Congratulations! You passed!

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To pass 80% or higher

Retake the assignment in 7h 53m

Go to next item

1. What HTML5 tag is used to show the contents of a webcam? **1 / 1 point**

- ○
- ○ <webcam>
- ◉ <video>
- ○ <pre>

Correct

2. If I initialize a webcam object like this: **0 / 1 point**

```
const webcam = new Webcam(document.getElementById('wc'));
```

Which code will then start the webcam feed to render in the page?

◉
```
async function init(){await webcam.go();}async function init(){await webcam.go();}
```

○
```
async function init(){await webcam.initialize();}
```

○
```
async function init(){await webcam.setup();}
```

○
```
async function init(){await webcam.start();}
```

Incorrect

3. If I want to create a model that uses transfer learning, with everything in mobilenet up to layer 'foo', and my layers afterwards, how do I do it? Assume this code was used to find layer 'foo' **1 / 1 point**

```
const layer = mobilenet.getLayer('foo');
```

○
```
return tf.model({inputs: mobilenet.input, outputs: layer.outputs});
```

```
return tf.model({inputs: mobilenet.inputs, outputs: layer.outputs});
```

```
return tf.model({inputs: mobilenet.inputs, outputs: layer.output});
```

```
return tf.model({inputs: mobilenet, outputs: layer});
```

Correct

4. If I am transfer learning from a mobilenet, and I want to use my own dense layers after the mobilenet ones, what is the correct syntax to use at <INSERT CODE HERE> **1 / 1 point**

```
model = tf.sequential({
    layers: [
      tf.layers.flatten(<INSERT CODE HERE>),
      tf.layers.dense({ units: 100, activation: 'relu'}),
      tf.layers.dense({ units: 3, activation: 'softmax'})
    ]
});
```

```
{inputShape: mobilenet.outputs[0].shape.slice(1)}
```

```
{inputShape: mobilenet.outputs[1].shape.slice(0)}
```

```
{inputShape: mobilenet.outputs[0].slice(1)}
```

```
{inputShape: mobilenet.outputs[1].slice(0)}
```

Correct

5. If I am using a mobilenet with my own DNN for transfer learning in TensorFLow.js, how do I get a prediction for an image? **1 / 1 point**

- Get a set of prediction embeddings from mobilenet and pass them to your model
- Get a set of prediction embeddings from your model and pass them to mobilenet
- Just pass the prediction to mobilenet, because you've already added your layers to it
- Just pass the prediction to your own model, it already includes the mobilenet layers

Correct

6. If you have a set of predictions returned from model.predict(something) and you want to take the one with the largest probability, how do you do it? **1 / 1 point**

- predictions.sort() then look at the 0th element
- predictions.argMax() then look at the 0th element
- predictions.as1D().argMax(), then look at the 0th element
- predictions[0] contains the one with the largest probability

Correct

7. If you already have a function called predict() in a class called 'foo' which captures a frame from the webcam and predicts it, what's the best way to call it, particularly if you plan to do continuous predictions? **1 / 1 point**

```
tf.tidy(() => foo.predict());
```

```
tf.tidy(foo.predict());
```

```
foo.predict(); tf.tidy();
```

```
foo.predict(tf.tidy());
```

Correct

8. Why is transfer learning a huge advantage, particularly when training in the browser? **1 / 1 point**

- It gives you a smaller model
- It lets you skip training altogether
- It allows you to use already-learned convolutions for distinguishing features, saving training time
- It allows you to use already-learned convolutions for distinguishing features, saving space

Correct