What is computer science?

Steven Salzberg



The science of computing computer algorithms programming languages computer hardware

Theory
white earn
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Computer Science

Systems

sty dy al comp uter

soft work

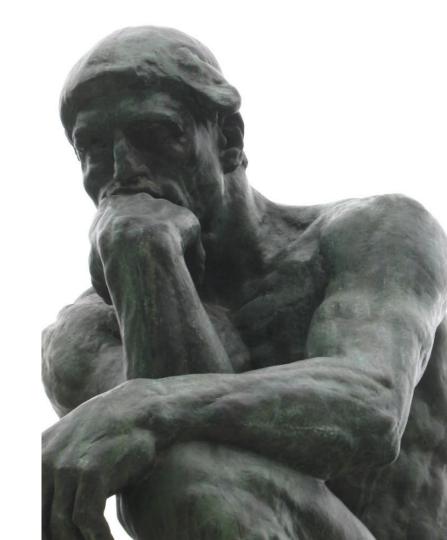
+ wink

Applications

What do computer scientists do?

Thinking computationally

Livede into tasks. think carefolly.





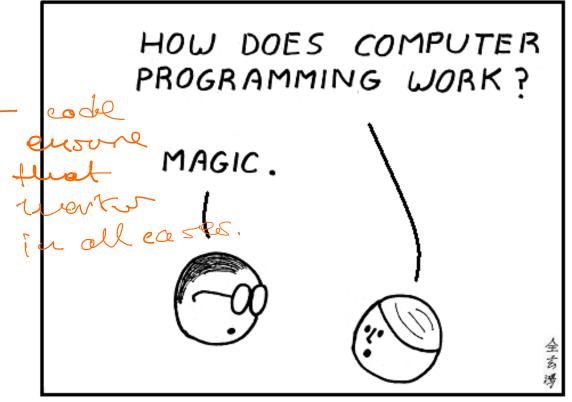
UNIX (operating system)

Programming: how we talk to computers

Physon - no like neutrol language. fell the computier wheat to 20. while (<genefile>) { chomp; if $(/^>/)$ { # header line else { (\$seq) = split(" "); \$total length += length(\$seq); for (\$i=0; \$i<length(\$seq); \$i++) { \$next = substr(\$seq,\$i,1); if (\$next eq 'g' || \$next eq 'G') { \$g_ct++; } if (\$next eq 'c' || \$next eq 'C') { \$c ct++; } if (\$next eq 'a' || \$next eq 'A') { \$a ct++; }

if (\$next eq 't' || \$next eq 'T') { \$t ct++; }

Engineering:



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Devices

hærier directly

