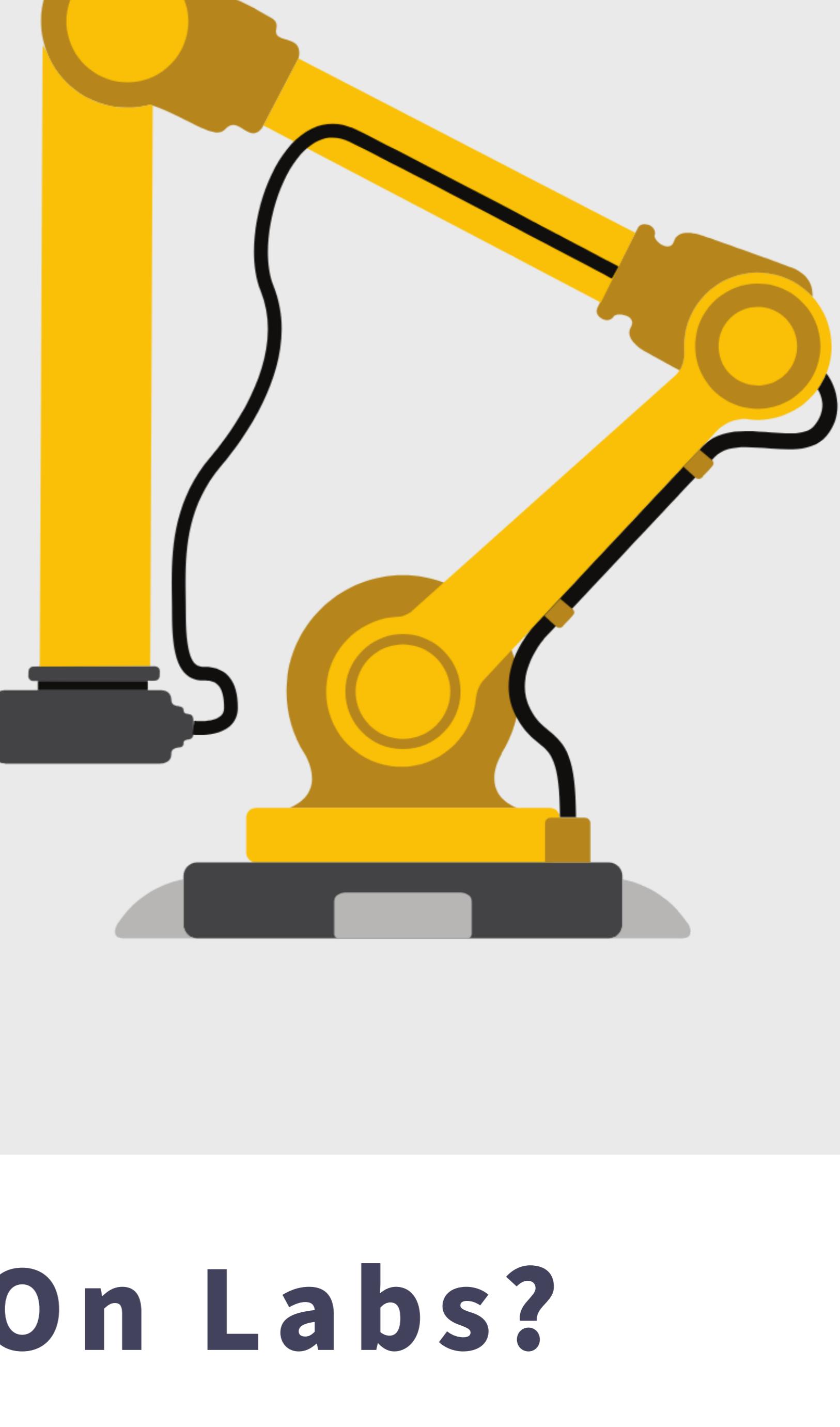


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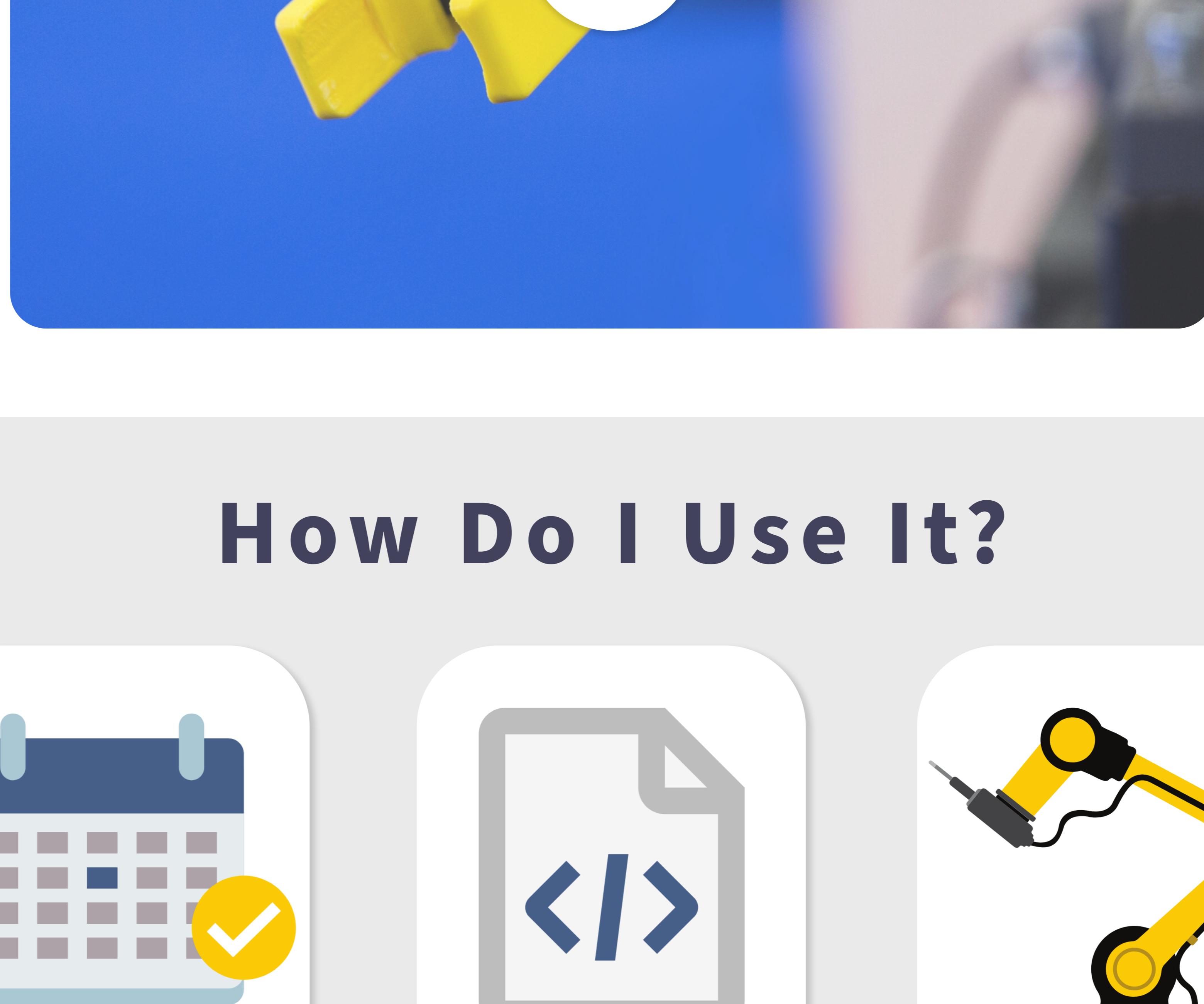
Hands-On Labs

A Virtual Hands-On Lab Experience

Remotely Control A Robotic Arm To Execute Your Commands In Real Time Using Internet Of Things Technology.

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What Is Hands-On Labs?



How Do I Use It?



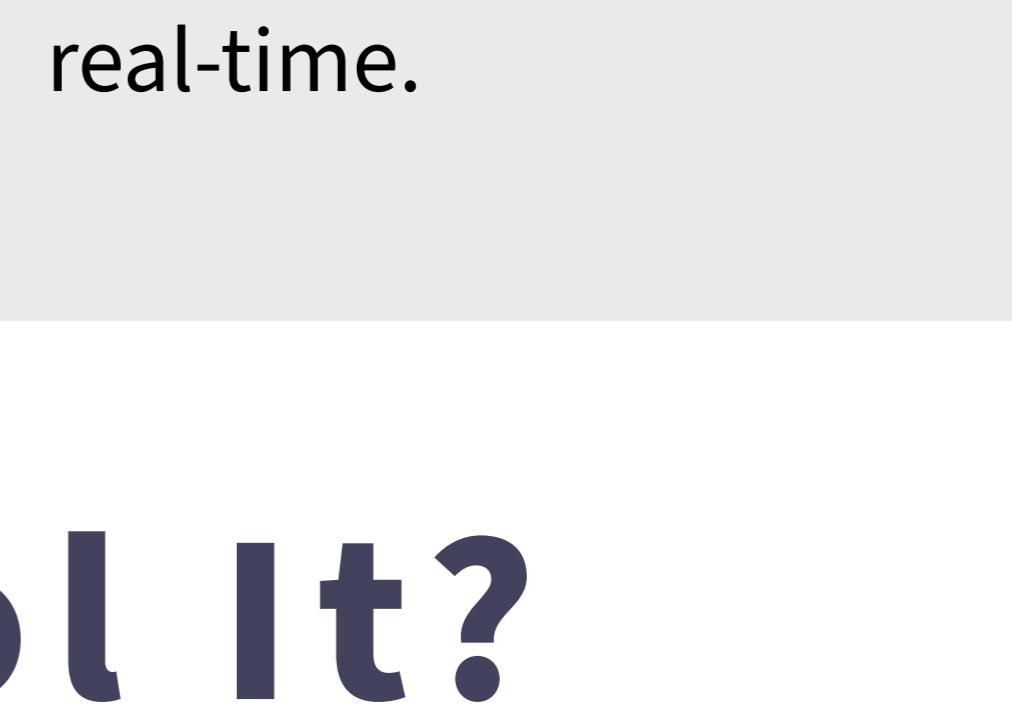
1 BOOK

Book an available time slot through the calendar available on your dashboard



2 DEVELOP

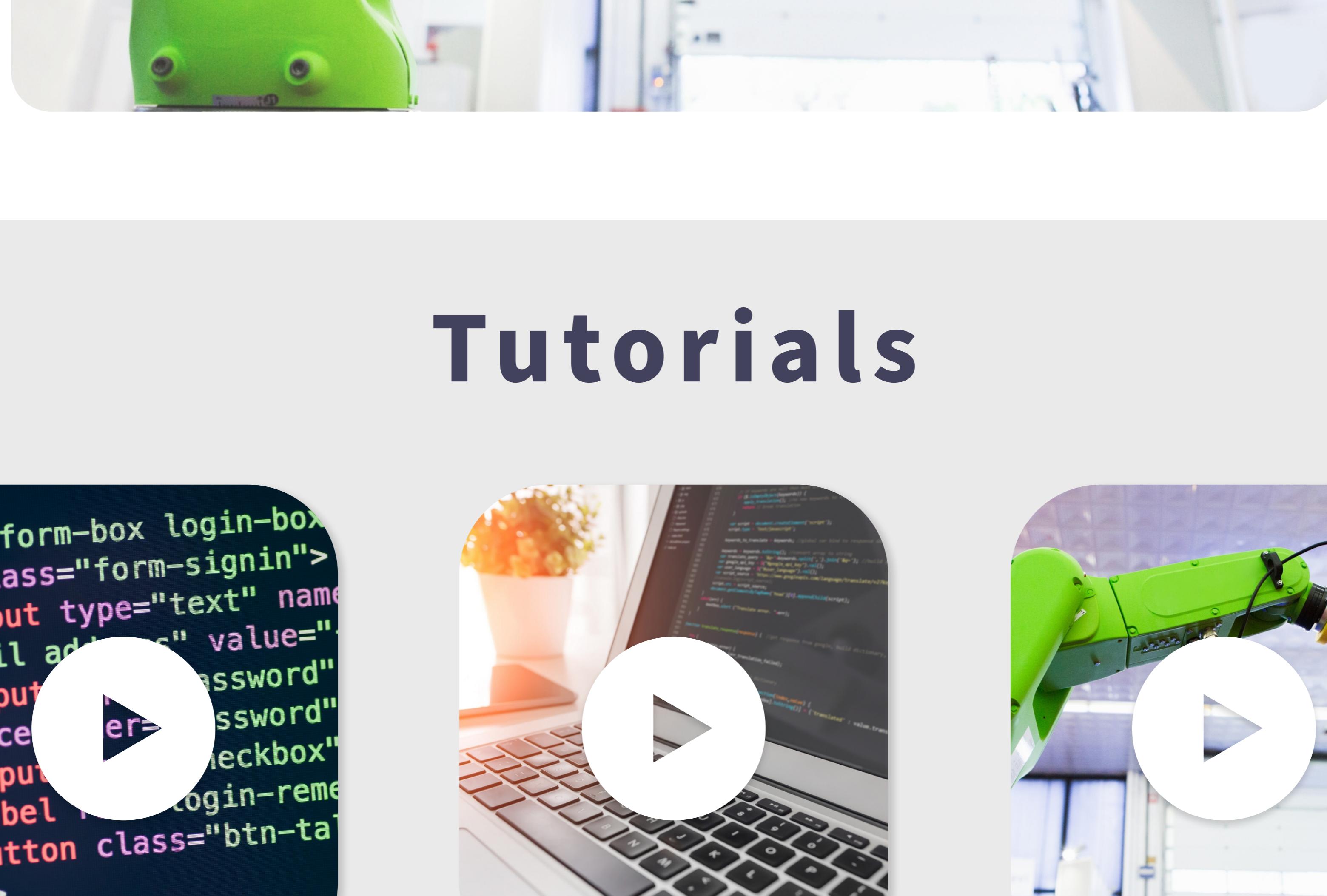
Develop the code that you wish to run on the robotic arm hardware.



