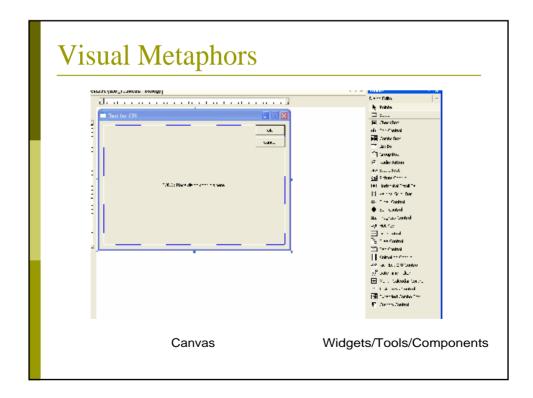
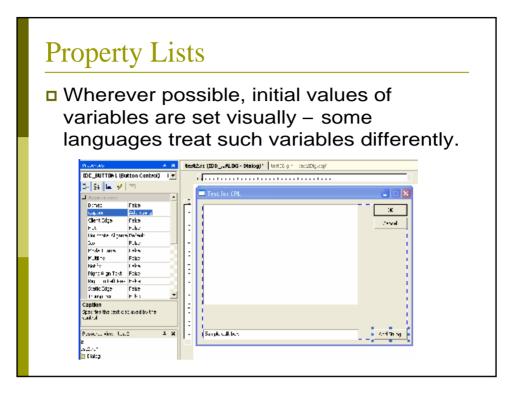
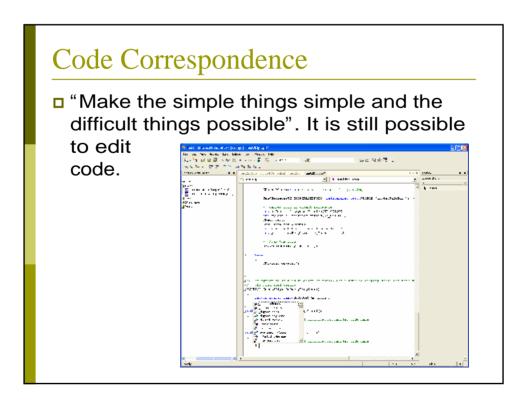
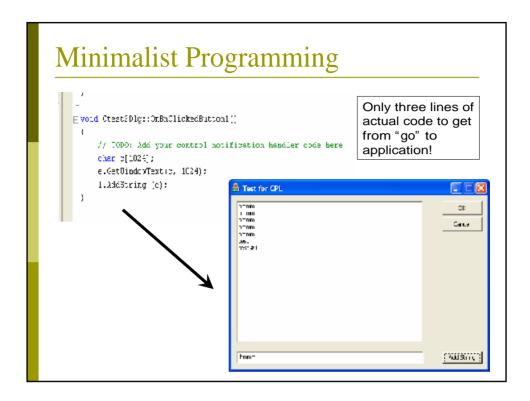


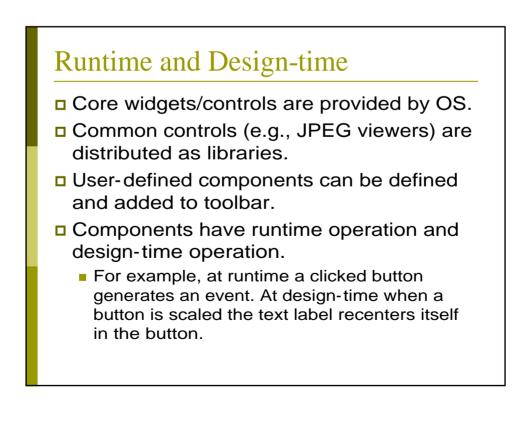
Code generation	
Use visual controls to present options and generate code based on those.	
NEC Application Wizard - test2	
Server are sted dasse and s	toec Ty base classes for your epo ket on.
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Issues?

