VBA Workshop

Sponsored by: WiCS

- Spreadsheet
- Add/Delete columns and rows
- Basic computation
- Generate charts and graphs
- Autofill
- …

- Games!
  - e.g. 2048
- **Customized by VBA!!!**

What is VBA?

- Visual Basic for Applications
  - a programing language developed by Microsoft.
  - occasionally called a MACRO language.
    - Something that is written in VBA and executed in Excel
    - Also available in additional Microsoft Office programs
    - Generation
      - Macro recorder
      - Programming with VBA

Example Macro

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2		January	February	March	April	June	July	August	September	October	November	December
3	Warehouse 1	9194	2052	9265	7492	2077	653	2374	2795	1533	3877	6435
4	Warehouse 2	9992	4044	4253	6662	4746	7740	4760	2717	5177	5976	8063
5	Warehouse 3	3840	5999	8211	9152	9729	2869	7309	1839	9549	1721	8888
6	Warehouse 4	8452	6231	543	8502	5490	6287	4711	6511	2466	9534	2109
7	Warehouse 5	6729	6666	4941	3877	2872	4070	3974	6651	7485	4941	4380
8	Warehouse 6	4853	7462	7705	3153	2136	1896	8468	5978	6073	257	1042
9	Warehouse 7	6942	7406	1494	3896	5993	5971	5217	567	2896	8278	3856
10	Warehouse 8	6846	9729	779	4030	3063	2448	4253	7527	7041	9353	1347
11	Warehouse 9	8726	3932	8656	9637	3224	9981	2186	2055	6201	8914	6267
12	Warehouse 10	7123	2218	4707	5134	423	7192	183	9887	9489	8770	3604
13												
14												
15												
16												

Sheet1

How is VBA Useful?

- Significant time savings
- Automate rote/repetitive
  - tasks, processes, operations, reports...
- Customize
  - commands, buttons, shortcuts, functions...
- Allows unified presentation of results
- ...

Code Search Study

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Search?

What we wish to learn?

- The types of problems that programmers want to solve using web search

- How often programmers search for programming-related information via web browsers

- What programming-related online sources are accessed.

This extension will...

- Record your search and browse history
- Deploy surveys when you
  - install the extension
  - make a Google search in the Google Chrome browser
  - reformulate a query
  - close the search tab

- **All data being collected is ANONYMOUS!!!**

As a participant, you...

- Use **Google Chrome** all the time during the study

- Install a Google Chrome extension named **Chrome Code Search**

- Complete VBA programming tasks with the **extension enabled** the entire time during the study

- A formal consent form will be displayed electronically before installation starts.

- Complete **each one of the** deployed surveys

Participation is...

Any Compensation?

Yesssss!!!

45 minutes!!!

=> A chance to win **$30** Amazon gift card!!!

Question?

- VBA workshop:
  https://github.ncsu.edu/rbai2/VBAworkshop

- Chrome Code Search extension:
  https://github.ncsu.edu/rbai2/ChromeCodeSearch