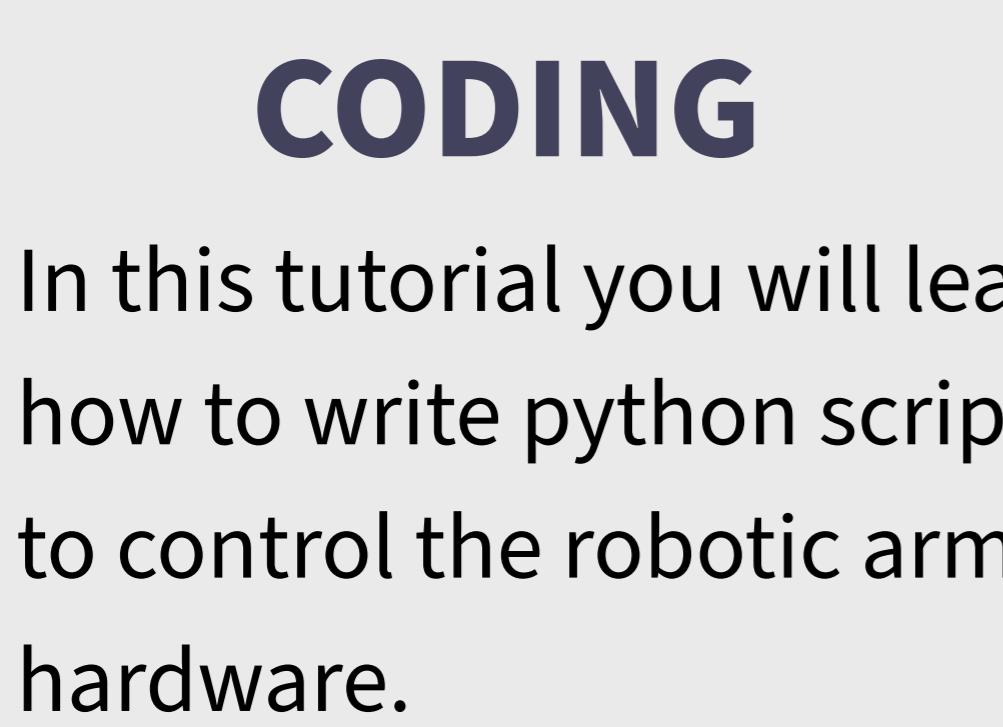
3 OBSERVE

Upload your code and observe it being executed on the robotic arm hardware in real-time.

How Do I Control It?

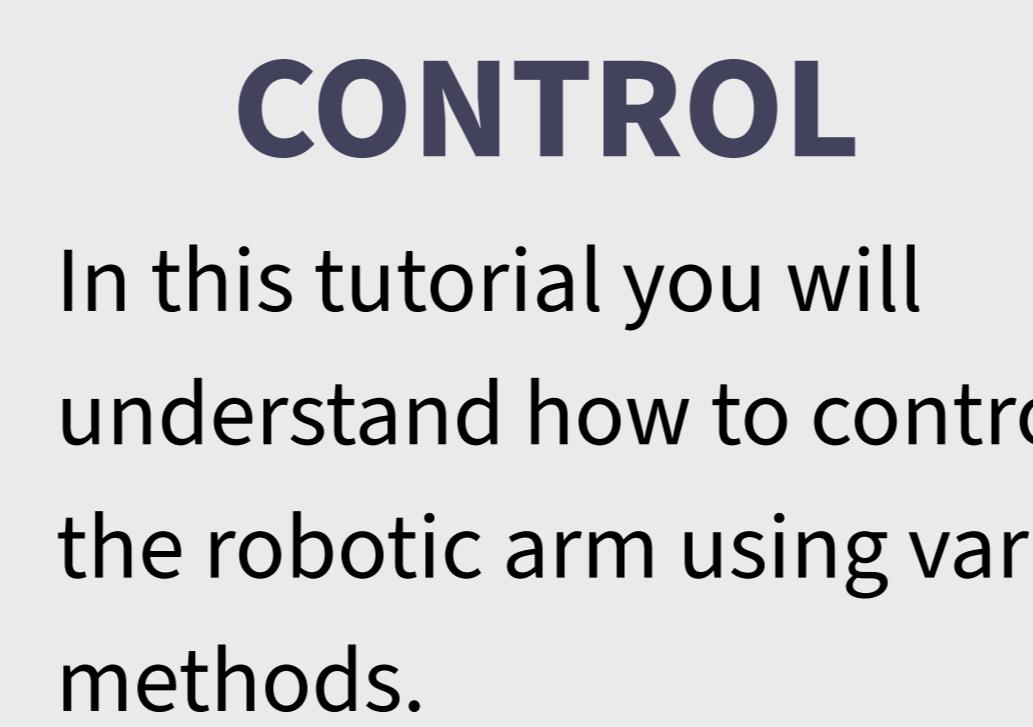


Tutorials



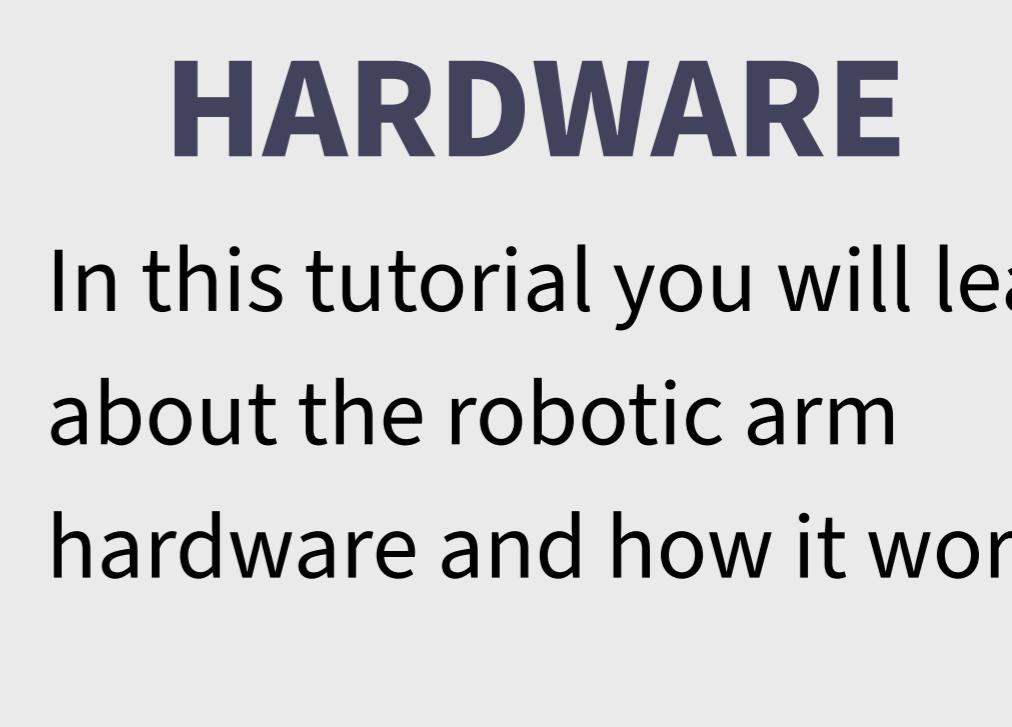
CODING

In this tutorial you will learn how to write python scripts to control the robotic arm hardware.



CONTROL

In this tutorial you will understand how to control the robotic arm using various methods.



HARDWARE

In this tutorial you will learn about the robotic arm hardware and how it works.



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Coding

Control

Hardware

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Sign-Up

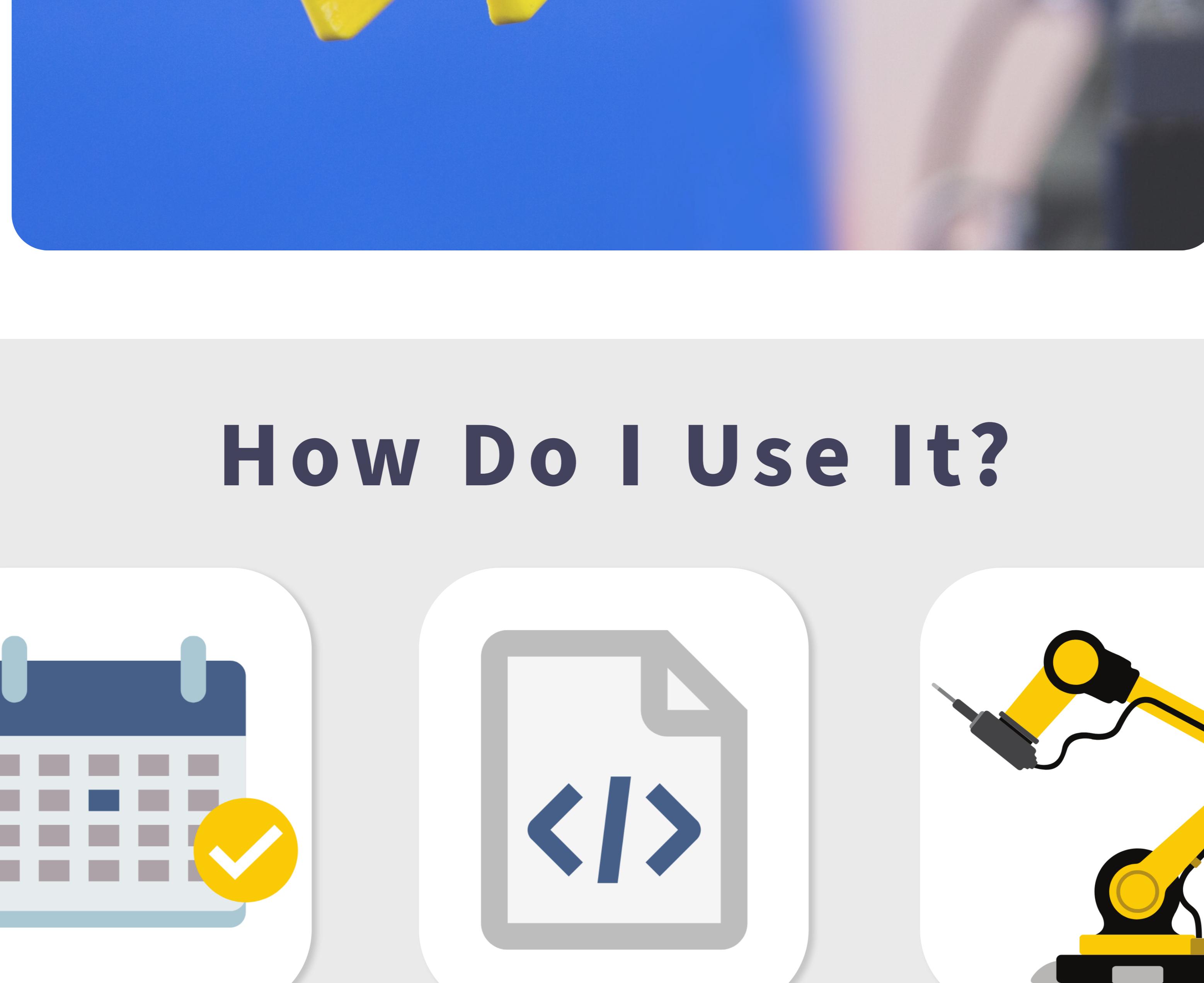
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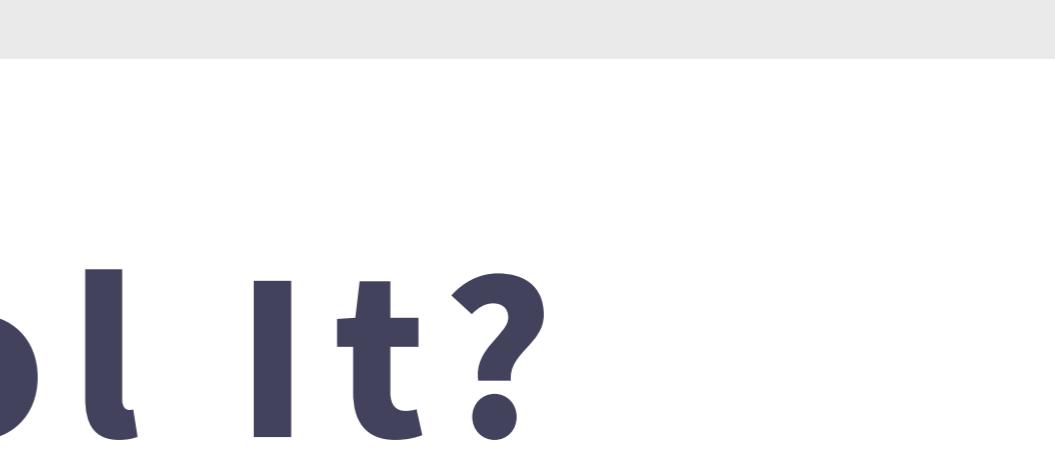
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2 DEVELOP

