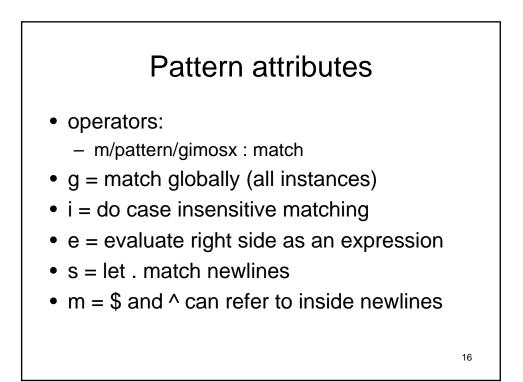


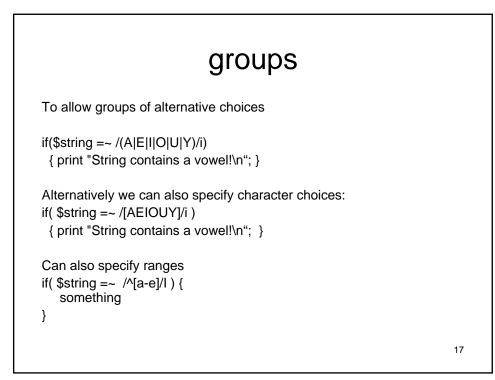
Basic II

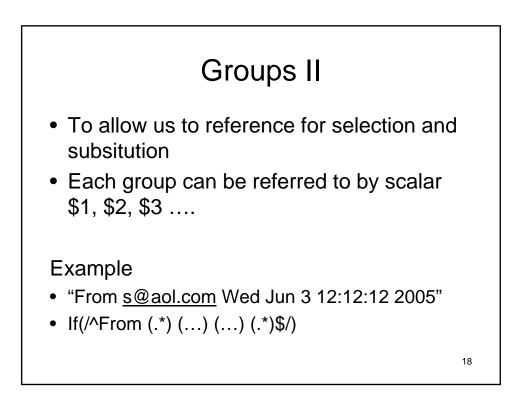
- 1. if (\$a =~ /s|h|m/) {....}
- 2. if (\$a =~ /[a-z]/) {...}
- 3. How would we look for a phone number?

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4. What about a social security?







shortcuts

\$name = "advanced programming class"

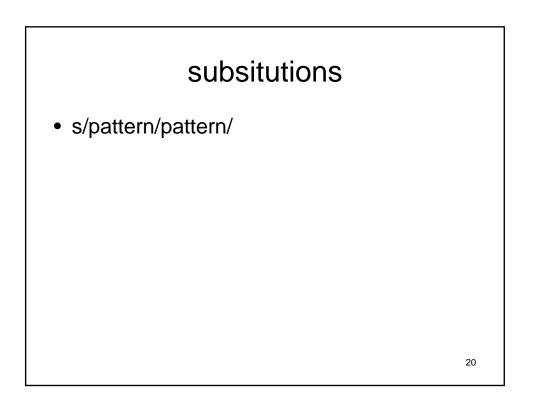
if(\$name =~ /programming/){

print \$`;

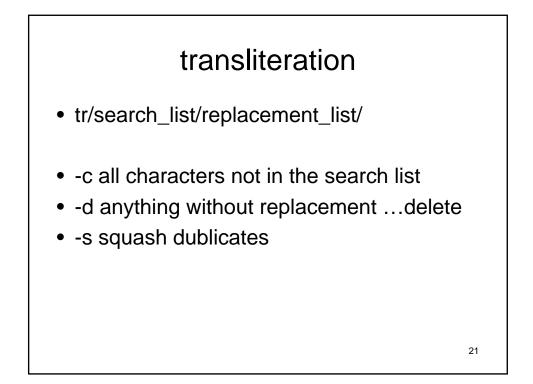
print \$&;

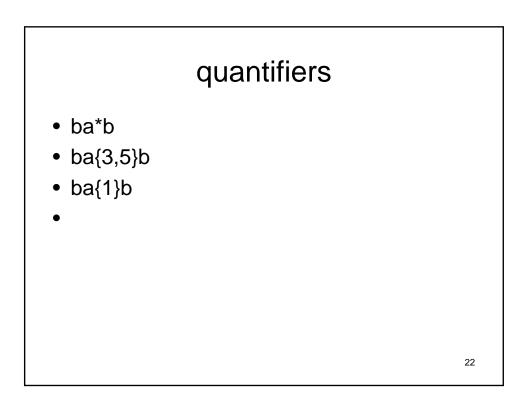
print \$';

