

Introduction

Thanks for your interest in participating in our observational study on cannabis use while programming! Based on your pre-screening responses, you appear to be eligible to participate. The next step is this pre-survey which starts with a consent form and then asks some more detailed questions to confirm your eligibility. The consent form will contain more detailed information of the study. You will also be shown a tutorial video, which gets you familiar with the experimental platform. We will also collect some information on your background and cannabis using history. At last, you will complete the scheduling information for the two 1.5 hour sessions at your convenience. The entire survey, together with the tutorial video and the consent form, takes about 20 minutes to complete.

Study ID: 2/1/2023,	IRB:	Date Approved:
Consent Block		
Please enter your partic staff):	ipant ID code (this will be in the ema	il sent to you by the study

Thank you!

Next, please scroll through and read this consent form. You can also download or print the consent form if that makes it easier to read (e.g., if you are on a mobile device). The PDF is not interactive, so you will need to click the consent question in this survey after viewing the PDF rather than the box in the PDF itself. If you are having trouble scrolling through the multi-page PDF in qualtrics (this sometimes happens on Safari or iOS), you can also access the consent form

here:

If you have additional questions before consenting to participate in this study, please contact the research team:



CONSENT TO BE PART OF A RESEARCH STUDY

1. KEY INFORMATION ABOUT THE RESEARCHERS AND THIS STUDY

Study title: Observational Study of Cannabis-Using Programmers

You are invited to take part in a research study. This form contains information that will help you decide whether to join the study.

1.1 Key Information

Things you should know:

- The purpose of the study is to observe the effects of cannabis intoxication on software-related programming activities.
- You are eligible to participate if you are at least 21, know how to program and have used cannabis in the last year, have vaped or smoked cannabis, and have a personal computer you can use to join the study session zoom calls remotely. If you only use cannabis edibles, you are not eligible to participate.
- If you choose to participate, you will first be asked to complete a pre-survey and training video (~15 minutes). After that, you will be asked to attend two remote sessions via Zoom, one while you are intoxicated using cannabis and the other while you are not using cannabis. In each session, you will be asked to complete a set of small programming tasks, three open-ended interview-styled coding questions, and a small number of standardized psychological tests. Each session will take approximately 1.5 hours. You will also be asked to complete a survey about your intoxication level and your experience in the study in each session.

Consent to Participate in the Research Study: By checking this checkbox, you are agreeing to be in this study. Make sure you understand what the study is about before you sign. We will give you a copy of this document for your records and we will keep a copy with the study records. If you have any questions about the study after you sign this document, you can contact the study team using the information in Section 9 provided above.

Date of check (mm/dd/yy):
☐ I Consent to participate in this research study, including audio and video
to take part in this study.
I understand what the study is about and my questions so far have been answered. I agree

Consent to be Contacted for Participation in Future Research: Researchers may wish to keep your contact information to invite you to be in future research projects that may be similar to or completely different from this research project.
O Yes, I agree for the researchers to contact me for future research projects.
O No, I do not agree for the researchers to contact me for future research projects.
General Demographics
We will first ask you some demographic questions.
To which gender identity do you most identify?
O Women
O Man
O Non-binary / third gender
O Prefer not to say
O Not listed
What is your sex?
O Male
○ Female
O Intersex

How old are you? (In years)	
What's your approximate weight in pounds? (We ask about this because body mass is one of the medical factors relevant to drug impact.)	
Which category best describes your race or ethnic group? One or more categories may be marked.	
☐ American Indian/Alaska Native	
Asian	
☐ Black/African American	
Hispanic or latino	
■ Native Hawaiian/Other Pacific Islander	
☐ White/Caucasian	
Other	
What best describes your current employment status? [select all that apply]	
☐ Undergradute Student in a computing-related field	
☐ Undergraduage student in another field	
Graduate student in a computing-related field	
Graduate student in another field	
☐ Full-time/Part-time job in Computer Science related fields	
☐ Full-time/Part-time job in other fields	
☐ Unemployed	

■ None of the above
General Programming History
We will now ask you some questions about your programming background.
How many years of programming experience do you have?
O Less than 1 year
O 1 -2 years
O 3 - 5 years
O 6 - 10 years
O 11 - 20 years
O 21 - 30 years
Over 30 years
What formal programming education have you completed? [select all that apply]
☐ One or more high school programming courses
One or more college-level programming courses
☐ One or more coding bootcamps
☐ I have a Bachelors degree in computer science or a related field
☐ I have a Masters degree in computer sciene or a related field
I have a doctorate degree in computer science or a related field
☐ I am self-taught

Have you ever either read or written programs as part of a work or employment role?