- How do you define non-visual parts of the program?
- Is it possible to link together non-visual components in the same way as visual components?
- Can components be language independent? (Builder v1.0 came with both a Pascal and C++ compiler to accomplish this)



- You wrote 300 lines of code in C for a "Hello World" program.
- Your application had to use code to manually create type definitions and instances of each widget.
- Your application had to do explicit cooperative synchronisation with other applications.
- □ Thankfully, those days are gone ☺

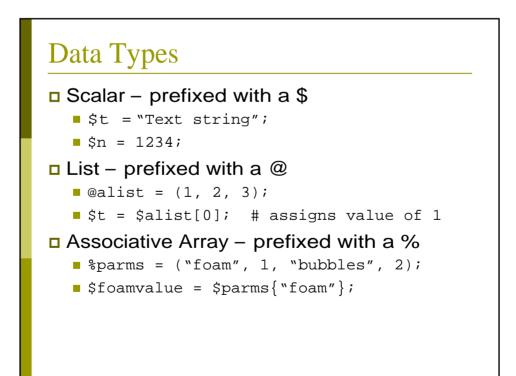
Scripting Languages: Introduction to Perl

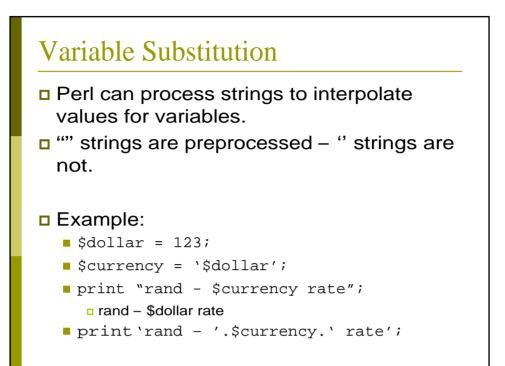
Perl as Scripting Language

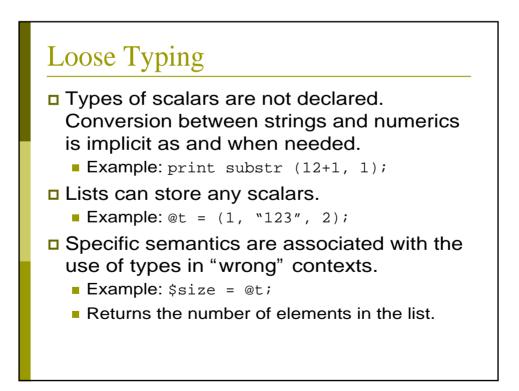
- Scripts are usually thought of as "glue" that connects real applications together.
- Scripting languages are sometimes highly specialised (e.g., BASH) or sometimes very general (e.g., Perl).
- Most scripting languages are interpreted, therefore very flexible but not fast.
- Perl is one of the most popular scripting languages because it can be quick-anddirty.

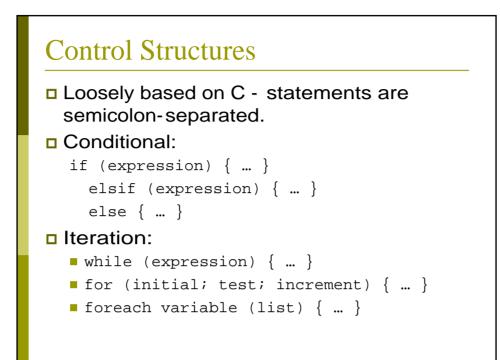
Simple Example

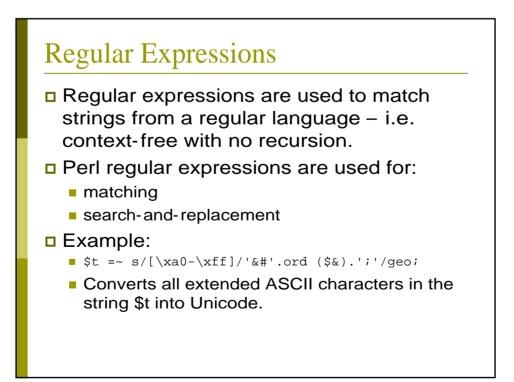
```
print "Checking chat directory\n";
# get listing of all files
opendir (DIR, "$d/chat");
@files=readdir (DIR);
closedir (DIR);
# iterate throughlist
foreach (@files)
{
    # build filename and get information
   $filename="$d/chat/$ ";
   @info=stat ($filename);
    # check age and move file if it has expired
   $daysold=(-M $filename);
   if ($daysold > $maxdaysgame )
    {
       system "mv $filename $d/delgame";
print "moving ... $_ [$daysold]\n";
   }
}
```

