What is Function and Object ?

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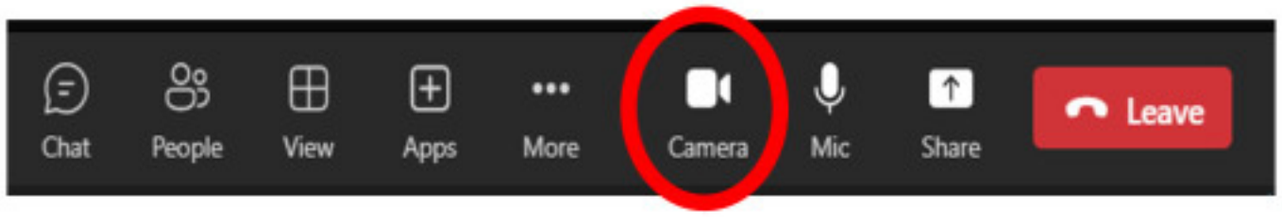
B2W group
Apprenticeships | Training | Recruitment

What we expect you during the session?

Be on time!	Be in a quiet and comfortable space	Be prepared	Be respectful
Be presentable and dress appropriately	Be focused and attentive	Raise your hand or post questions in the chat	Keep the class discussions and be engaged
Mute your microphone when you are not speaking	Turn on your video	**Safeguarding Team:** BeSafe@justit.co.uk	No smoking and eating

Camera Expectations

Before we start... Please have your camera switched on.



This is a mandatory requirement for the duration of the course.

WHY?

You are studying a regulated qualification, your tutor needs to see that it is the right person participating throughout the course.

Our job is to prepare you for work in an age where in almost any job there is likely to be at least some aspect of remote engagement with your employer.

Online learning is to be treated the same way as a classroom learning, you must be physically visible to interact with your tutor and other learners in order to create an engaging group dynamic.

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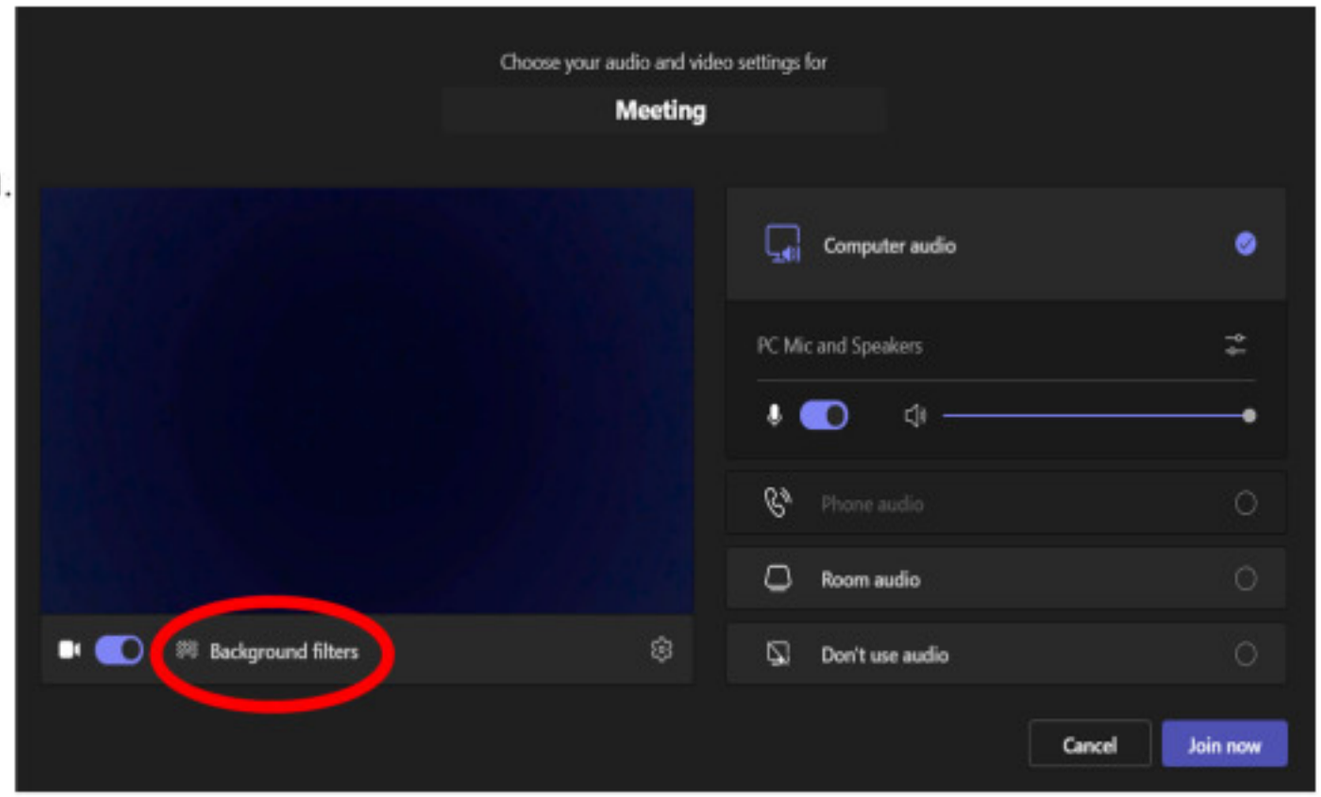
Background filters

