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How is Your Productivity Affected Based on Your App Usage?

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Introduction

As technology becomes more prominent in society, it is crucial to investigate its effect on day to day life. The purpose of this study is to determine how the amount of time spent on iPhone applications affects how productive students feel in the span of one week. Results are tested through a survey which first determines general information about the student, and then guides students to navigate their phone settings and record the battery usage of the top three applications which use up the most battery. It is hypothesized that productivity decreases as battery usage increases due to the substantial amount of time spent on applications such as social media or other media platforms.

Methods

In order to conduct this experiment, a survey was sent out through Facebook, GroupMe, text message and word of mouth to students of Chapman University. Only students with an iPhone could participate. The survey consisted of 19 questions which first identified general information such as what year they were, and then were more specific questions which are explained in instructions.

Figures

All three scatter plots emphasize that there is no correlation between the amount of sleep and the amount of time spent on the number one and two most used applications. There is also no correlation between hours of sleep and how productive students felt during the week.



Instructions

Each person was instructed to indicate how productive they felt that week on a scale of one to ten. Next, the student was instructed to open their settings application on their phone. Lastly, they opened "Battery" where a drop down list of applications popped up from most used applications to least used applications based on how much battery each application used. The top three applications were recorded by each student as well as the time spent on each application highlighted by using the clock icon on the top right of the screen as seen below.

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General

🛞 Wallpaper

Battery

Privacy

Display & Brightness

Sounds & Haptics Siri & Search

Touch ID & Passcod

🙏 iTunes & App Store

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Wallet & Apple Pay

0 -

Apple ID, iCloud, iTunes & Ap

Settings

Airplane Mode

Personal Hotspot

Notifications

Control Center

C Do Not Disturb

🛜 Wi-Fi

😣 Bluetooth

Cellular

Tables

Variable	Count (%)
Do you live in the dorms? Yes	39 (66.1)
No	20 (33.9)
What year are you?	
Freshman	31(52.54)
Junior	1(1 69)
Senior	8(13.56)
Most Used Apps in Past 24 Hours	
Snapchat	22(37.29)
Instagram YouTube	11(18.64) 4(6.78)
Second Most Used App in 24 Hours	+(0.70)
Instagram	15(25.42)
Snapchat	14(23.73)
Messages	8(13.56)
Third Most Used App in 24 Hours	
Instagram	11(18.64)
Messages	10(16.95)
Snapchat	7(11.86)
Most Used Apps In Past / days	25(46-30)
Instagram	11(20.37)
Messages	3(5.56)
Second Most Used Apps in Past 7	
days	16(29.63)
Snapchat	7(12.96)
Messages	. ()
Third Most Used App in Past 7	
days	9(16.67)
messages Instagram	7(12.90) 5(9.26)
Snapchat	

Variable App App