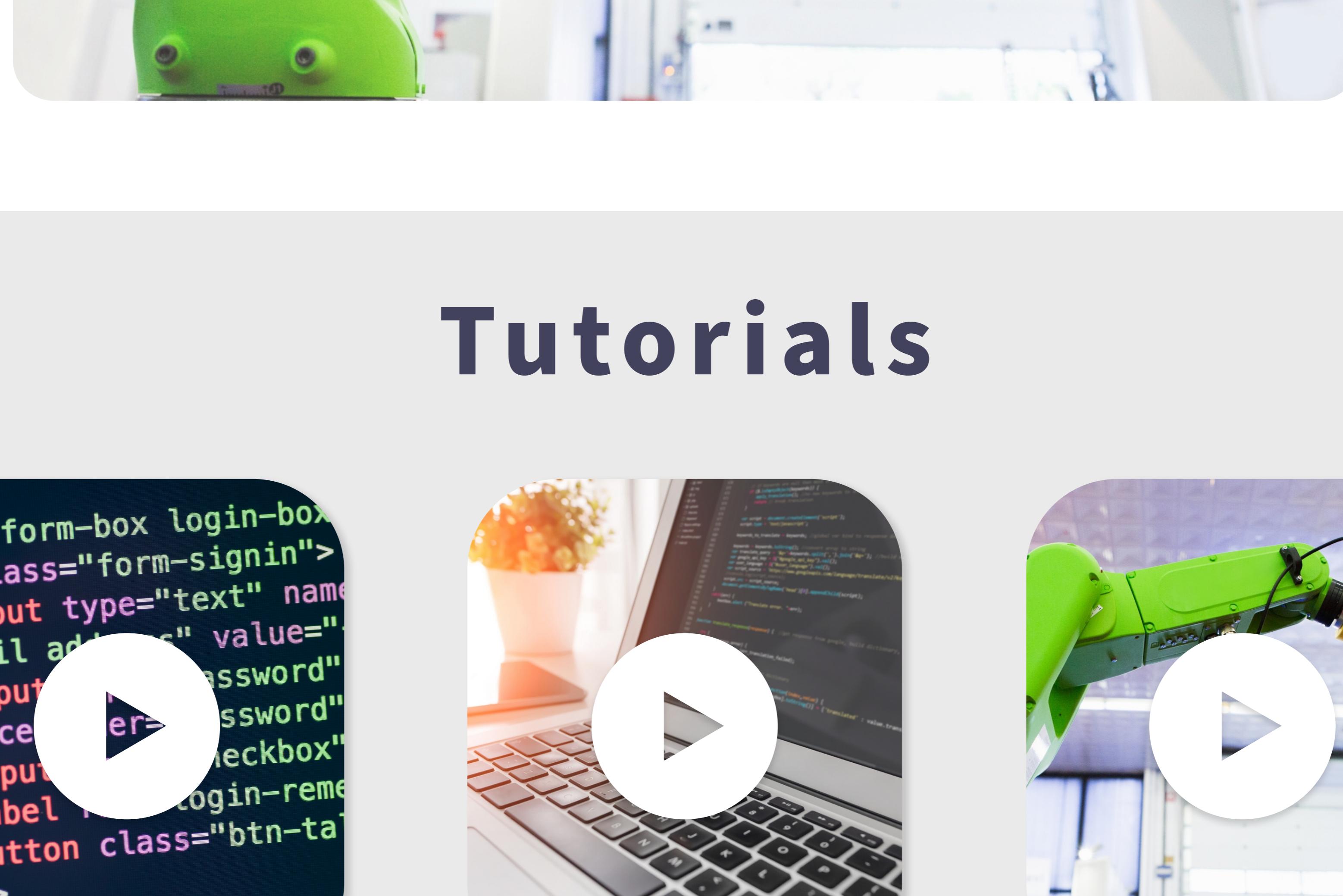
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3 OBSERVE

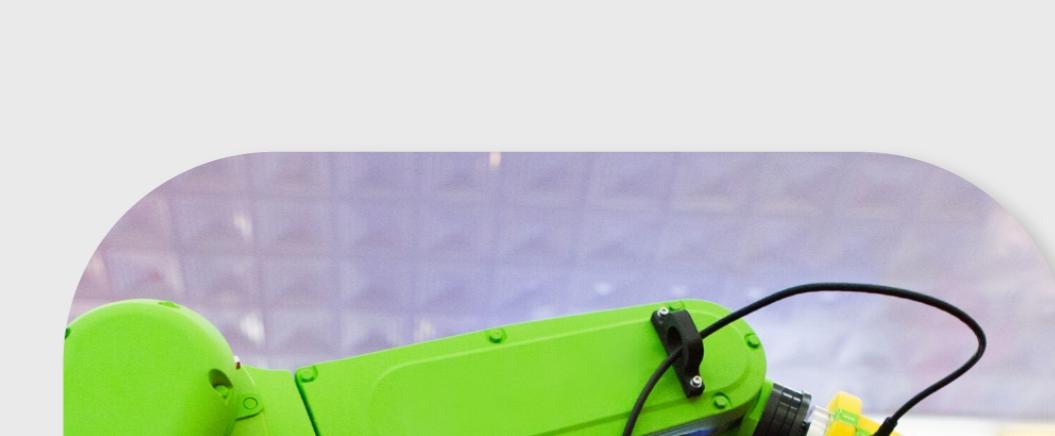
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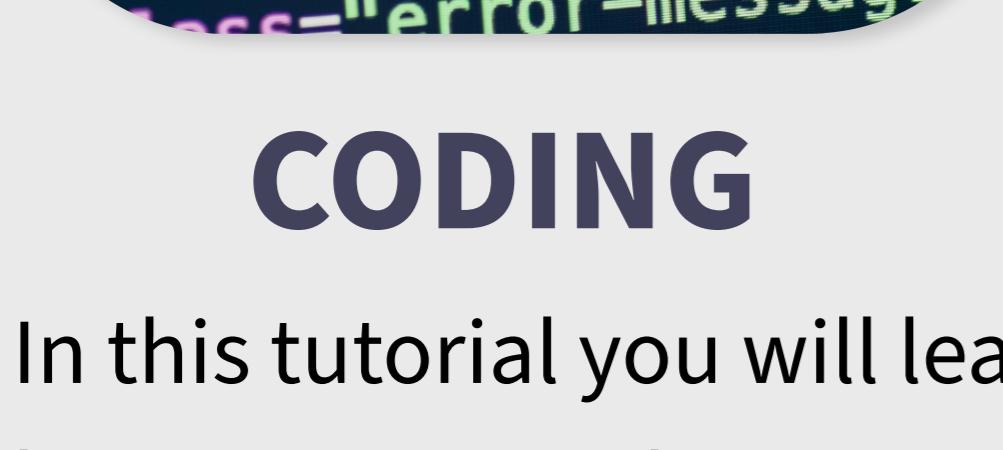
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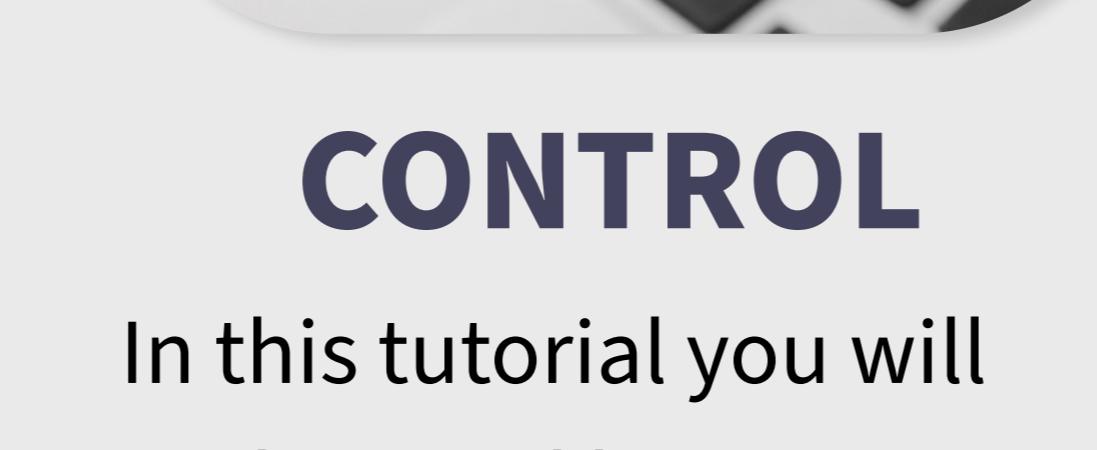
HARDWARE

In this tutorial you will learn about the robotic arm hardware and how it works.



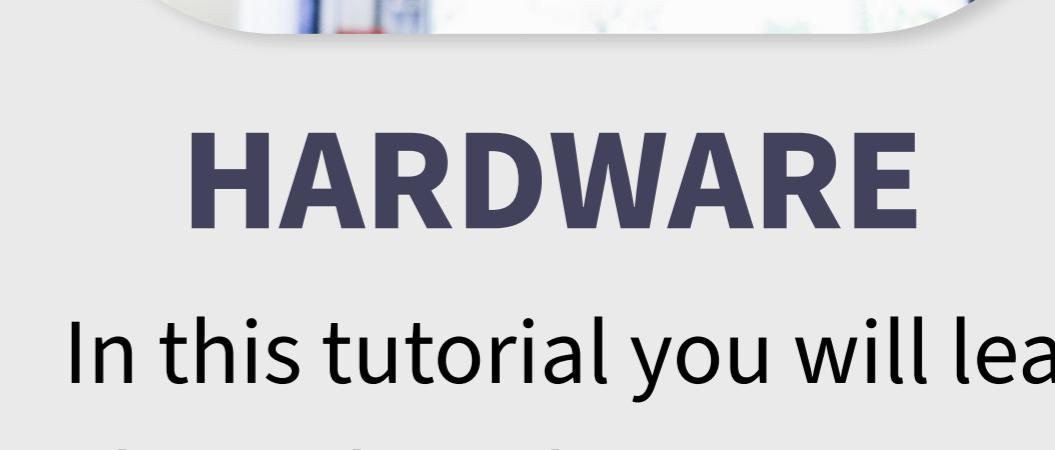
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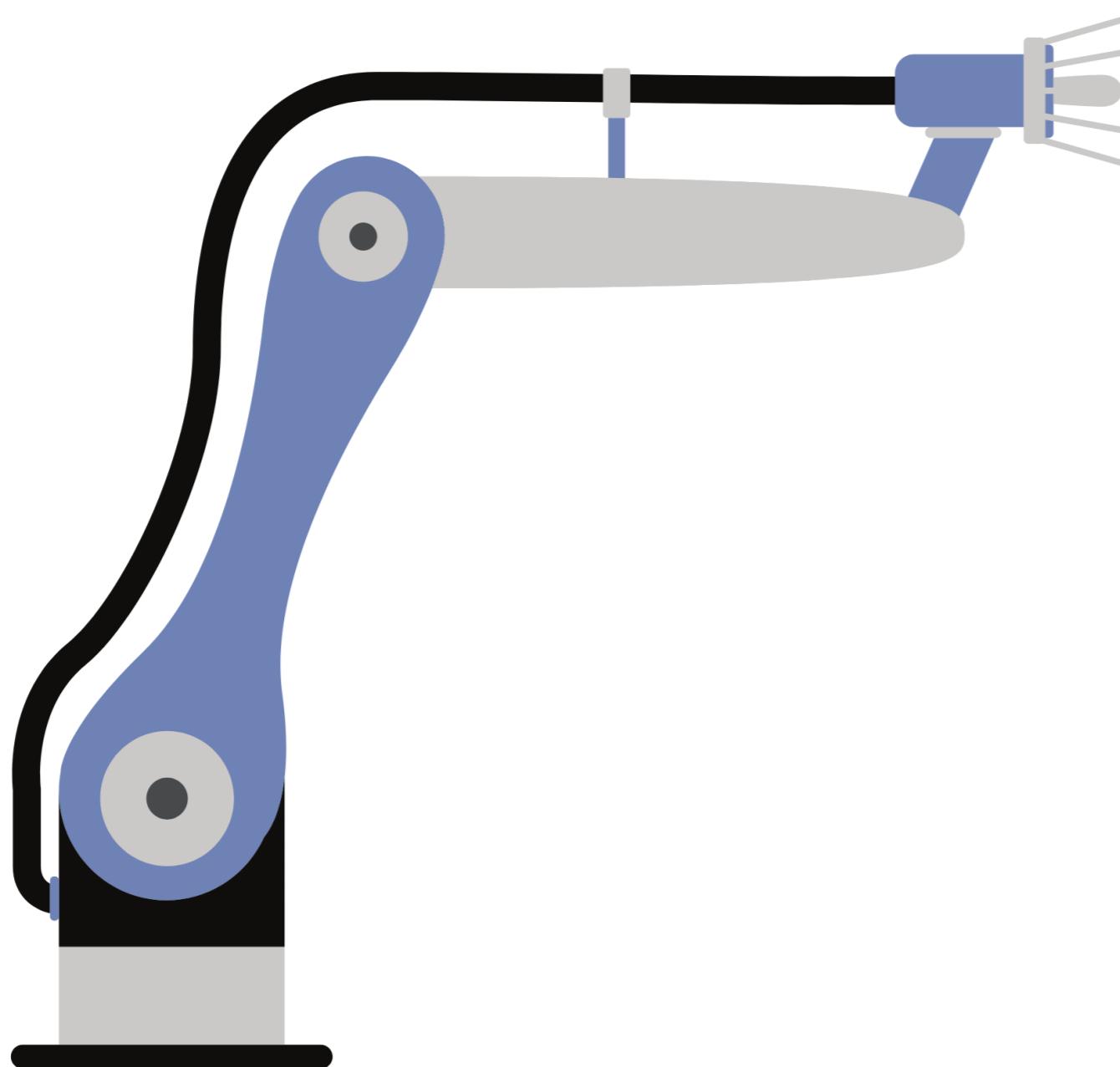
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Please login to your account