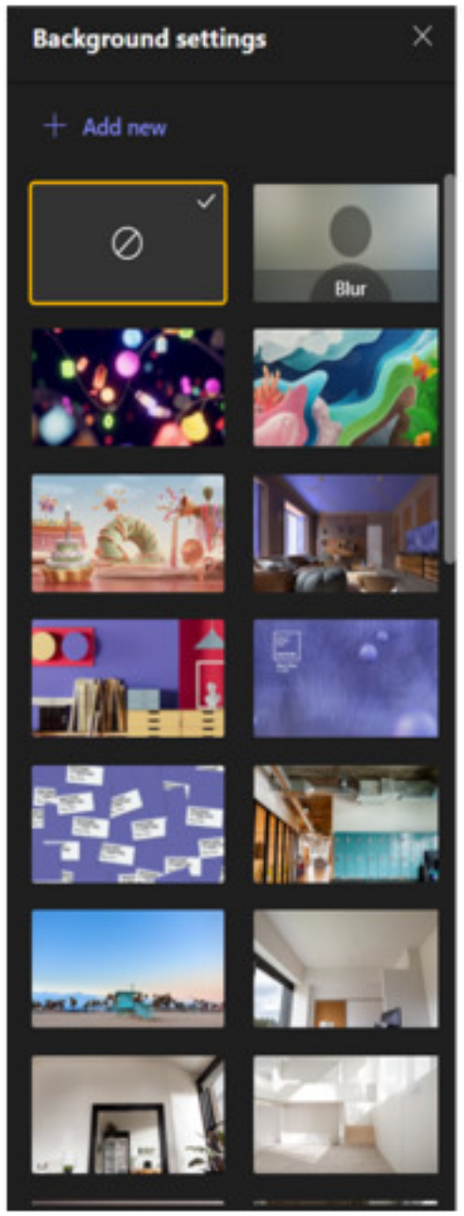
If you do not wish to have your camera displaying your personal environment, Microsoft Teams has a solution to this problem…

Step One: Before you join a Teams video call, click the 'Background Filters' option.

Step Two: On the right-hand side, you can select any of the stock images.

Step Three: The image you choose will then appear in your background on the video call.





If you need any further support in regards to this requirement, please speak to your tutor directly.

Learning Objectives

Intent:

- To explore functions and look at how they work
- To explore object in JavaScript

Implementation:

- Implement functions to solve problems and perform tasks, practicing different ways to declare functions and handle parameters.
- Practice different techniques for simplifying tasks using functions and objects

Impact: Improve learners knowledge on how to reuse code segments, reducing redundancy and improving code maintainability.

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What is function?

Function

- Is a block of code used to perform a specific task
- function is executed when "something" invokes it (calls it)

```
//Function
function hello(){
        console.log("Welcome to JavaScript");
}
hello();
```

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Quiz

Functions in JS

```
function operation(numberOne, numberTwo)
{
  console.log(numberOne*numberTwo);
}
operation(4,5);
```

What will be the output of the code in the picture?

- 20
- 4,5
- operation(4,5)
- numberOne*numberTwo

What will be the output of the below code? function greet(name){ console.log(`Hello, ${name}!`); } gree("John");

- Hello, ${name}!
- Hello, John!
- Hello
- Hello, John

What is the purpose of the return keyword in a JavaScript function?

- To end the function execution
- To pass a value to another function
- To return a value from the function

How do you call a JavaScript function?

- By typing its name and passing arguments in parentheses if any
- By typing its name
- By using the return keyword

What is a parameter in a JavaScript function?

- A keyword used to define a function
- A variable used inside the function
- An argument is passed to the function when it is called

Which keyword is used to define a JavaScript function?

- function
- define
- declare
- all of these

What is a JavaScript function?

- What is a JavaScript function?
- A block of code that performs a specific task
- A loop that repeats a set of instructions

Fill in the Blanks

myFunction ("Hello"); () { .log console function }

_____ _____ _____

_____

_____ _____ _____

_____

What is Object?

- Object is a standalone entity, with properties and type.
- Value pairs separated by commas inside a set off curly braces
- In JavaScript, objects are used to store collections of data in key-value pairs

```
        let person = {
Keys ---{------- name: 'John', ------}--- Values
        {------- age: 20 ------------}
        };
```

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Activity:

Imagine you're creating a program to manage a library. How could you use objects to represent different books with their properties?

Drop your answer in the team's chat!

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What is Object?

```
// Objects
let vehicle={
    model: "A-Class",
    modelYear: "2022",
    palate: "L2022",
    colour:"White"
};
```

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Quiz

Object in JS

Which of the following defines an object in JavaScript?

- {}
- []
- ()
- < >

Which symbol is used to access an object's property?

- .
- :
- ;
- All of these

```
let vehicle={
    model: "A-Class",
    modelYear: "2022",
    palate: "L2022",
    colour:"White"
};
```

How we can access the colour property of the vehicle?

- colour
- vehicle(colour);
- vehicle.colour();
- vehicle.colour;