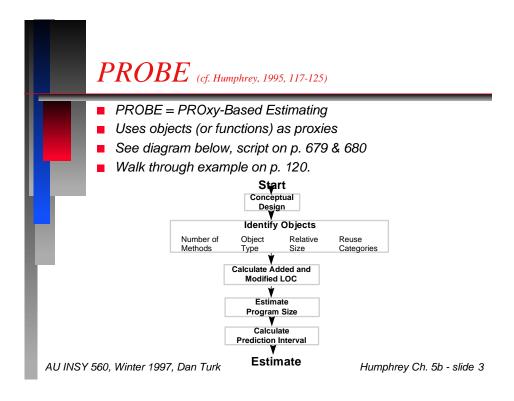


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Object Categories (cf. Humphrey, 1995, 125-134) In order to yield the most useful information, your historical database must eventually be categorized according to type and size of object.

- Use basic "fuzzy-logic" approach and create categories and size ranges based on assumed normally distributed sizes.
- Note that s² and s should be calculated with n-1 rather than n as is done in the example (n<30).</p>
- Natural log (In) can be used to create normallydistributed LOC data from which LOC category ranges can be more effectively calculated.
- Walk through example on p. 126-134. Note incorrect calculations.

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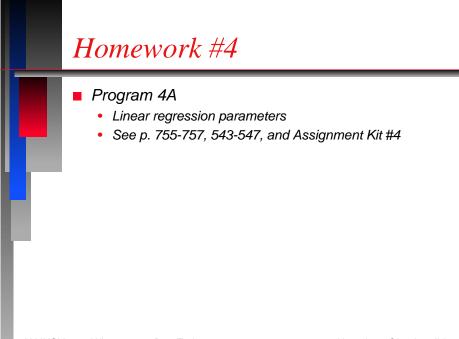
Ways to Develop & Improve Your Estimating Skills

(cf. Humphrey, 1995, p. 134-141)

- Estimate many small pieces and sum them to get a total estimate the sum of the variances is probably smaller than the variance of a single large estimate.
- Over time your \mathbf{b}_0 and \mathbf{b}_1 values will stabilize. Then you do not need to recalculate them every time you do an estimate.
- If \mathbf{b}_0 and \mathbf{b}_1 appear to be unreasonable (\mathbf{b}_0 larger than the smallest code sizes and \mathbf{b}_1 significantly larger or smaller than 1.0) then recheck your calculations, and you may need to use historical averages instead of the **b**-weights. A ratio based on averages can be calculated from the proportion of estimated object LOC to the estimated total new & changed LOC.
- Until you have sufficient data (> 2 estimated programs), you will need to calculate the b's from actual program data and make estimates based on averages of the actual program data as described above.
- Make revised estimates (in large projects) at various phases when you have additional information.
- Don't try to correct estimating errors every time statisitical variation is natural and OK. Relying on historical data will eventually help correct errors as this database goes larger over time.

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