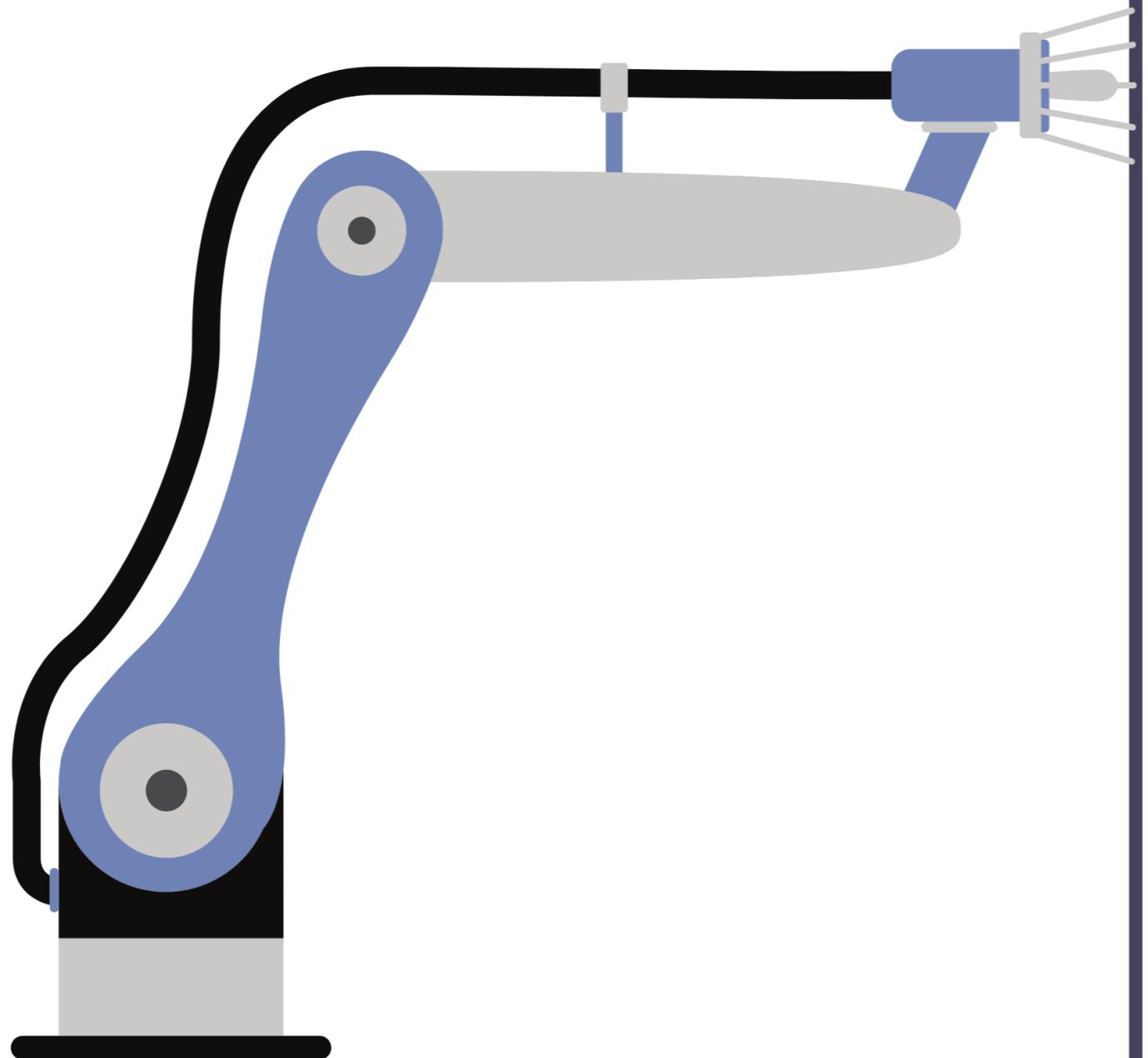
Username

Password

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Please complete to create your account.

You must have @minerva.kgi.edu email to register

First name

Last name

Username

Email

Password

Confirm Password

I agree with terms and conditions

SIGN UP

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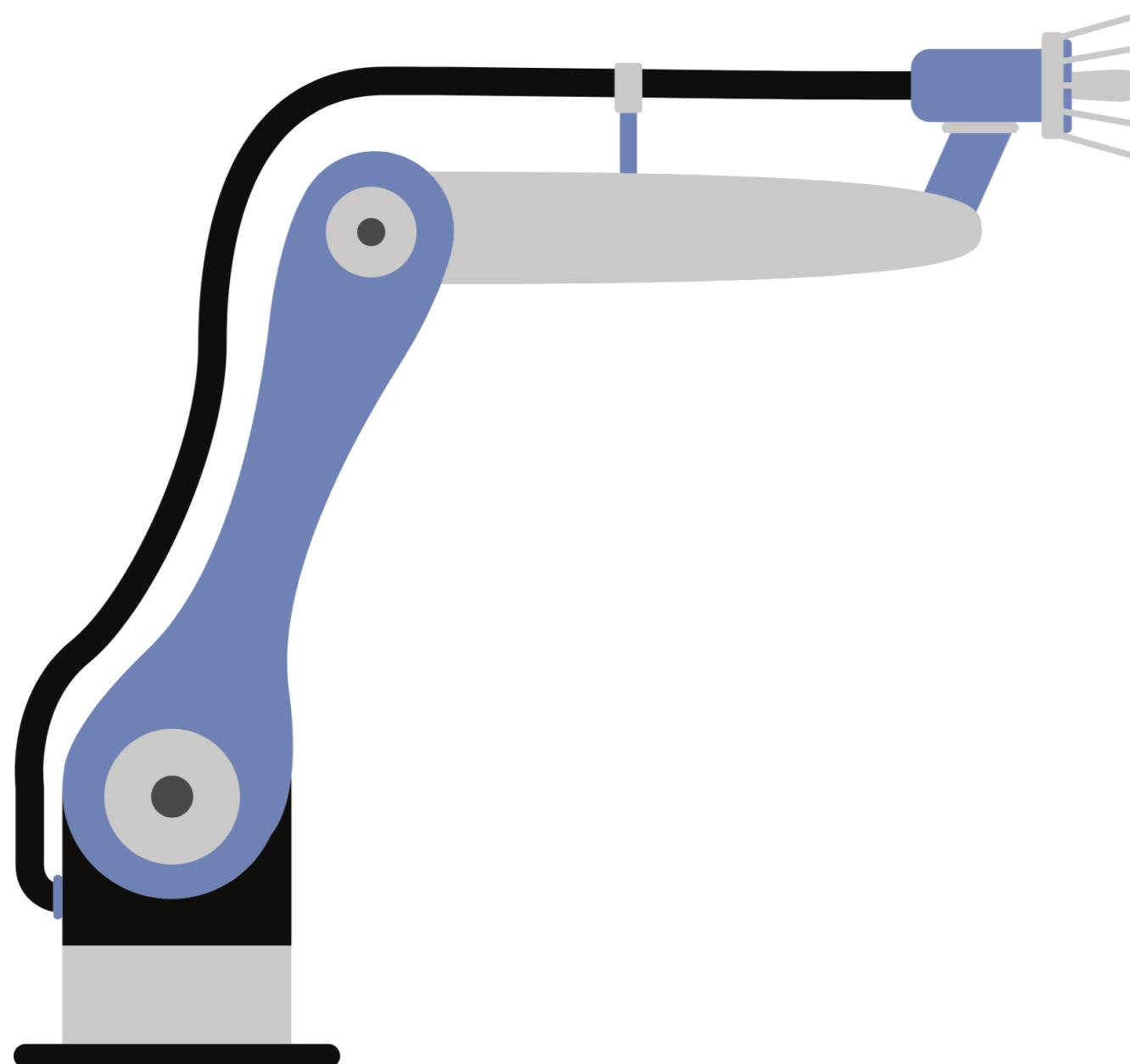
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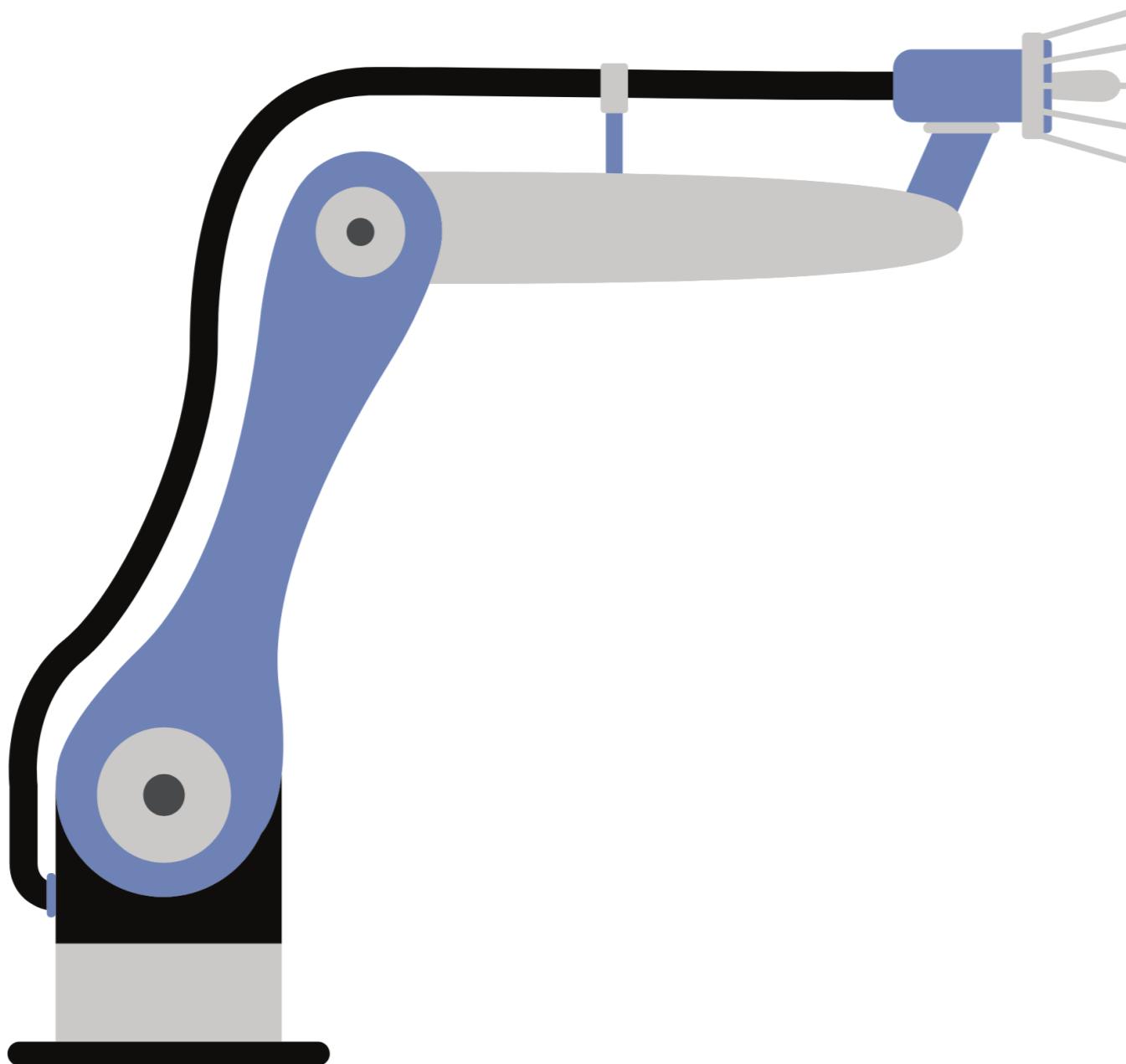
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E-mail

Type something...

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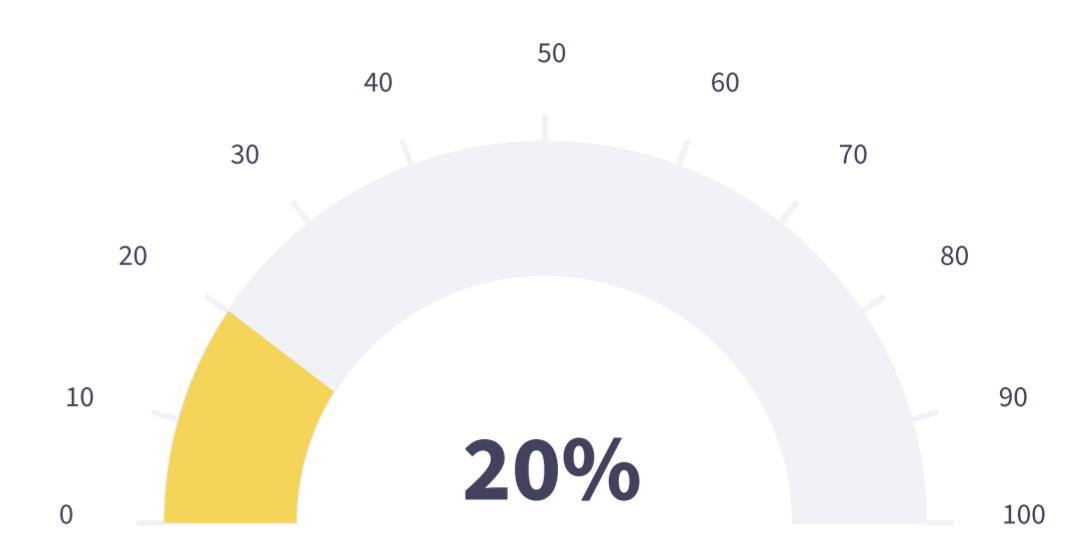
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Welcome, Ahmed