O Yes		
○ No		
O No, but I am currently applying for programming-related jobs		
O No, but I will apply for programming-rela	ted jobs in the future	
How many years of professional programmi	ng experience do you have?	
O less than 1 year		
O 1 − 5 years		
○ 5 – 10 years		
O 10 – 20 years		
O More than 20 years		
Please select all programming-related employs Computer Science / Programming Instructor Computer Science Researcher Data Analyst Data Scientist or Engineer Freelance Developer Front End Developer Information Technologies (IT) Open Source Developer	oyment positions you have ever held: Product Manager Quality Assurance Engineer Self-employed Software Developer / Programmer Software Engineer Systems Engineer Web Developer Other (please describe)	
Python - Leetcode history		

Python - Leetcode history

Have you ever done "LeetCode" style coding interview probelms before? [Select all that apply]			
 Yes - I have done "LeetCode" style problems in an interview for a programming-related job Yes - I have done "LeetCode" style problems in non interview settings (e.g., self-directed practice, course assignment, etc.) 			
No - I have never heard of "LeetCode" style programming problems			
About how many "LeetCode" style programming problems have you done?			
Over 50			
O 26 - 50			
O 10 - 25			
O 5 - 10			
O 1 - 5			
Have you ever used Python to solve "LeetCode" style problems?			
O Yes			
O No			
How confident do you feel regarding your ability to complete "LeetCode" style coding problems?			
O Very Confident			
O A little Confident			
O Unsure			
O Not Confident			

O Very not Confident		
General Cannabis Usage Patterns: DFAQ-CU		
We will now ask you questions reg	arding your general cannabis usage history.	
Note that the term cannabis is used cannabis-infused edibles.	d to refer to marijuana, cannabis concentrates, and	
Have you ever used cannabis?		
O Yes		
O No		
Which of the following best capture	es when you last used cannabis?	
O over a year ago	O last week	
O 9 – 12 months ago	O this week	
O 6 – 9 months ago	O yesterday	
O 3 – 6 months ago	O today	
○ 1 – 3 months ago	I am currently high	
less than 1 month ago		
How high are you right now?		
O I am not at all high		
O I am a little bit high		
O I am moderately high		

O I am very high	
O I am extremely high	
Which of the following best captures the ave	erage frequency you currently use cannabis?
willow the following best captures the ave	erage frequency you currently use carmabis:
O I do not use cannabis	O once a week
O less than once a year	O twice a week
O once a year	O 3 – 4 times a week
O once every 3-6 months (2-4 times/yr)	○ 5 – 6 times a week
O once every 2 months (6 times/yr)	once a day
once a month (12 times/yr)	more than once a day
O 2 – 3 times a month	
Which of the following best captures how lo frequency?	ng you have been using cannabis at this
O less than 1 month	O 2 – 3 years
\bigcirc 1 – 3 months	3 − 5 years
\bigcirc 3 – 6 months	5 − 10 years
○ 6 – 9 months	O 10 – 15 years
O 9 – 12 months	O 15 – 20 years
○ 1 – 2 years	O more than 20 years
Before the period of time you indicated abor	ve, how frequently did you use cannabis?
O I did not use cannabis	O once a week
O less than once a year	O twice a week
O once a year	O 3 – 4 times a week

 once every 3-6 months (2-4 times/yr) once every 2 months (6 times/yr) once a month (12 times/yr) 2 – 3 times a month 	5 – 6 times a weekonce a daymore than once a day
How many days of the past week did you us	se cannabis?
O 0 days	
O 1 day	
O 2 days	
O 3 days	
O 4 days	
O 5 days	
O 6 days	
O 7 days Approximately how many days of the past n	month did you use cannabis?
Which of the following best captures the numeritie life?	mber of times you have used cannabis in your
○ 1 – 5 times in my life	O 501 – 1000 times in my life
O 6 − 10 times in my life	O 1001 – 2000 times in my life
O 11 − 50 times in my life	O 2001 – 5000 times in my life
→ 51 –100 times in my life	O 5001 – 10,000 times in my life
○ 101 – 500 times in my life	More than 10,000 times in my life

