

# CSS3

Let's start!



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# CSS3 Fonts

CSS3 Fonts allow you to control the typeface, size, weight, and style of text on web pages.

## Question 1



Create a CSS rule to set the font of a paragraph to "Arial", sans-serif.

## Solution 1



```
p {  
    font-family: "Arial", sans-serif;  
}
```

# THE @FONT-FACE RULE

The @font-face rule in CSS3 allows you to define custom fonts for use on web pages.

## Question 2:

Use the @font-face rule to include a custom font named "CustomFont" in your stylesheet.



# SOLUTION 2

```
@font-face {  
    font-family: 'CustomFont';  
    src: url('customfont.woff') format('woff');  
}
```

# USING GOOGLE FONTS

Google Fonts provides a wide variety of free and easy-to-use fonts for web developers.

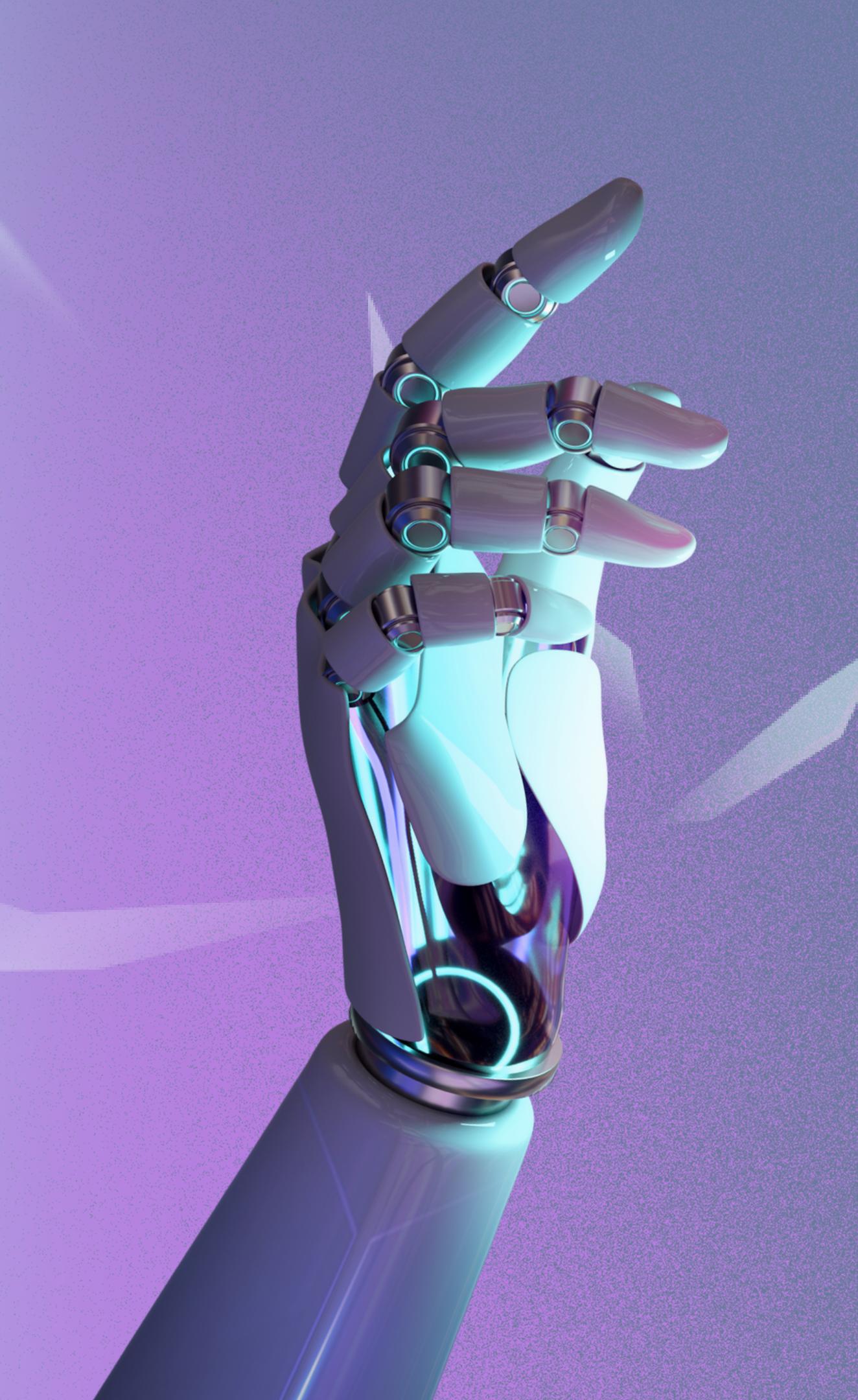
## QUESTION 3

Integrate the "Roboto" font from Google Fonts into your webpage.



# SOLUTION 3

```
<link rel="stylesheet" href="https://fonts.googleapis.com/css?  
family=Roboto">  
<style>  
body {  
    font-family: 'Roboto', sans-serif;  
}  
</style>
```



# CSS3 EFFECTS

## Gradients



CSS3 Gradients allow smooth color transitions, creating visually appealing backgrounds or elements.

## Question 4



Create a linear gradient background from red to blue



# SOLUTION 4

**background: linear-gradient(to right, red, blue);**

# BOX-SHADOW

## Description

The box-shadow property adds shadows to elements, enhancing their visual depth.

## Question 5

Apply a subtle box shadow to a div element.

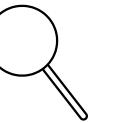
## Solution 5

```
box-shadow: 2px 2px 5px  
#888888;
```

# BORDER-RADIUS

`border-radius` rounds the corners of elements, offering a way to create smooth and rounded shapes.

Question 6



Round the corners of an image element.

Hint:

border-radius: 10px;

# TEXT-SHADOW

Adds shadows to text, providing a stylistic effect

Question 7



Apply a text shadow to the heading text.

Solution 7



```
text-shadow: 2px 2px 4px #888888;
```

# 2D/3D ANIMATION

## Transform

CSS3 Transformations (2D or 3D) modify the appearance of elements.

## Transition

Property enables smooth transitions between different property values.