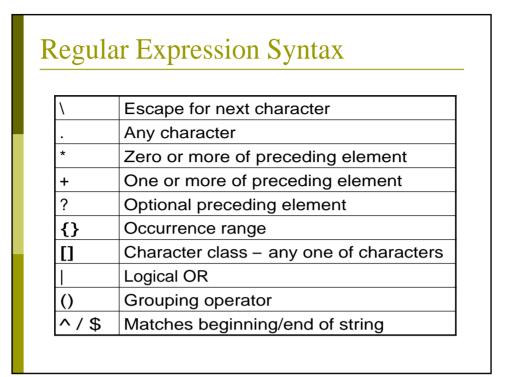


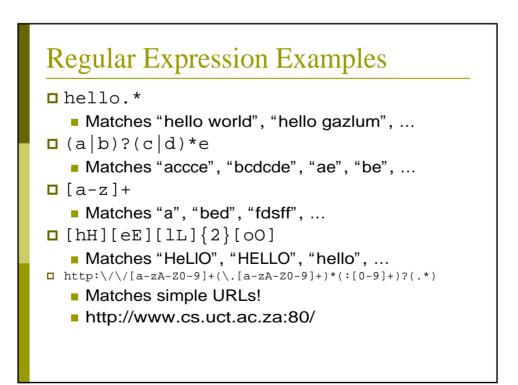


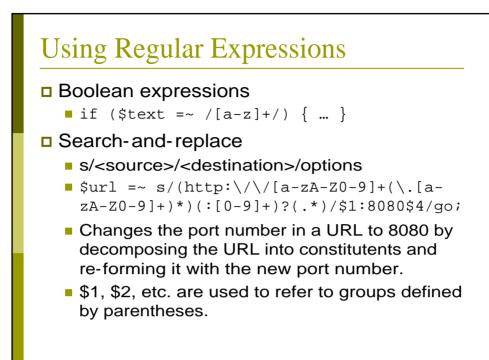


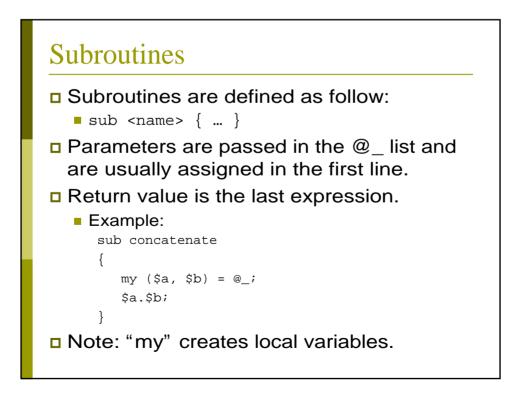


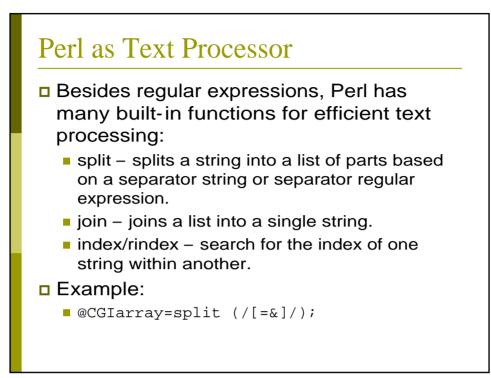


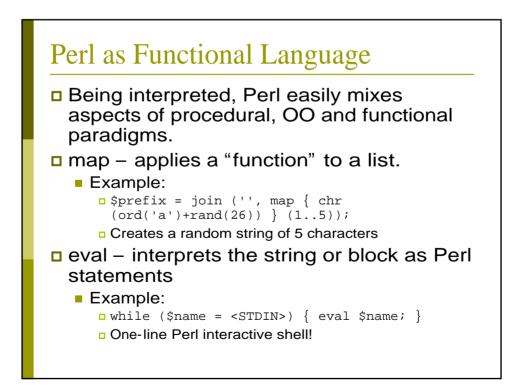


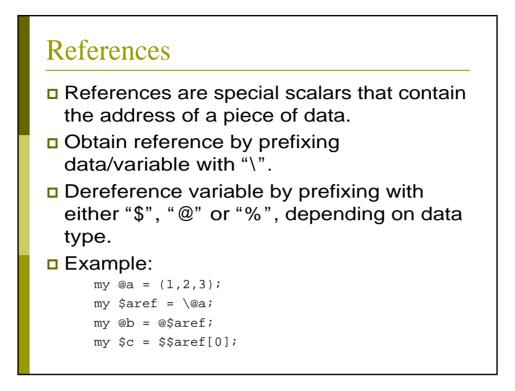


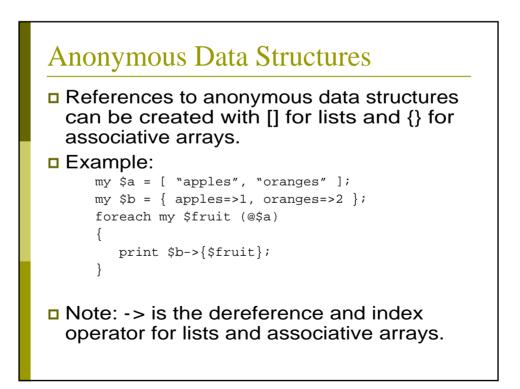


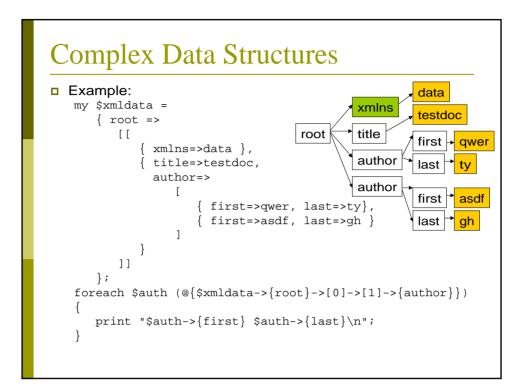


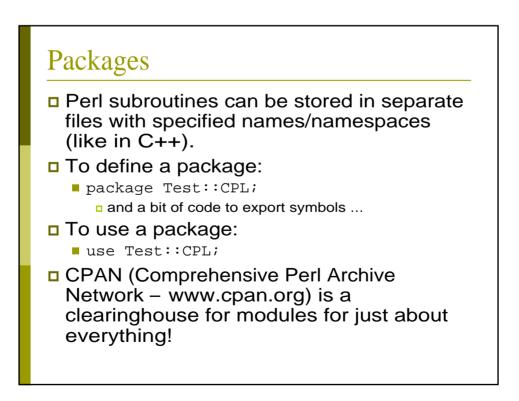












O-O Perl

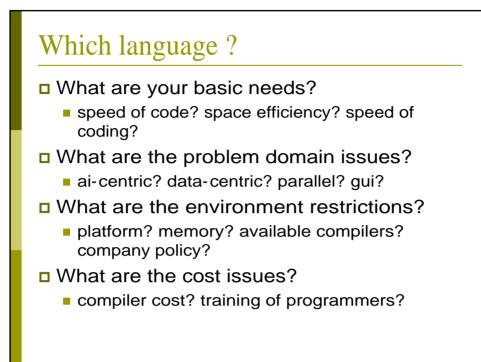
Packages can be further abstracted to correspond to classes, similar to Java.

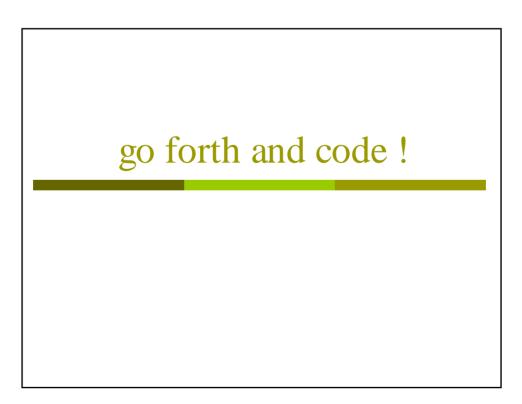
- Perl includes support for
 - class/instance methods,
 - information hiding,
 - constructors and destructors,
 - multiple inheritance,
 - method overloading,
 - polymorphism.

Most reusable code in Perl is now OO.

Evaluation

- Good for rapid prototyping and glue.
- Easy to write complex code difficult to understand and maintain unless programmers are disciplined.
- Lots of features but not very efficient because of it is interpreted.
- Can be used for procedural, objectoriented, functional, visual (Glade) and maybe even declarative (Perlv6) programming – the kitchen sink solution!





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