Which of the following best captures your pattern of cannabis use throughout the week?				
O I do not use cannabis at all				
O I only use cannabis on weekends				
O I only use cannabis on weekdays				
O I use cannabis on weekends and we	eekdays			
How many hours after waking up do yo	u typically first use cannabis?			
O I do not use cannabis at all	○ 1 – 3 hours after waking up			
O 12 – 18 hours after waking up	within 1 hour of waking up			
○ 9 – 12 hours after waking up				
○ 6 – 9 hours after waking up	immediately upon waking up			
○ 3 – 6 hours after waking up				
How many times a day, on a typical we	ekday, do you use cannabis?			
How many times a day, on a typical we	ekend, do you use cannabis?			
What is the primary method you use to	o ingest cannabis?			
O I do not use cannabis	O Hookah			
O Joints	O Vaporizer (e.g., Volcano, Vape pen)			
O Blunts (cigar sized joints)	O Edibles			

Hand pipe	0	Other
O Bong (water pipe)		
Which of the following other methods of the time use you cannabis)? [Mark		nnabis do you use regularly (at least 25%
☐ I do not use cannabis ☐ Joints ☐ Blunts (cigar sized joints) ☐ Hand pipe ☐		Hookah Vaporizer (e.g., Volcano, Vape pen) Edibles Other
☐ Bong (water pipe)		
What is the primary form of cannabi	is you use?	
NoneMarijuanaConcentrates (e.g., Oil, Wax, ShaEdiblesOther	atter, Butane l	Hash Oil, Dabs)
What other forms of cannabis do you cannabis)? [Mark all that apply]	ı use regular	ly (at least 25% of the time you use
NoneMarijuanaConcentrates (e.g., Oil, Wax, Sha	atter, Butane	Hash Oil, Dabs)

Edibles	
	Other

Please use the image below to refer to various quantities of marijuana. The image is not to scale; the dollar bill is included to help provide size perspective.



For questions 17 to 19 below, clearly indicate the number of grams of marijuana you use with a number between 0 - 100. Do NOT include other forms of cannabis you may use (such as concentrates). You may use up to 3 decimals to indicate amounts under 1 gram.

Note: 1/8 of a gram = 0.125 grams, $\frac{1}{4}$ of a gram = 0.25 grams, $\frac{1}{2}$ of a gram = 0.5 grams, $\frac{3}{4}$ of a gram = 0.75 grams. $\frac{1}{8}$ of a ounce = 3.5 grams, $\frac{1}{4}$ of an ounce = 7 grams, $\frac{1}{2}$ ounce = 14 grams, 1 ounce = 28 grams

In a typical session, how much marijuana do you personally use? (Leave blank if you do not know.)

On a typical day you use ma	arijuana, how much do you personally use? (Leave blank if
In a typical week you use mablank if you do not know.)	arijuana, how much marijuana do you personally use? (Leave
On a typical day you use ma	arijuana, how many sessions do you have?
What is the average THC co	ontent of the marijuana you typically use? (Leave blank if you
O 0 – 4%	
O 5 – 9%	
O 10 – 14%	
O 15 – 19%	
O 20 – 24%	
O 25 – 30%	
O greater than 30%	

In a typical session you use cannabis concentrates, how many hits do you personally take?

On a typical day you use cannabis concentrates, how many hits do you personally take?
How many hits of cannabis concentrates did you personally take yesterday?
On a typical day you use cannabis concentrates, how many sessions do you have?
What is the average THC content of the concentrates you typically use? (Leave blank if you do not know.)
0 - 9%
○ 10 – 19%○ 20 – 29%
O 30 – 39%
O 40 – 49%
O 50 – 59%
○ 60 – 69% ○ 70 – 79%
O 80 – 90%
O greater than 90%

