

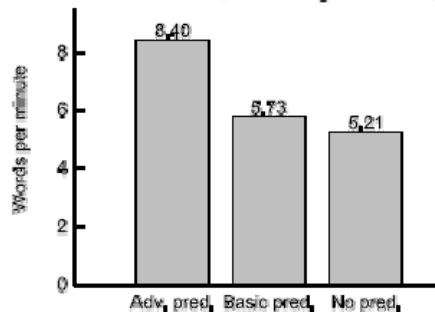
## Vision of Goals

- Improve text entry rate with word prediction.
- Provide an OS-independent & mobile API.
- Build confidence for people with disabilities to pursue careers in computing fields.

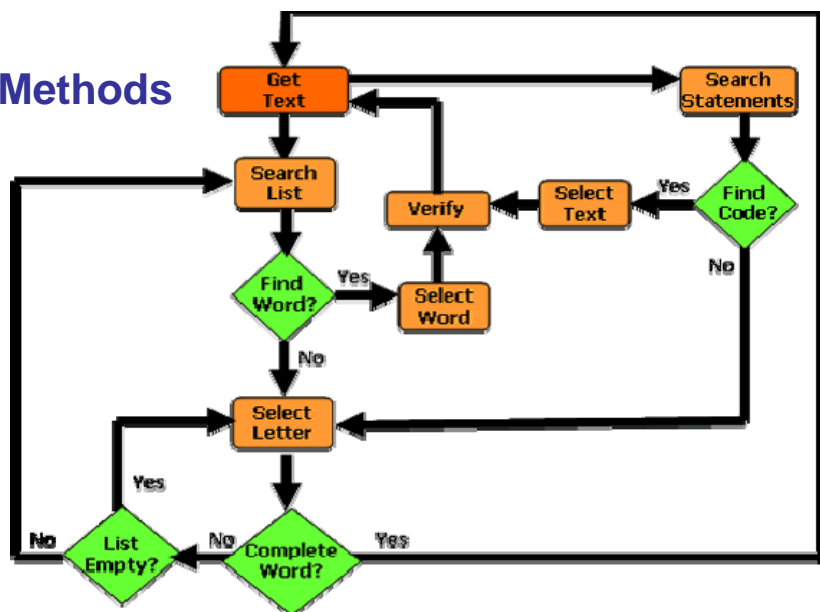
## Previous Work

1. Semantic and Syntactical Association
2. N-gram model
3. Recency of Words

Communication rate (in words per minute) by entry method.

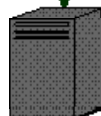


## Methods



## System Design

Client Internet Browser



Apache Web Server



JDBC Driver



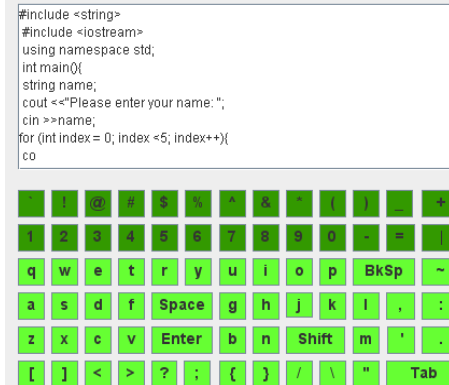
MySQL Database Server



Database Dictionary

## Implementation

Enter Your Code



Control Statements

IF	WHILE
FOR	IF-ELSE
SWITCH	CASE
DO-WHILE	BREAK

```

const
const_cast
continue
cout<<
operator
  
```

LINK: <http://www.csee.umbc.edu/~kavi1/cs601/build/cs601.html>

## Preliminary Results

- Four participants typed 180 characters of C++ code in about 5 minutes

## Future

- Interface layout
- Inline Prediction
- Runs in the Background
- Individual User Accounts
- Customization of Dictionary

## References

1. I Sanders and C-L Tsai. Word Prediction Strategies in Program Editing Environments. SACJ, (20):18-24, December 1997.
2. Ian Sanders, Ian S, and Andrew Russell. Using syntax to improve word prediction in a programming environment, 2004.
3. Jianhua Li and Graeme Hirst. Semantic knowledge in word completion. In Assets '05: Proceedings of the 7th international ACM SIGACCESS conference on Computers and accessibility, pages 121-128, 2005. ACM.