

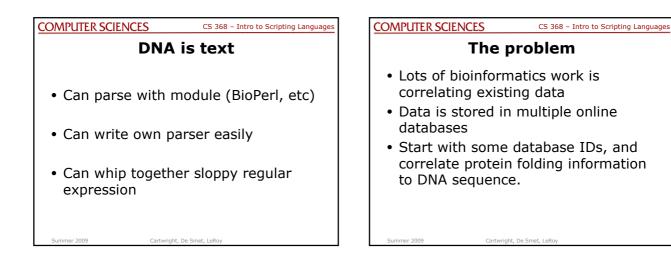
# COMPUTER SCIENCES CS 368 - Intro to Scripting Languages Perl has strong bioinformatics support

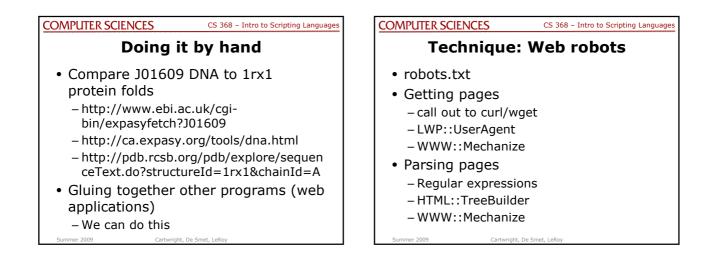
- BioPerl modules
- Books:
  - Beginning Perl for Bioinformatics
  - Mastering Perl for Bioinformatics

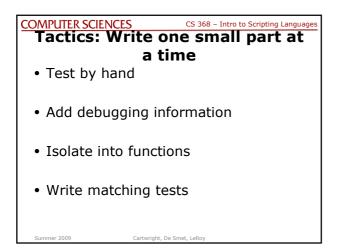
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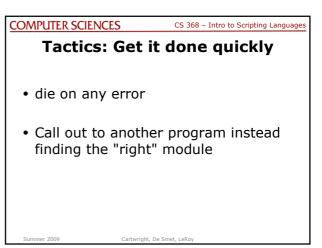
### DNA is text

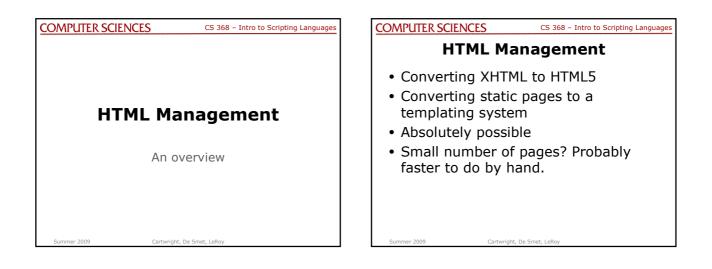
- Researchers decided to keep everything as text
- DNA:
  - gtcgaccacttagtcta
- Amino Acids:
  - VDHYIRLRQAGVEKPER
- Data files are formatted text (example)

