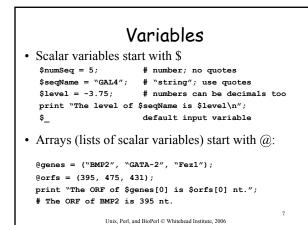


Why Perl?

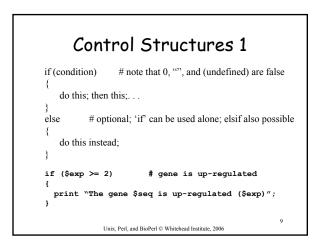
A first Perl program • Create this program and call it hey.pl #!/usr/local/bin/perl -w # The Perl "Hey" program print "What is your name? "; chomp (\$name = <STDIN>); print "Hey, \$name, welcome to the Bioinformatics course. \n"; • To run: perl hey.pl or

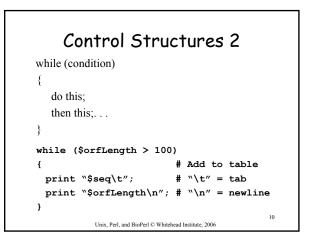
• To run: chmod +x hey.pl ./hey.pl

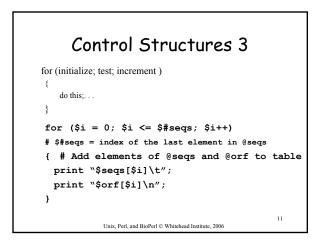
Unix, Perl, and BioPerl © Whitehead Institute, 2006

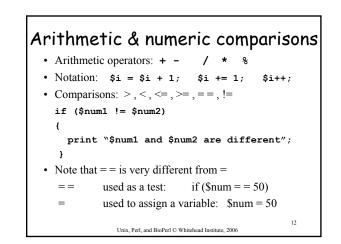


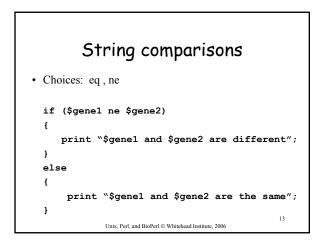
| Perl functions - a sample | | | | |
|---|---------|----------|-------|--------|
| print | tr/// | closedir | open | m// |
| chomp | mkdir | split | close | die |
| length | chdir | join | chmod | rename |
| substr | opendir | pop | uc | use |
| s/// | readdir | push | lc | sort |
| Unix, Perl, and BioPerl © Whitehead Institute, 2006 | | | | 8 |

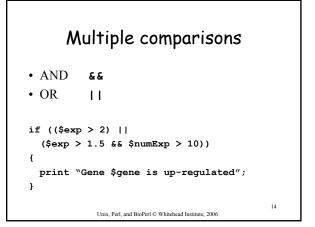


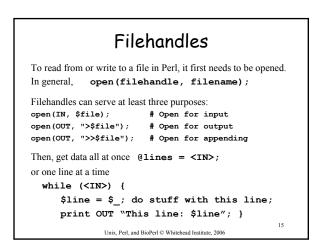


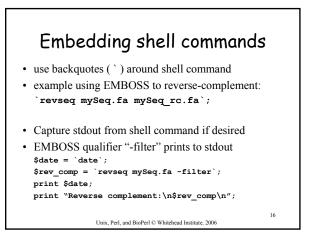


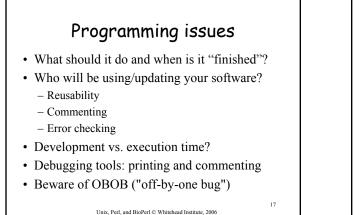


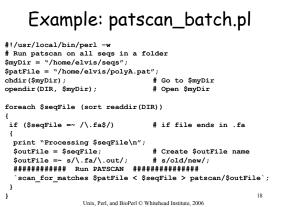


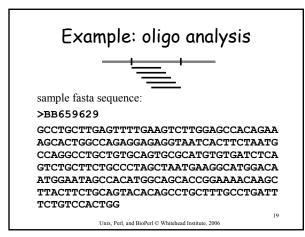




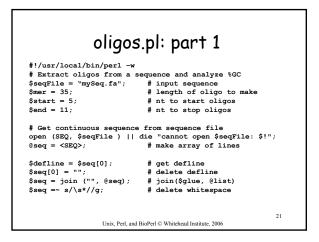


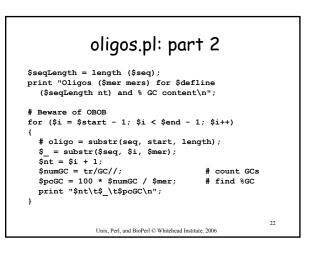


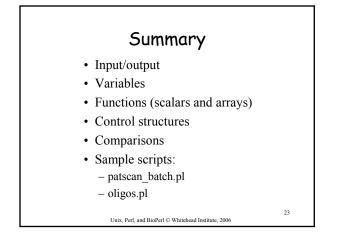




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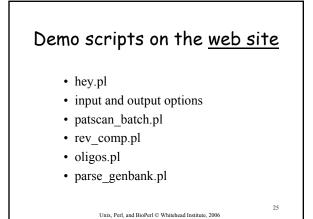




For more information, books:

- · Learning Perl (Schwartz et al.) O'Reilly
- · The Perl CD Bookshelf O'Reilly
- · Beginning Perl for Bioinformatics Tisdall
- 'Using Perl to Facilitate Biological Analysis' (Stein) in *Bioinformatics* (Baxevanis & Ouellette)
- 'Bioinformatics Programming using Perl and Perl Modules' in Bioinformatics: Sequence and Genome Analysis, 2nd ed. (Mount)

AND several good web sites (see course page)



Exercises

- Retrieving and aligning a list of humanmouse orthologs
- Retrieving a set of genes encoding growth factors, extracting their proximal promoters, and analyzing them.

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