



## CWSF 2007 - Truro, Nova Scotia



## **David Williams-King**

**Developing Codeform: A Syntax Highlighter** 

**Division:** Earth & Environmental Sciences / None

Category: Senior

Region: Calgary Youth
City: Bragg Creek, AB

School:

Abstract: This project created, published, and evaluated codeform, a syntax

highlighter. Written in C, codeform has many features including no memory leaks. Codeform has unique clipboard extensions and an online version. Users of codeform have provided feedback, and codeform is even being integrated into a forum. The evaluation tests showed that codeform is more syntactically correct, efficient, and flexible (though less mature) than other

syntax highlighters.

## **Biography**

I am always programming computers; I enjoy astronomical topics; and I read voraciously. I am the unofficial leader of a local computer programming club. I also attend meetings of the Royal Astronomical Society of Canada's Youth Group, and a math/logic group at the University of Calgary. I have written the Waterloo Canadian Computing Competition twice and made the honour roll each time. I have taken two third-level computer programming courses at Athabasca University, COMP307 (C and C++) and COMP308 (Java), achieving an A+ for each. I have entered the Calgary Youth Science Fair twice; both times I won a gold medal and this time I also won the Alberta Research Council Award. I maintain my own website at http://dwks.theprogrammingsite.com/ and I help manage the other sections of the same website. I also very frequently post on a major programming message board, CBoard (http://cboard.cprogramming.com/), where I am eleventh for number of posts and recently ran for moderatorship. I have played the violin for seven years. I also enjoy sports, and currently participate in badminton and soccer. In the winter I frequently go downhill skiing, and skate and play hockey on our lake.

Awards	Value
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Computing & Information Technology - Senior	\$300
Sponsor: Intel of Canada, Ltd.	
Total	\$1 300