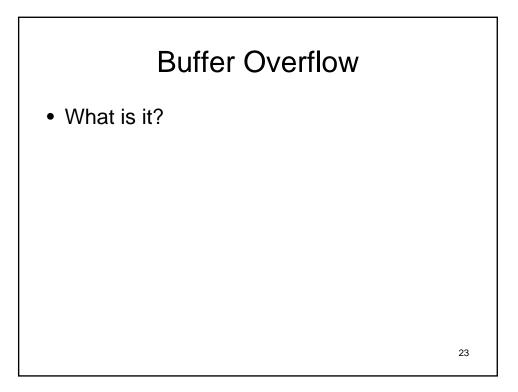
}

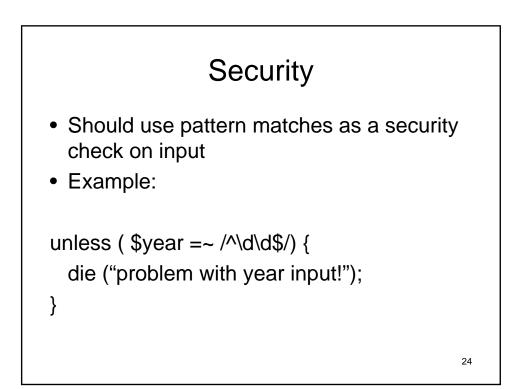


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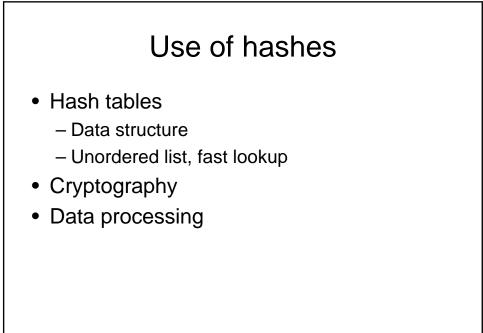




hashes

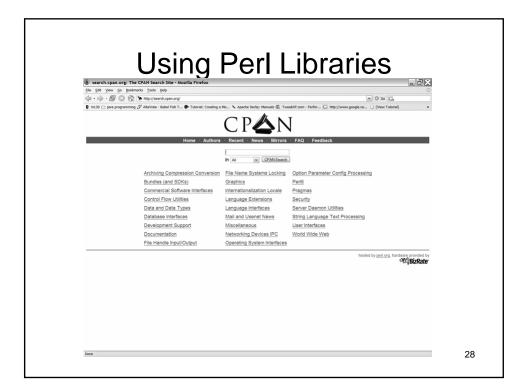
- A hash function is a function that converts an input from a (typically) large domain into an output in a (typically) smaller range
- Example:
 - Map each name in the class to a somewhat unique number
- Collision = when different keys map to the same output.



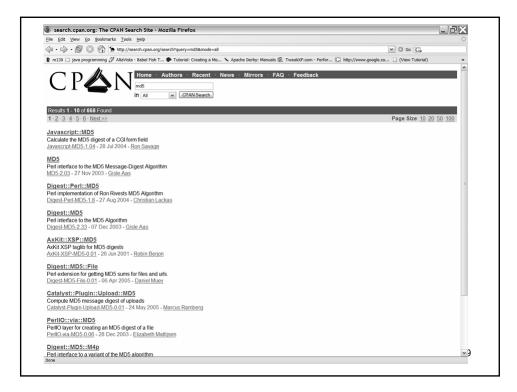


MD5 Sum

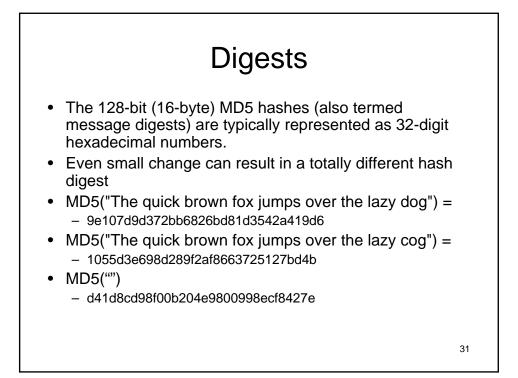
- MD5 uses a 128 bit hash value
- Designed in 1991
- Known problems with collision attacks
- http://www.ietf.org/rfc/rfc1321.txt
- http://en.wikipedia.org/wiki/MD5