Your Upcoming Sessions

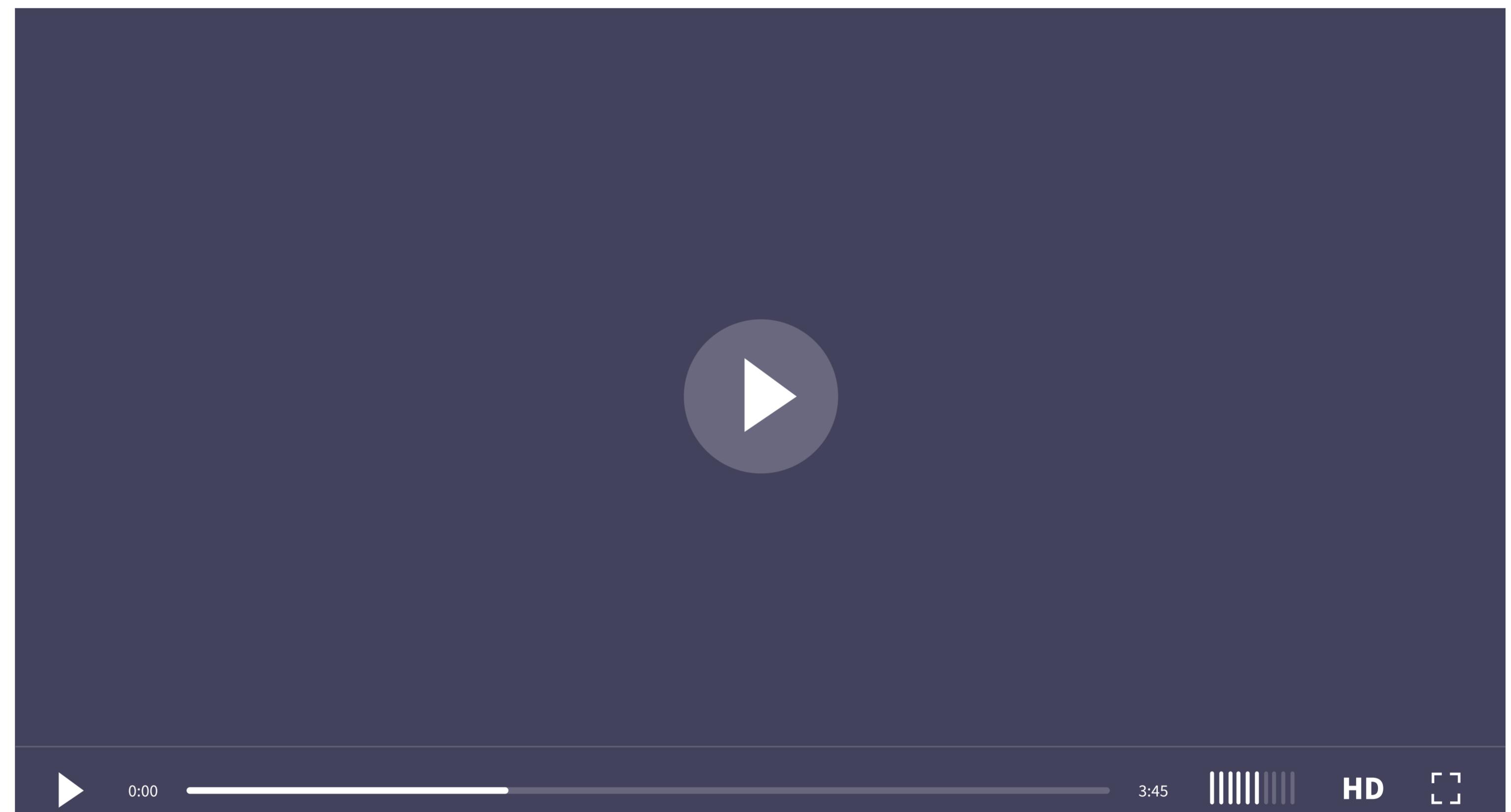
| Session | Date | Time | Number of Guests | Join |
|--------------------|------------|---------|------------------|-------------------------------|
| CS152 Lab 1 | 7/14/2020 | 7:00 PM | 5 | ENTER SESSION |
| Practice robotics | 8/28/2020 | 2:00 PM | 1 | ENTER SESSION |
| Inverse Kinematics | 9/23/2020 | 3:00 PM | 0 | ENTER SESSION |
| robots dancing | 11/23/2020 | 6:00 PM | 3 | ENTER SESSION |
| CS152 Lab 2 | 9/20/2020 | 5:00 PM | 12 | ENTER SESSION |
| Assignment 1 | 9/19/2020 | 1:00 PM | 10 | ENTER SESSION |

Monthly Usage

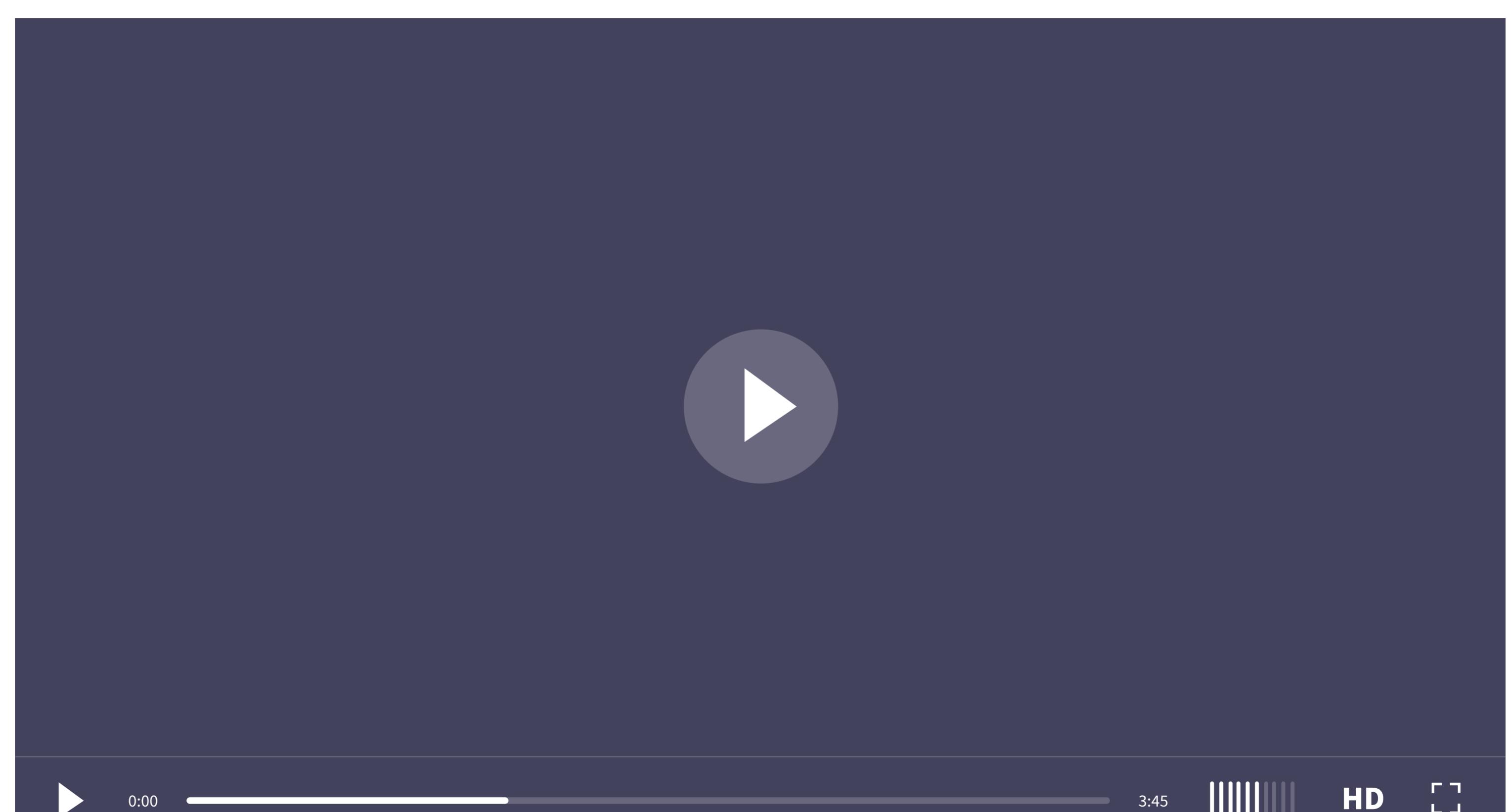


Observe The Lab

Camera 1



Camera 2



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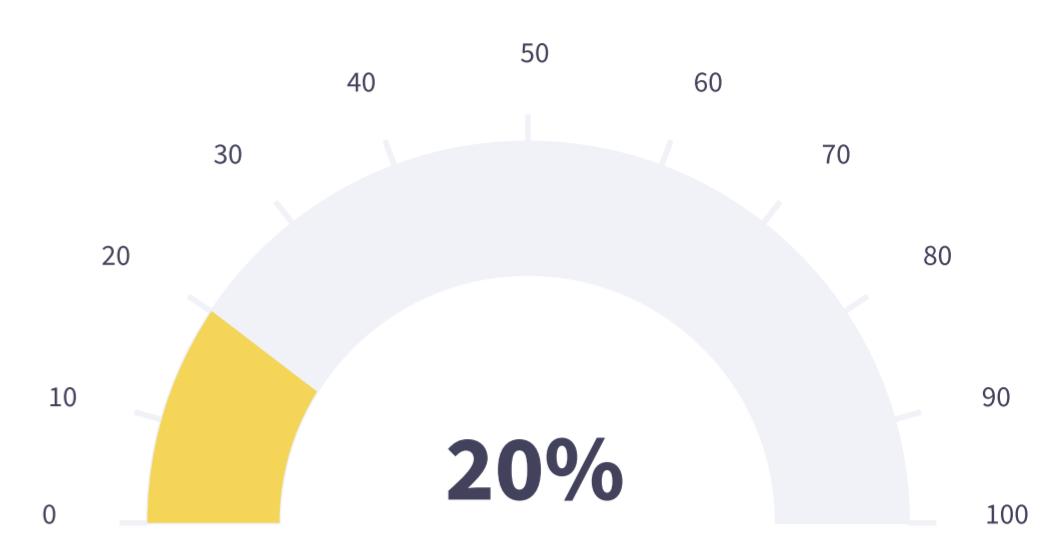
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Logout

Your Upcoming Sessions

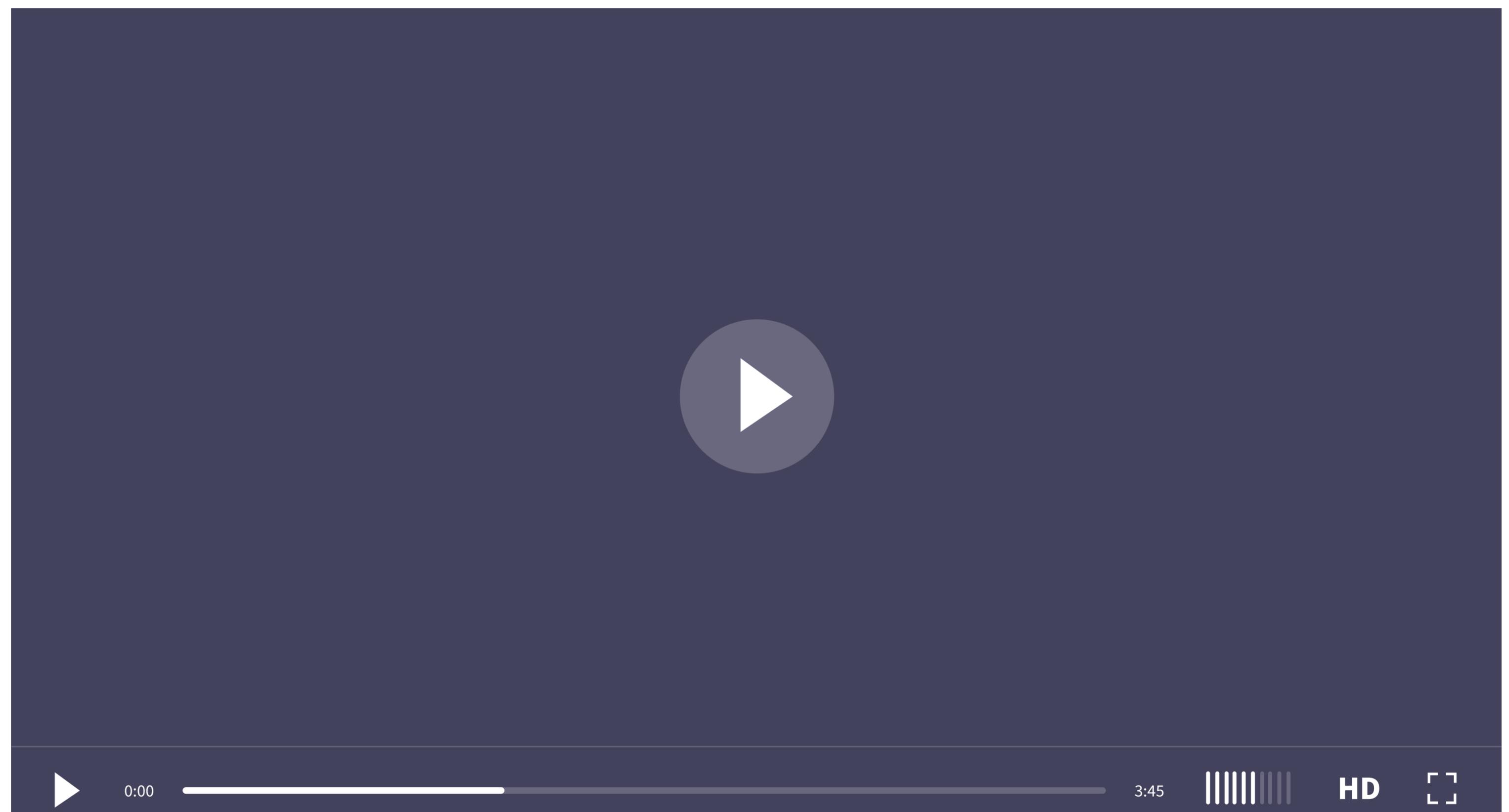
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Monthly Usage

