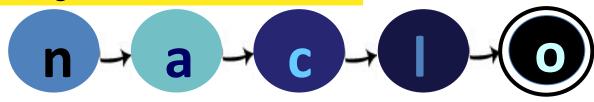
Web: http://www.naclo.cs.cmu.edu

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North American Computational Linguistics Olympiad

What is NACLO?

A contest in which high school students learn about linguistics and language technologies by solving puzzles



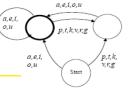
The following are inscriptions in hieroglyphic *Luvian*, an ancient Anatolian language related to (and once thought to be) Hittite. These writings were totally incomprehensible until one scholar discovered the key: many of the words were names of regions, cities, and kings.



Above are six inscriptions that correspond to the names of two regions (Kham Tuvarnava), and two kings (Varpalava, Tarkumuva). Your job is to match each inscription with the name that it represents. The process you use to solve this puzzle is very similar to what archeological linguists actually do when they discover writings and inscriptions in unknown languages.

Original problem by A. N. Zhurinskj. English adaptation by Valentin Vydrin.

Here is a finite state automaton that can distinguish between possible and impossible words in Rotokas, a language spoken on the island of Bougainville off the coast of New Guinea. Rotokas has a very simple system of sounds and allows us to create a very small FSA.



What is linguistics?

what kinds of sounds do they have? What kinds of syllables? What kinds of grammar? How do children learn languages? Why is it so much harder for adults to learn languages? Why are there dialects?

Linguists study human language in general -

How do students benefit?

NACLO helps students identify potential careers related to languages and language technologies and helps them learn about subjects they may want to study in college. They also exercise problem solving skills and have fun.



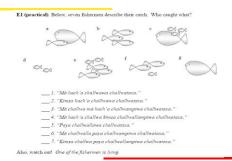
What is computational linguistics?

Computational linguistics is the science behind language technologies. You use language technologies when you speak to an automated telephone system, or to your car or phone; when you ask a computer to translate something for you; and every time you do a search in a Web browser.

Timeline

Registration is now open: http://www.naclo.cs.cmu.edu

NACLO is free and open to all students under 20 years old who do not yet have a high school diploma.



Open Round: January 31, 2013

About 1500 students will compete in the US and Canada.

In the Pittsburgh area. vou can compete at vour school or at Carnegie Mellon University.

Invitational Round: March. 2013

100 students will be selected to compete.

Training: April – June, 2013

20 students will be selected for Skype-based training sessions.

International Linguistics Olympiad: July, 2013, Manchester, UK

8 students will represent the US

Who sponsors NACLO?



National Science Foundation