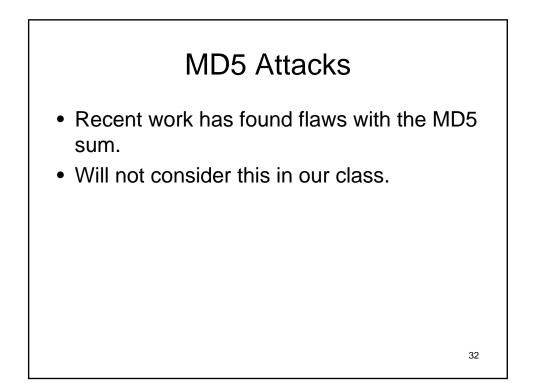


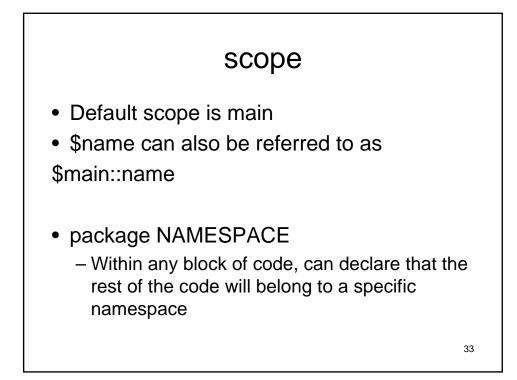
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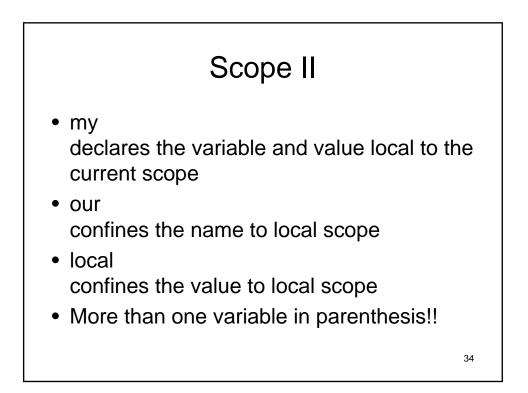


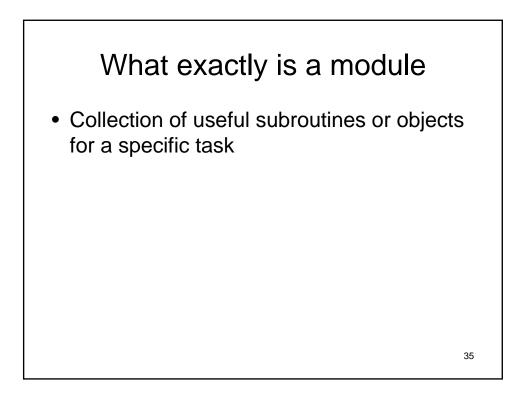


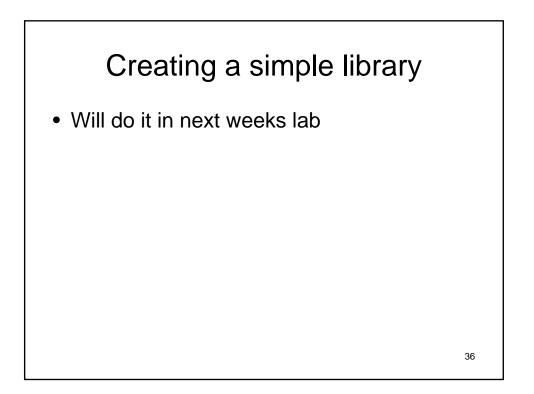


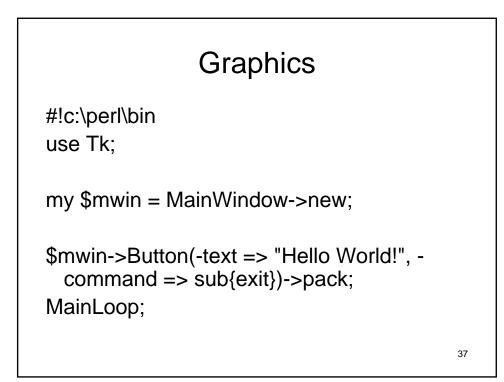


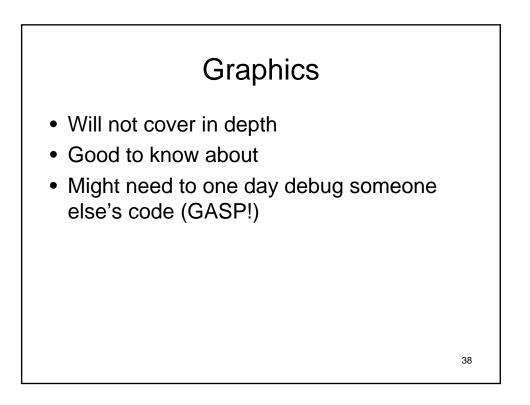












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