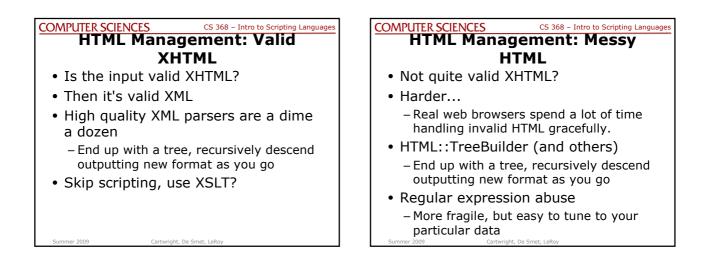


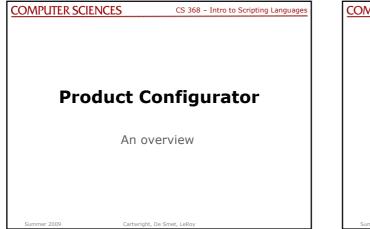


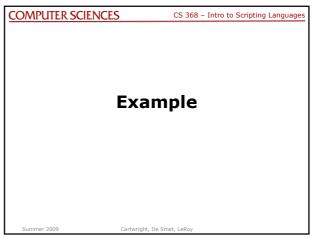








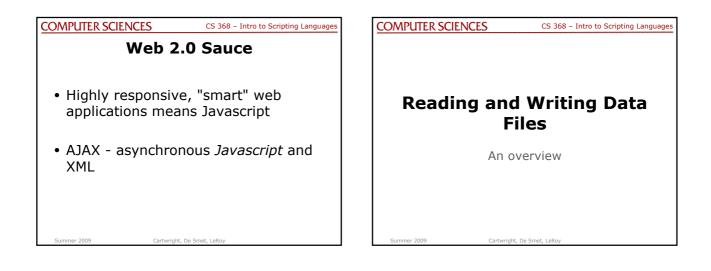




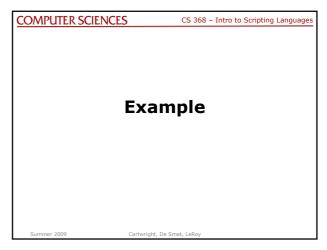
		-		
COMPUTER SCIENCES	CS 368 – Intro to Scripting Languages		COMPUTER SCI	ENCES
Database support				Web a
a database – relational model / – A well designed da scalable, and robu	atabase is fast,		<ul> <li>Low lev</li> <li>Medium</li> <li>High lev</li> </ul>	level:
Perl's DBI module     - Speaks to Oracle,     MySQL, PostgreSC	Sybase, ODBI,		Rails	er. May
Summer 2009 Cartwright, D	De Smet, LeRoy		Summer 2009	Cartwi

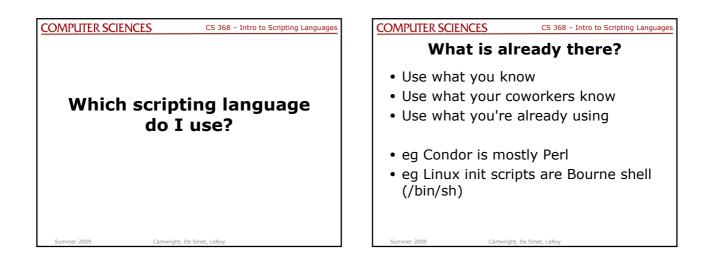


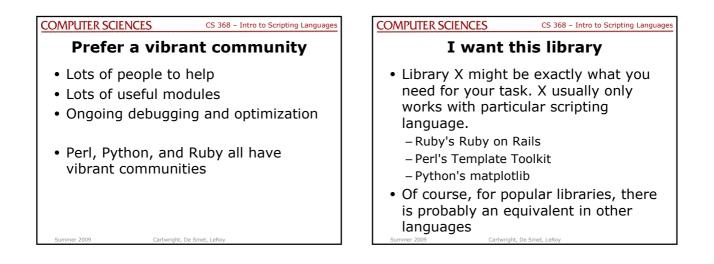
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Reading and W	riting Data Files
<ul> <li>Good use for a main – Reusable</li> </ul>	odule
<ul> <li>Good use for an on – Clear organization</li> </ul>	
• Does a module al	ready exist?





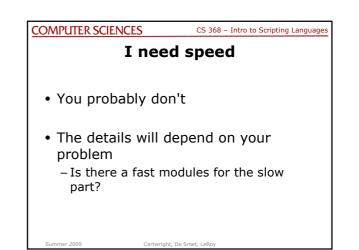


### COMPUTER SCIENCES

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# I need portability

- Unix-like systems:
  - Bourne Shell (/bin/sh)
  - Perl
  - Python
  - A touch of Ruby





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Feedback	
• What worked?	
What to change?	
• What to add?	Evaluations
What to cover?	
Summer 2009 Cartwright, De Smet, LeRoy	Summer 2009 Cartwright, De Smet, LeRoy