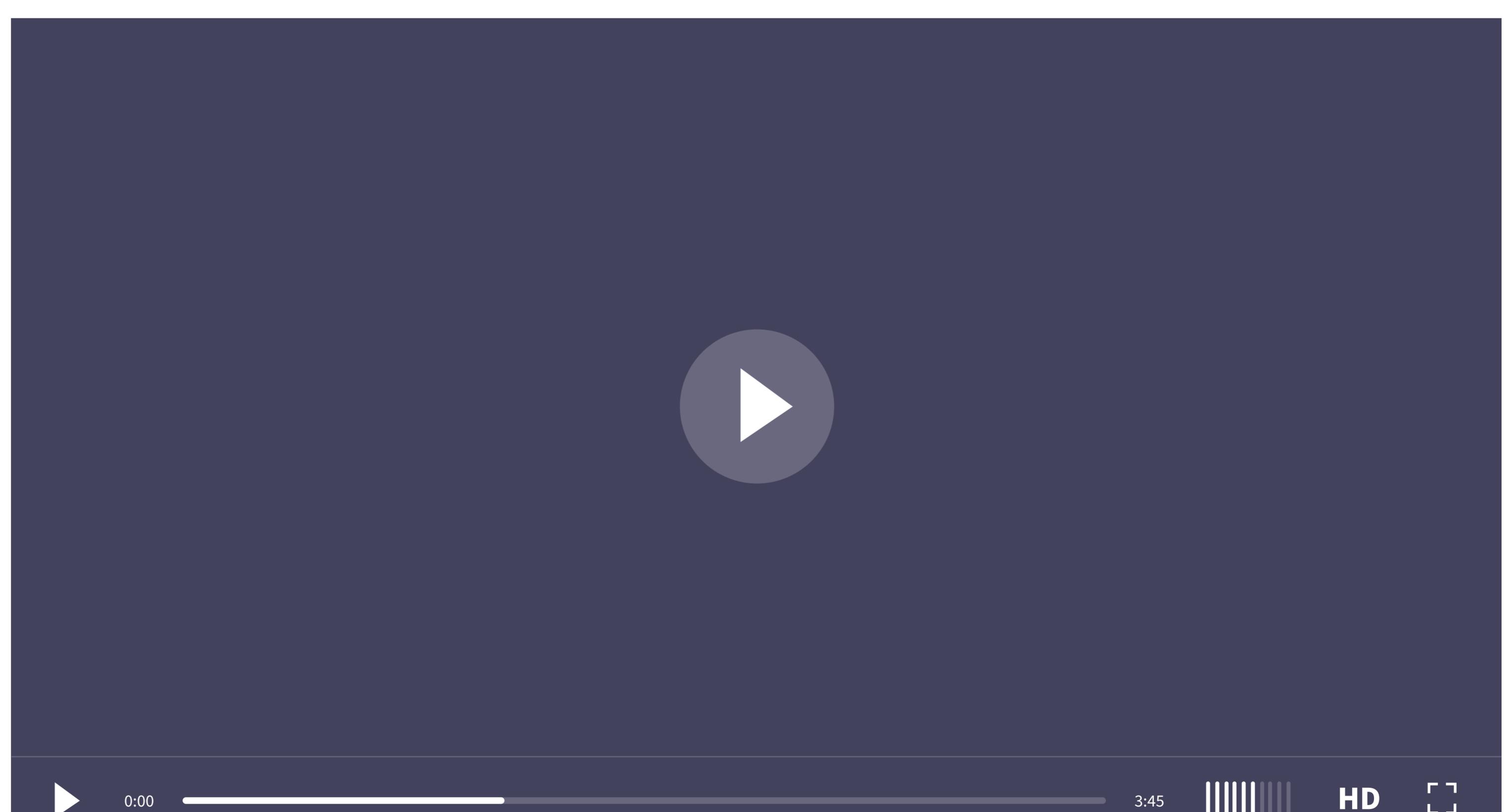


Observe The Lab

Camera 1



Camera 2



Welcome,

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|--------------------|------------|---------|------------------|-------------------------------|
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Notifications

David Lee Invited you for a lab.
4 min ago

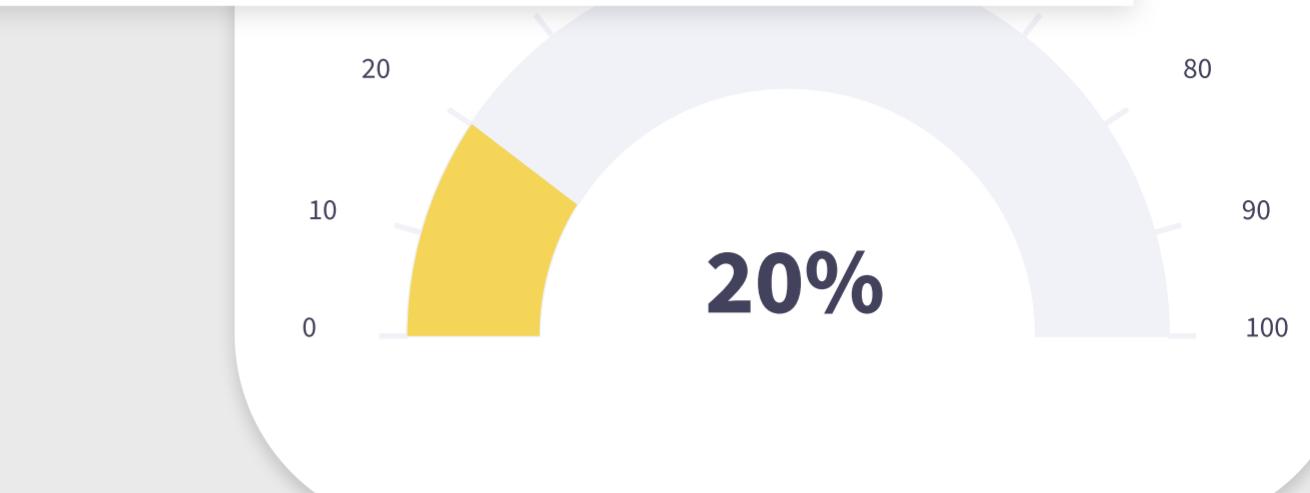
Alex Johnson Cancelled a lab.
4 min ago

Jonathan Chen Invited you for a lab.
4 min ago

Robert Grant Invited you for a lab.
4 min ago

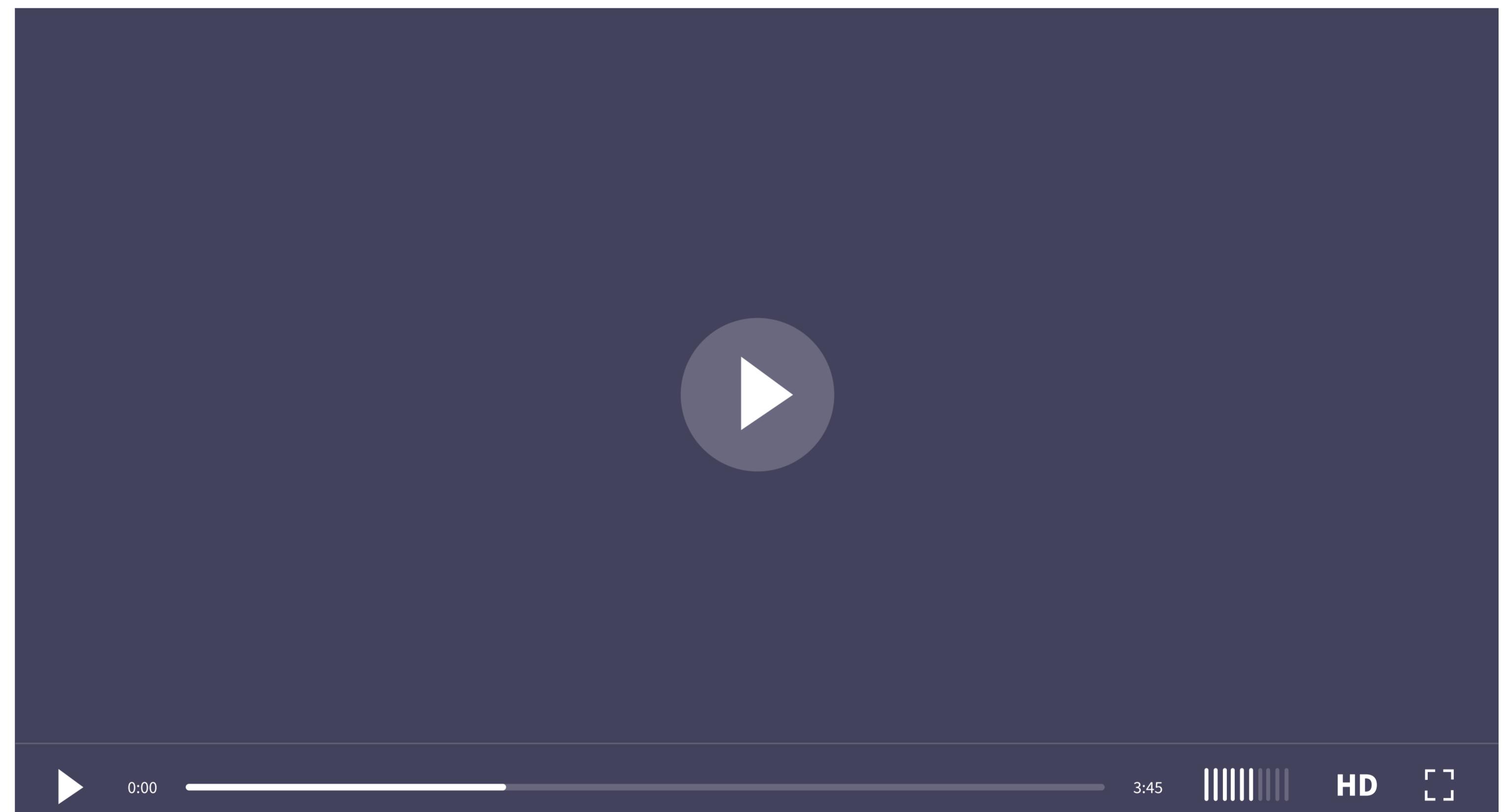
David James changed the lab time.
4 min ago

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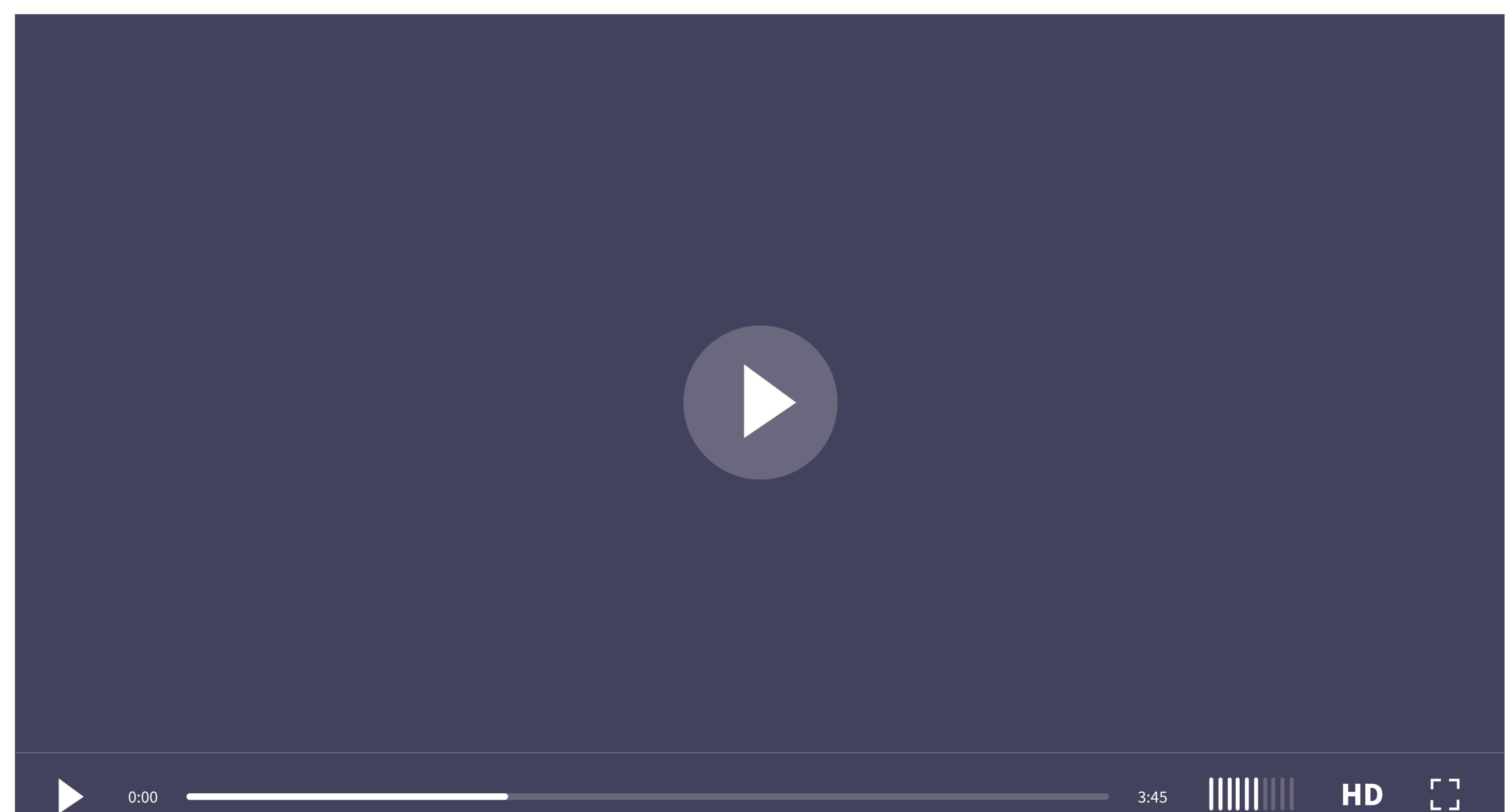