## CSS Animation (using @keyframes)

CSS3 animations, defined with @keyframes, allow complex animations

# 2D/3D ANIMATION

## Question 8

Rotate an image by 45 degrees

## Question 9

Apply a transition effect to the width of a button over 1 second

## Question 10

Create an animation named "slide" that moves an element from left to right

# 2D/3D ANIMATION

## Solution 8

```
transform: rotate(45deg);
```

## Solution 9

```
transition: width 1s ease-in-out;
```

## Solution 10

```
@keyframes slide {  
  from {  
    left: 0;  
  }  
  to {  
    left: 100px;  
  }  
}
```

# CSS3 FRAMEWORK [BOOTSTRAP]

Bootstrap is a popular front-end framework for building responsive and mobile-first websites quickly.

## Question 11:

Integrate Bootstrap into your HTML document

# SOLUTION 11

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
<title>Bootstrap Example</title>
</head>
<body>
<!-- Bootstrap content goes here --&gt;
&lt;script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"&gt;&lt;/script&gt;
&lt;script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.0.7/dist/umd/popper.min.js"&gt;&lt;/script&gt;
&lt;script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"&gt;&lt;/script&gt;
&lt;/body&gt;
&lt;/html&gt;</pre>
```

# UNDERSTANDING AND USING BOOTSTRAP

Bootstrap provides a set of pre-designed components, utilities, and a responsive grid system.

## Question 12:

Create a responsive navigation bar using Bootstrap.

# SOLUTION 12

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <title>Bootstrap Navigation</title>
</head>
<body>
  <nav class="navbar navbar-expand-lg navbar-light bg-light">
    <a class="navbar-brand" href="#">Navbar</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
```

# SOLUTION 12 [CONTINUE]

```
<div class="collapse navbar-collapse" id="navbarNav">
<ul class="navbar-nav">
<li class="nav-item active">
<a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Features</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Contact</a>
</li>
</ul>
</div>
</nav>

<!-- Bootstrap content goes here -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script src="https://>
```