





- Approach creation of a class as a design problem
  - Meaningful behavior => methods [& attributes]
     ADT methodology
  - What's private and hidden? vs What's public?
- Design for inheritance
  - Clean general case as foundation for specialized subclasses
- Use it to streamline development
- Anticipate exceptional cases and unforeseen problems
  - try ... catch
  - raise / assert

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## **Exception (read 3.3)**

- Mechanism in a programming language to declare and respond to "exceptional conditions"
   – enable non-local cntinuations of control
- Often used to handle error conditions - Unhandled exceptions will cause python to halt and print a stack trace

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- You already saw a non-error exception end of iterator
  Exceptions can be handled by the program
- instead
- assert, try, except, raise statements
- Exceptions are objects!
  - They have classes with constructors



 Control jumps to the except suite of the most recent try that handles the exception









- map
- range
- zip
- · These objects are not sequences.
- If we want to see all of the elements at once, we need to explicitly call list() or tuple() on them





(I)