Observe The Lab

Camera 1



Camera 2





Ahmed Kamel

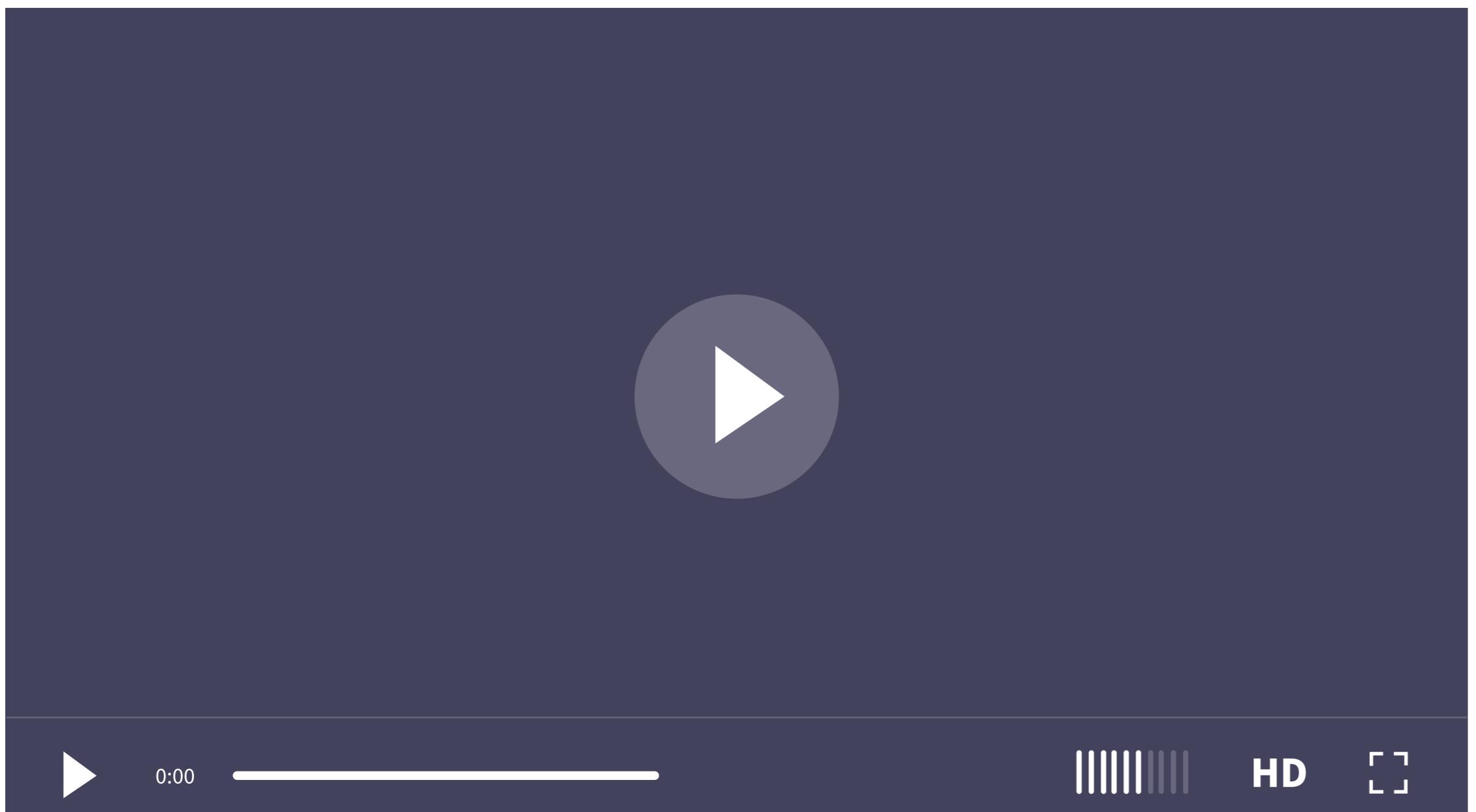


Live Feed

CAM 1

CAM 2

CAM 3



Camera Controls

LIGHTS ON

LIGHTS OFF

Controls

SIMPLE

ADVANCED



Ahmed Kamel



Status : Online

Account setting

Feedback

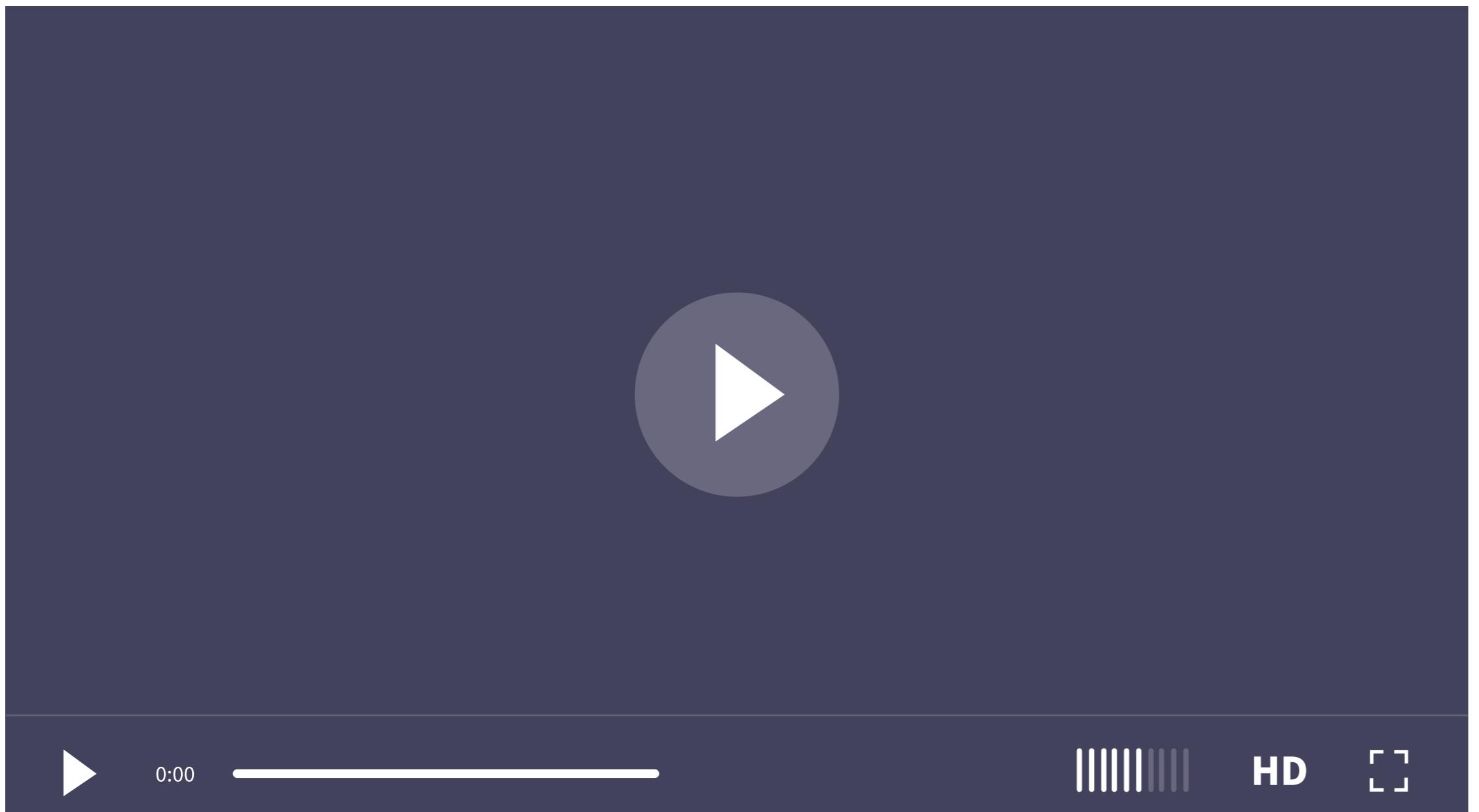
Logout

Live Feed

CAM 1

CAM 2

CAM 3



Camera Controls

LIGHTS ON

LIGHTS OFF

Controls

SIMPLER

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Ahmed Kamel

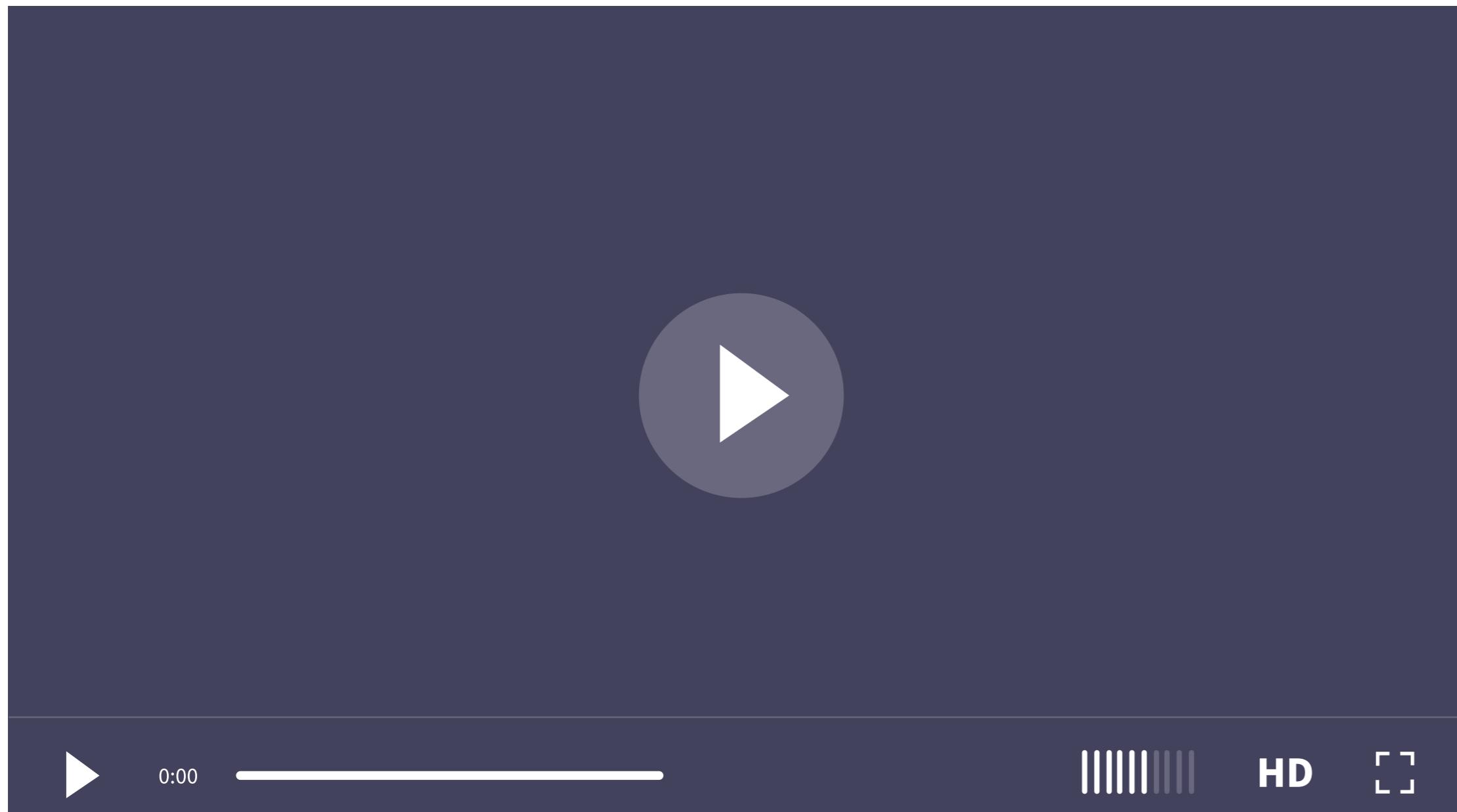


Live Feed

CAM 1

CAM 2

CAM 3



0:00



HD



Camera Controls

LIGHTS ON

LIGHTS OFF

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4 min ago

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Username

A.kamel

Email address

a.kamel@minerva.kgi.edu

Email looks good!

First Name

ex. John

Last Name

ex. Doe

Address

ex. 123, High Street, Phoenix Avenue

City

ex. New York

Country

ex. United States

Postal Code

123456

Postal code is invalid.

About Me

Exepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est eopksio laborum. Sed ut perspiciatis unde omnis istpoe natus error sit voluptatem accusantium doloremque

**UPDATE PICTURE**



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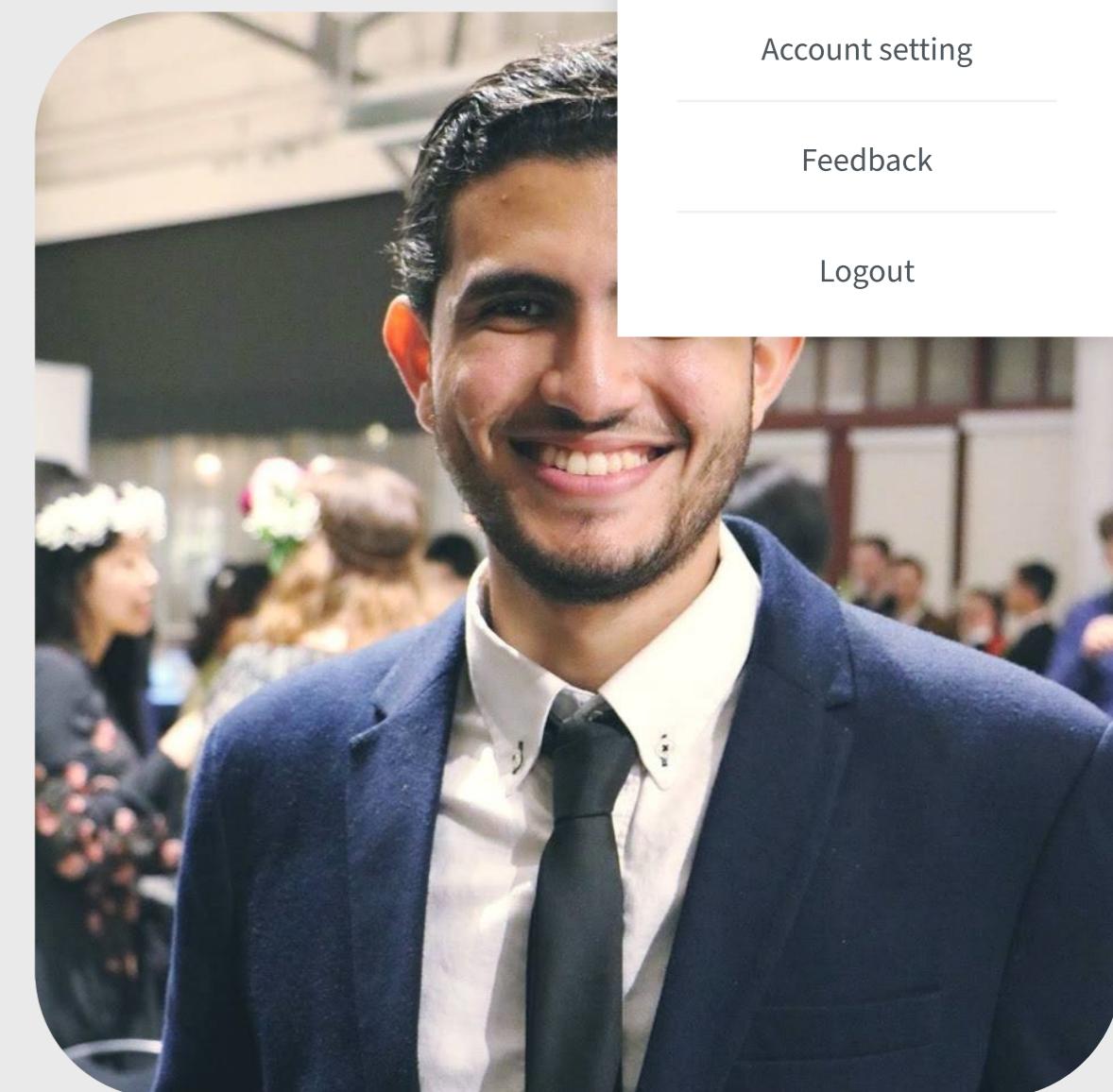
Postal Code

123456

Postal code is invalid.