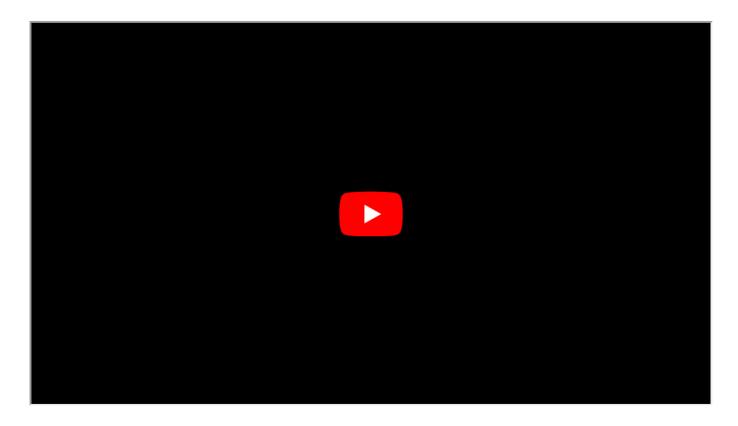
Has there been any time in your life when you used cannabis regularly (2 or more times pendonth for 6 months or longer)?					
○ Yes○ No					
Has there been any time in your life v for 6 months or longer?	vhen you used cannabis on a daily or near daily basis				
O Yes O No					
Cannabis and Programming					
We will now ask you questions regard history.	ding your programming-specific cannabis usage				
Have you ever used cannabis while p	programming?				
O Yes O No					
Which of the following best captures programming in your entire life?	the number of times you have used cannabis while				
○ 1 – 5 times in my life	O 101 – 500 times in my life				
O 6 − 10 times in my life	→ 501 – 1000 times in my life				
O 11 – 50 times in my life	More than 1000 times in my life				
→ 51 –100 times in my life					

Which of the following best captures the average frequency you currently use cannabis while programming, coding, or completing any other software engineering-related task?					
 I do not use cannabis less than once a year once a year once every 3-6 months (2-4 times/yr) once every 2 months (6 times/yr) once a month (12 times/yr) 2 – 3 times a month 	 once a week twice a week 3 - 4 times a week 5 - 6 times a week once a day more than once a day 				
Has there been any time in your life when you coding, or completing any other software engineenth for 6 months or longer)? O Yes O No	u used cannabis regularly while programming, ineering-related task (2 or more times per				
When using cannabis while programming, what following administration methods? (numbers					
Smoking	0				
Vaping	0				
Edibles	0				
Other (please describe)	0				
Total	0				

Tutorial Video

Thank you for filling out all of the demographics and background questions. Next, please watch this tutorial video. The video is 4 minutes long. It helps you get familiar with the coding platform you will be using during the two sessions. You are encouraged to familiarize yourself again with this video before your first session.

If the video is too small, feel free to click on the YouTube logo to watch on YouTube rather than in the survey itself.



SchedulingIntro

Session Scheduling

Thank you for completing the background and training information! The last step in this

survey is to schedule the two programming sessions. Each session will be booked for 1.5 hours.

You have been randomly assigned to the "Sober First" condition. As a result, we will ask that you are sober for your first programming session and that you have vaped or smoked cannabis before your second programming session. On the next page, please use the scheduler to book your first session.

Session Scheduling

Thank you for completing the background and training information! The last step in this survey is to schedule the two programming sessions. Each session will be booked for 1.5 hours.

You have been randomally assigned to the "Cannabis First" condition. As a result, we will ask that you have vaped or smoked cannabis before your first programming session, and that you are sober before your second programming session. On the next page, please use the scheduler to book your first session.

SchedulingSober

Please click the scheduling app below and then choose your preferred time for the **sober session.** You will get an email confirming the time of your appointment. You will also get a calendar invite titled "Study Session for Study". The appointment will take place over zoom.

If you are having trouble accessing the embedded calendar below, you can also access the scheduling link

If you'd prefer a different method of scheduling your session or have any questions, please reach out to the study team

	_
I'm not a robot reCAPTCHA Privacy - Terms	
About this page	_
Our systems have detected unusual traffic from your computer network. This page checks to see if it's really you sending the requests, and not a robot. Why did this happen?	
heduling Connector	
ank you for scheduling the first session! On the nession. Please schedule this second session for ssion you just scheduled.	
hedulingHigh	

Please click the scheduling app below and then choose your preferred **intoxicated session.** Once the session is booked, you will get an email confirming the time of your

For the intoxicated session, please schedule at a time when you will be in a location where you feel comfortable consuming cannabis and don't have to travel for at least 2 hours after the session. We will ask you to verbally confirm you are in a safe location at the beginning of the session. 5-10 minutes before the session, you will be asked to vape or smoke cannabis and send us a picture of the product that you used. More details about this will be in the email we send you confirming your intoxicated session time.

If you are having trouble accessing the embedded calendar below, you can also access the

If you'd prefer a
ease reach out to the

