



Concordia University

# Engineering and Computer Science

## Assignment 2 Goals and Questions

***SOEN 6611: Software Measurement***  
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### How does controlling memory usage affect the overall performance on Google Chrome?

Direct Measures	
1	Number of defects related to high memory usage thus measuring amount of memory used up.
2	No of issues related to web page rendering in chrome.
Confounds Controlling Measures	
1. Ensure proper memory management. 2. Providing a well-developed API to ensure better page rendering.	
Hypothesis to be tested:	
Controlling the memory consumption of Google Chrome will lead to crash free run period and hence a better performance.	
Measure of quality outcome:	
Smooth running of Google Chrome (Crash free environment)	

### Is browsing safe and secure in Google Chrome?

Direct Measures	
1	Number of user interface security issues (viruses/ malicious code) reported
2	Number of downloaded malicious software.
3	Number of bugs reported related to privacy.
Confounds Controlling Measures	
1. Developer level of experience. 2. Issues severity. The more experienced the developer is, the higher the rate of severity issues being fixed thus it will help control the confound.	
Hypothesis to be tested:	
Blocking malicious software (code/scripts/extensions) would provide a more secure and safe browsing in Google Chrome.	
Measure of quality outcome:	
Provide a safe and secure browsing	

### How does increased testing improve the usability of Chrome?

Direct Measures	
1	Number of issues reported related to accessibility
2	The time taken for a task to be completed
3	The number of tasks succeeded versus the number of failed tasks
Confounds Controlling Measures	
1. The higher the level of familiarity the user has with Google Chrome, the less time it takes to complete the tasks 2. More use of prototyping (E.g. Beta versions)	
Hypothesis to be tested:	
The increased number of Google Chrome usability tests on adequate amount of users will improve overall usability	
Measure of quality outcome:	
Enhancing the usability by providing faster and convenient browsing	