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**UPDATE PICTURE**



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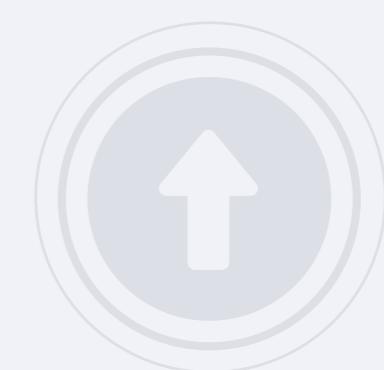
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Calendar

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January 2018

[Month](#) [Week](#) [Day](#) [Agenda](#)

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | 1 | 2 | 3 |

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Dec 31 - Jan 6

[Month](#) [Week](#) [Day](#) [Agenda](#)

| Sun 31/12 | Mon 01/01 | Tue 02/01 | Wed 03/01 | Thu 04/01 | Fri 05/01 | Sat 06/01 |
|-----------|------------|------------|-----------|------------|-----------|--------------------------|
| all day | | Event name | | Event name | | Event name Event name |
| 12:00 AM | | | | | | |
| 2:00 AM | | | | | | |
| 4:00 AM | | | | | | |
| 6:00 AM | | | | | | |
| 8:00 AM | | | | | | |
| | | | | | | |
| 10:00 AM | | | | | | |
| 12:00 PM | | | | | | |
| 2:00 PM | | | | | | |
| 4:00 PM | | | | Event name | | |
| 6:00 PM | | | | | | |
| 8:00 PM | | | | | | |
| 10:00 PM | Event name | | | | | |



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Month Week Day Agenda

Tuesday Jan 2

all day

12:00 AM

2:00 AM

4:00 AM

6:00 AM

8:00 AM

10:00 AM

12:00 PM

2:00 PM

4:00 PM

6:00 PM

8:00 PM

10:00 PM



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January 2018

[Month](#) [Week](#)

| SUN | MON | TUE | WED | THU | FRI | SAT |
|-----|-----|-----|-----|-----|-----|-----|
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | 1 | 2 | 3 |



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January 2018

| SUN | MON | TUE | WED | | | | |
|-----|-----|-----|-----|----|----|----|--|
| 31 | 1 | 2 | 3 | | | | |
| 7 | 8 | 9 | 10 | | | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
| 28 | 29 | 30 | 31 | 1 | 2 | 3 | |

Event name

Event name

Event name

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4 min ago

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4 min ago

**Robert Grant** Invited you for a lab.

4 min ago

**David James** changed the lab time.

4 min ago

N

a

6

13

20

27

3



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New Session

Session Title

ex. CS152 Robotics Session 1

Add Guests

ex. Ahmed Kamel

ADD

Day?

Date Picker

< July 2020 >

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
|----|----|----|----|----|----|----|

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| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
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About The Session

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Time?

5:00 PM

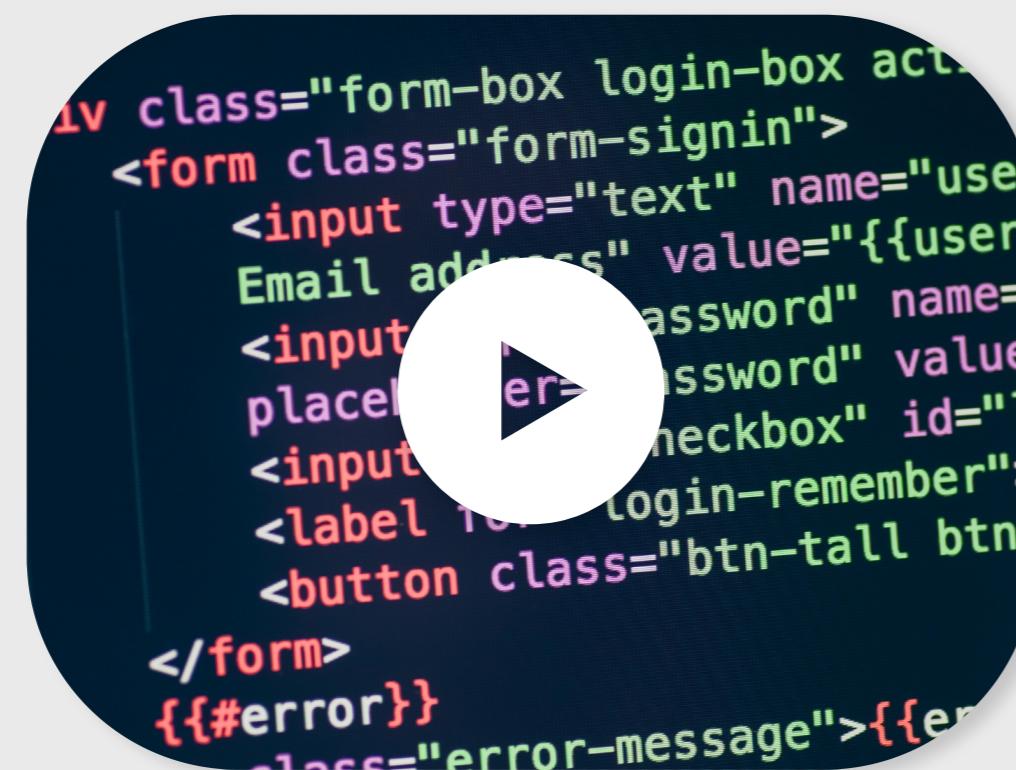
TO

6:00 PM

BOOK SESSION**CANCEL**

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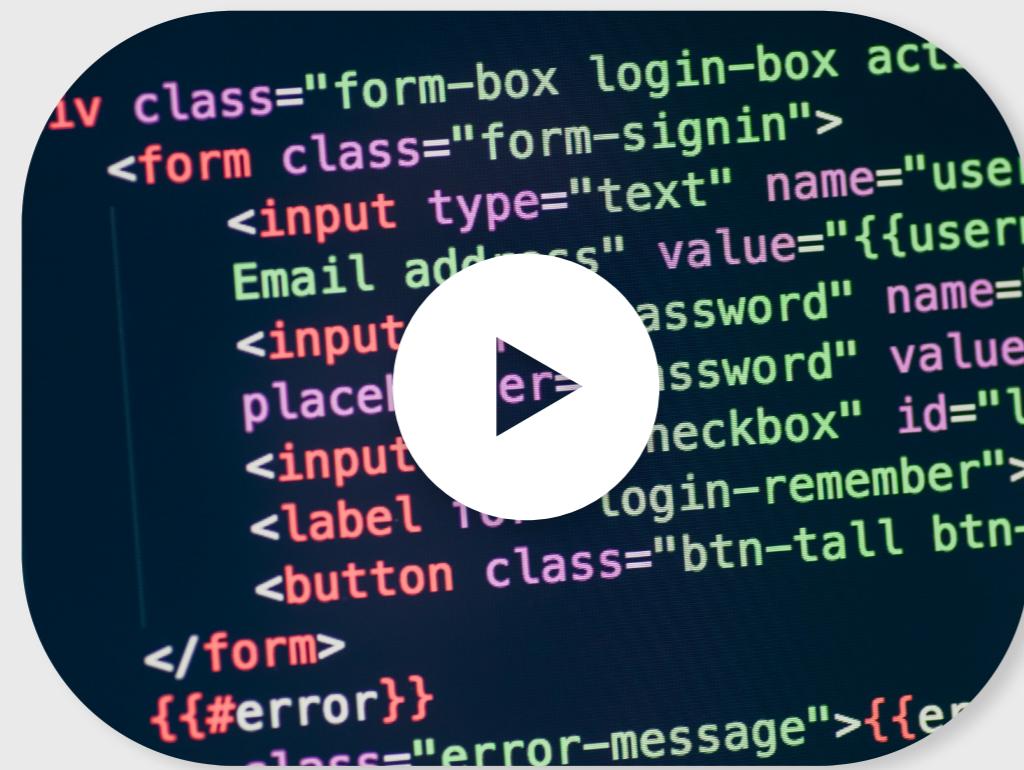
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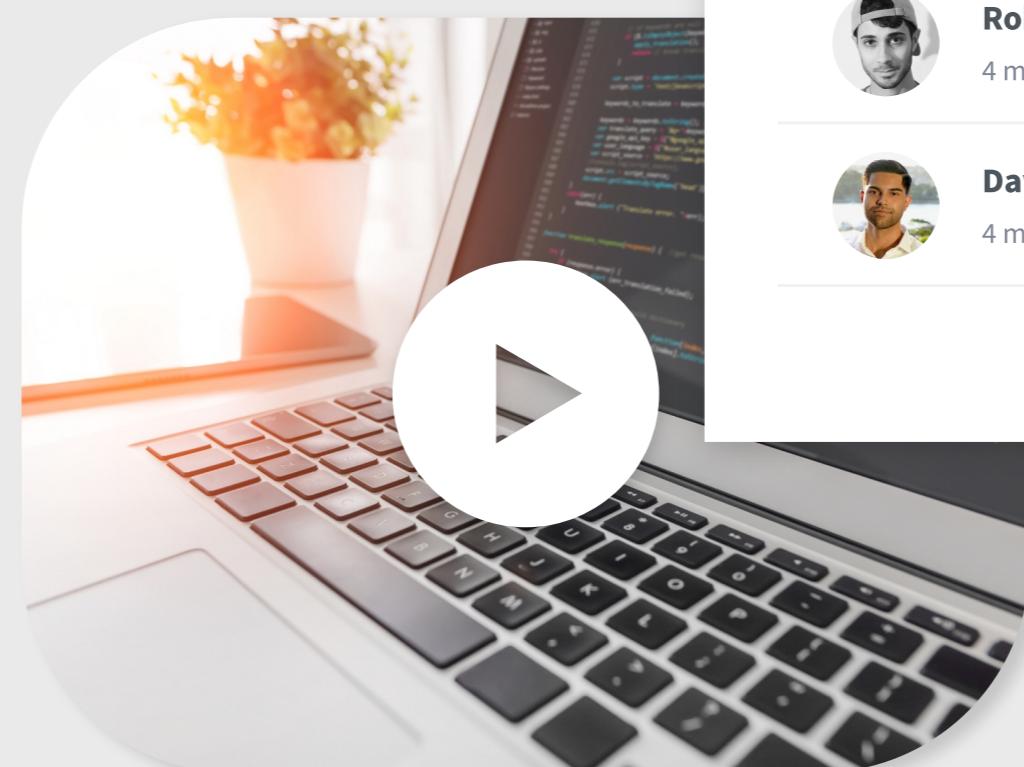
Tutori

```
iv class="form-box login-box active">
<form class="form-signin">
  <input type="text" name="userEmail" placeholder="Email address" value="{{userEmail}}>
  <input type="password" name="userPassword" placeholder="Password" value="{{userPassword}}>
  <input checked="" type="checkbox" id="login-remember">
  <label for="login-remember">Remember me</label>
  <button class="btn-tall btn-primary">Log In</button>
</form>
{{#error}}
  <div class="error-message">{{error}}</div>

```

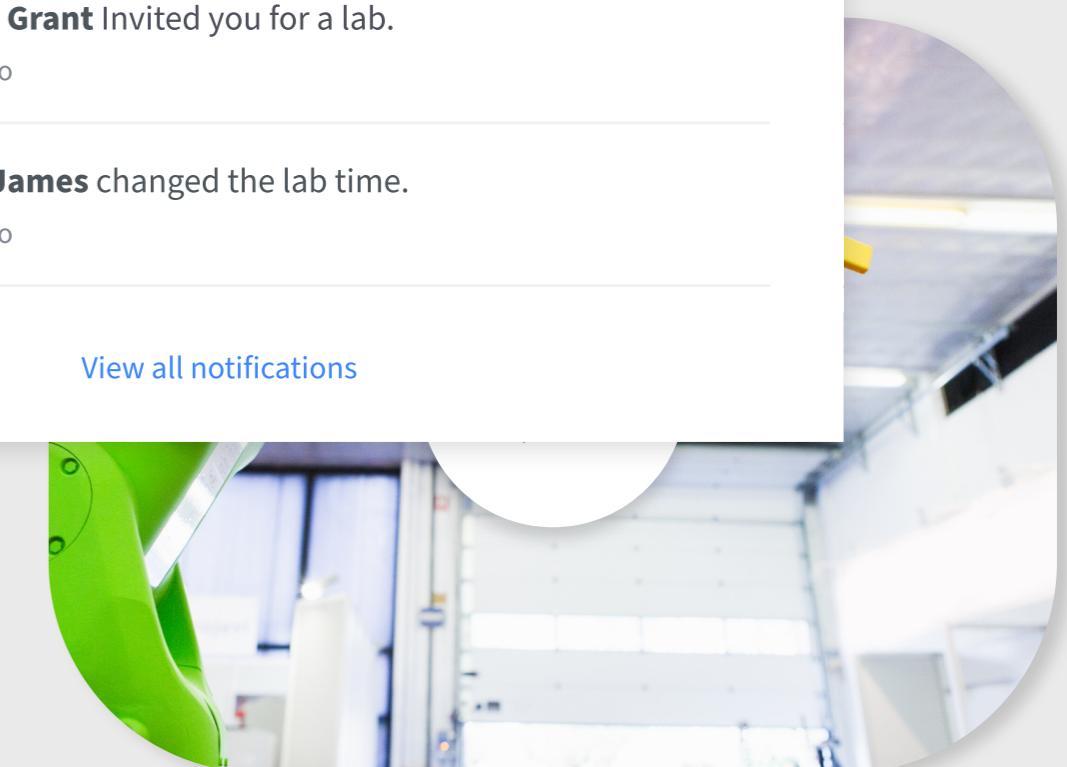
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