Intro Page

Thank you for your interest in participating in our study! This prescreening will determine if you are eligible.

This study is being run by ███████████████████████████████ ████████████ We are investigating the effects of acute cannabis use on software programming ability. Participants will complete an initial remote survey and then two remote programming sessions via Zoom, one when you are intoxicated on cannabis and one when you are not. Each session will last for around 1.5 hours. In each session, you will be asked to complete the following type of questions:

- Short programming tasks (remove a bug, complete a partial program, etc.)
- Short psychological tests (n-back recall task, a spatial reasoning task, etc.)
- Open-ended 'interview-styled' coding tasks (leetcode-styled problems)

Participants will be compensated $80(either Amazon gift cards or other electronic payments) for the two trials. To participate in this study, you must meet all of the following requirements:

- Be at least 21
- Have used cannabis in the last year
- Have smoked or vaped cannabis before
- Have programming skills in Python (at least at the level of a senior undergraduate)
- Be willing to be observed during two recorded programming sessions

- Have a personally-owned computer to use while taking the study

If you are eligible for (or think you might be eligible) and willing to participate in this study, please continue to complete the following pre-screening survey. We will collect your background information and contact you for scheduling the sessions. The entire pre-screening survey takes about a 5 min.

If you are not eligible to participate or you are eligible, but choose not to participate, your responses will not be used in our study and will be destroyed.

If you have any questions about this study, please contact:

Demographics

How old are you?

○ < 21
○ 21-25
○ 26-30
○ 31-50
○ > 50

What best describes your job type?

☐ Undergraduate student in a CS-related major

- [ ] Undergraduate Student in other field
- [ ] Graduate student in CS-related major
- [ ] Graduate student in other fields
- [ ] Full-time CS-related job
- [ ] Part-time CS-related job
- [ ] Full-time/Part-time job in other fields
- [ ] Unemployed
- [ ] None of the above

Programming Experience

How many years of experience in programming do you have?

- ( ) <1 year
- ( ) 1-2 years
- ( ) 3-5 years
- ( ) 6-10 years
- ( ) >10 years

Do you have a personally-owned computer that you can use to participate in this study?

- ( ) Yes
- ( ) No

How many years of **professional** programming experience do you have? (i.e., being paid to read and write programs)

- ( ) <1 year

- ○ 1-2 years
- ○ 3-5 years
- ○ 6-10 years
- ○ >10 years

What's your experience with Python?

- ○ I don't know this language.
- ○ I know of this language, but I never use it.
- ○ I rarely use this language. (<5% of my programming tasks)
- ○ I sometimes use this language. (5%-30% of my programming tasks)
- ○ I frequently use this language. (>30% of my programming tasks)

Cannabis Usage

Have you ever used cannabis before?

- ○ Yes - at least once in the last year
- ○ Yes - but not in the last year
- ○ No

Which of the following best captures the average frequency you currently use cannabis?

- ○ 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

Have you ever used cannabis while programming?

- ◯ Yes
- ◯ No

What method(s) have you ever used to ingest cannabis? Note: If you only use edibles to consume cannabis, you are not eligible for this study as you will be asked to smoke or vape cannabis before one of the sessions.

- ☐ Smoking
- ☐ Vaping
- ☐ Edibles
- ☐ [_____] Other (please describe)

Python Ability

Finally, we will use some questions to varify your programming and Python ability. (8 short questions in total)

How do you insert COMMENTS in Python code?

- ○ /* This is a comment */
- ○ # This is a comment
- ○ // This is a comment
- ○ <-- This is a comment -->

What is the correct way to start a function definition in Python?

- ○ def myFunction()
- ○ create myFunction()
- ○ function myFunction()

Which one is a valid if statement in Python?

- ○ if x>y: True
- ○ if (x>y); True
- ○ if x>y then: True
- ○ if (x>y) then True

What's the output of this Python program?

```
fruits = ["apple", "plum", "cherry", "kiwi", "fig"]
newlist = [x for x in fruits if len(x)>5]
print(newlist)
```

What's the output of this program?

```
fruits = ["apple", "banana", "cherry"]
for x in fruits:
    if x == "banana":
        continue
    print(x)
```

- ○ ["apple", "banana", "cherry"]
- ○ ["banana"]
- ○ ["apple"]
- ○ ["cherry"]
- ○ ["apple","cherry"]
- ○ ["banana","cherry"]
- ○ ["apple","banana"]

How many times has the print statement been called in this program?

```
fruits = ["apple", "banana", "cherry"]
i = 0
for i in range(len(fruits)):
    print(fruits[i])
```

- ○ 1
- ○ 2
- ○ 3
- ○ 4
- ○ 5

Choose the answer that best fits the definition of a recursive function.

○ I don't know.

○ A function that runs for an infinite time.

○ A function that does not have a return function.

○ A function that calls itself.

○ A function that can be called from other function.

○ A function that does not require any inputs.

Ok, last one: Say you see the following code that represents a node in a binary tree:

```
class Node:
    def __init__(self, data):
        self.left = None
        self.right = None
        self.data = data

a = Node(10)
b = Node(4)
c = Node(8)
a.left = b
b.right = c

print(a.left.data + a.left.right.data)
```

What would this code print?

Email

Please provide your email address. By filling in your email address, you indicate that we can further contact you about the sessions via email.