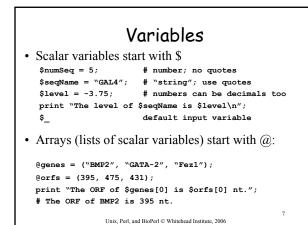


Why Perl?

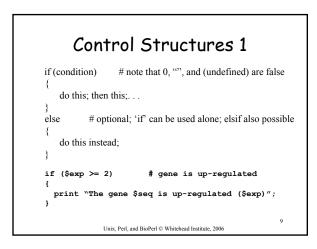
A first Perl program • Create this program and call it hey.pl #!/usr/local/bin/perl -w # The Perl "Hey" program print "What is your name? "; chomp (\$name = <STDIN>); print "Hey, \$name, welcome to the Bioinformatics course. \n"; • To run: perl hey.pl or

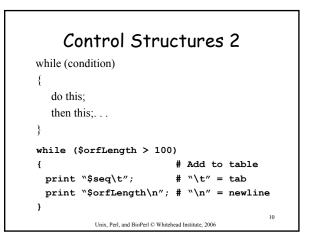
• To run: chmod +x hey.pl ./hey.pl

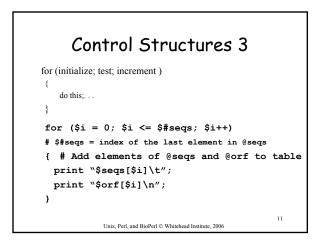
Unix, Perl, and BioPerl © Whitehead Institute, 2006

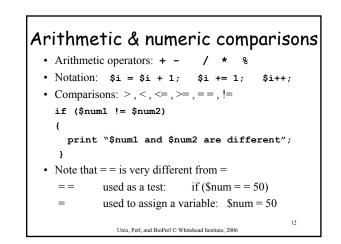


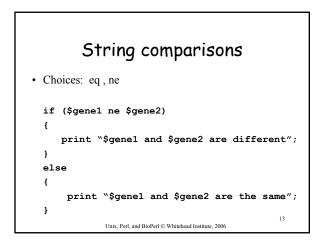
Perl functions - a sample				
print	tr///	closedir	open	m//
chomp	mkdir	split	close	die
length	chdir	join	chmod	rename
substr	opendir	pop	uc	use
s///	readdir	push	lc	sort
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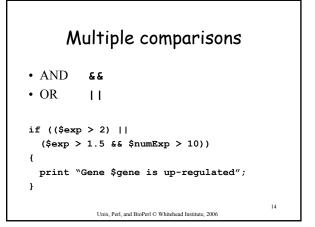


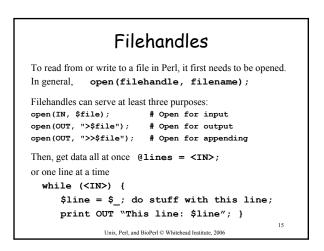


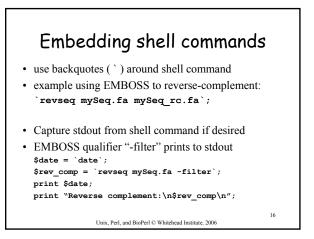


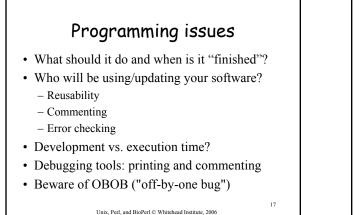




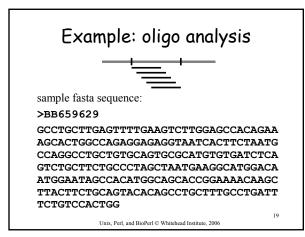




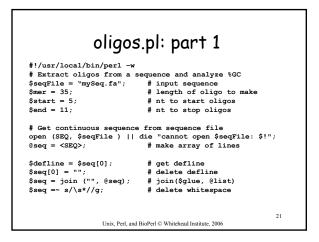


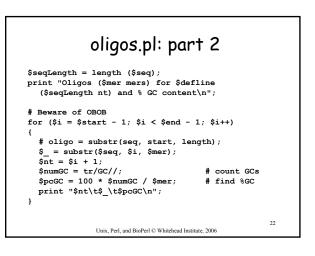


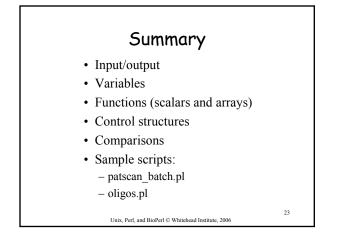




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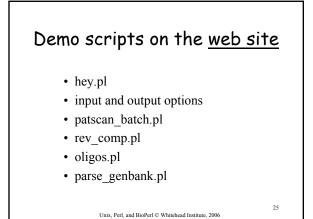




## For more information, books:

- · 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, 2<sup>nd</sup> 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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