

In Reference to Code Attached

1. Every personality type has...
 - A. A different random colored background
 - B. The same random colored background
 - C. A background color of #f2f2f2
 - D. The same random color per each personality group
 - The `randomColor()` function sets one random hue per group (analysts, diplomats, explorers, sentinels). All four types in each group are given the *same* color.
2. The website was designed mobile-first.
 - A. True
 - B. False
 - The default layout is a desktop `flex` container with a 4-column grid. The mobile layouts (narrow screens) are applied *after* via media queries (`@media (max-width: 768px), 480px`). That's desktop-first, not mobile-first.
3. How are the personality types displayed on mobile?
 - A. They are in a 4x4 grid
 - B. They are in a 2x8 grid
 - On mobile screens (`max-width: 480px`), the `.personalities` section switches to `grid-template-columns: repeat(2, 1fr)`, meaning 2 columns across and 8 rows down (since there are 16 personality types total).
 - C. They are in one column
 - D. Cannot be determined
4. What is the width of each personality type?
 - A. 90% of the browser window
 - B. 60% of the width of body
 - C. Autocalculated
 - Each `.type` is inside a CSS grid (`grid-template-columns: repeat(4, 1fr)`), which automatically splits the container's 60% width into 4 equal parts. No manual width is set on `.type`
 - D. 200px

5. There is a custom font being applied on the site.
- A. True
- `<link>` in `<head>` loads Montserrat font from Google Fonts.
 - CSS sets `font-family: "Montserrat", sans-serif;` for `body`
- B. False
6. How are the main links at the top of the page aligned relative to one another?
- A. Left aligned, horizontal arrangement
- the links (`ul li`) are set to `display: inline` (horizontal), and there's no centering applied to the `<nav>` or ``, only `text-align: center` on `<header>`.
 - So the nav links stay left aligned by default
- B. Left aligned, vertical arrangement
- C. Center aligned, horizontal arrangement
- D. Center aligned, vertical arrangement
7. In general, how will hyperlink text change when a cursor hovers over it?
- A. Their text will be bold
- B. Their text color will change
- C. Their background color will be red
- D. Their background color will be yellow
- In the CSS, `a:hover` sets `background-color: yellow;` — it does not change text color or boldness
8. From the code, it can be inferred that other web pages associated with this page are located where?
- A. In the same directory as this HTML document
- B. In the same subdirectory as each other
- The links are like `types/analysts.html`, `types/diplomats.html`, meaning all personality pages are grouped inside the same `types/` subdirectory
- C. In separate subdirectories
- D. In separate parent directories
9. How will paragraph text be positioned in relation to the personality types on desktop?
- A. It will be positioned to the right side personalities
- On desktop, `.container` is a flexbox. `.personalities` (left) and `<article>` (right) are laid out side by side, so text is to the right of the personalities.
- B. It will be positioned to the left side of the personalities
- C. It will be positioned beneath the personalities

10. How is the first-level heading of the page styled?
- A. Montserrat and bold
 - B. Arial and italicized
 - In the external CSS, `body` is set to `Arial`.
 - Also, `#title { font-style: italic; }` makes it italic.
 - C. Montserrat and normal
 - D. Arial and normal
11. To have the footer appear at the very bottom of the browser window, we would need to change its position to...
- A. Static
 - B. Absolute
 - To stick the footer at the very bottom of the window (even with little content), you'd need `position: absolute; bottom: 0;`.
 - C. Relative
 - D. It's already positioned correctly at the bottom
12. The Javascript contains no errors.
- A. True
 - B. False
13. Clicking on each personality changes what part of the HTML?
- A. The footer text
 - When you click on a personality type, it runs `introverts()` or `extroverts()`, which updates the `` inside the footer.
 - B. The title text
 - C. The text of the element itself
 - D. It doesn't change the text of anything
14. The query selector for the ID "credit" can be replaced with which following line of code?
- A. `document.querySelector("span")`
 - Since `` is the only `` on the page, `document.querySelector("span")` would select it successfully.
 - B. `document.querySelector("credit")`
 - C. `document.querySelector("footer")`
 - D. All of the above
 - E. None of the above
15. How will the list of personality dichotomies be styled?
- A. Numbered, horizontal arrangement
 - B. Bulleted, horizontal arrangement

C. Numbered, vertical arrangement

- The list uses ``, making it numbered and stacking vertically by default.

D. Bulleted, vertical arrangement

16. There are no DOM Event Listeners utilized in the code

A. True

- There are no JavaScript event listeners like `.addEventListener()` used — only inline `onclick` attributes in the HTML.

B. False

```
<!DOCTYPE html>
    index.html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Myers-Briggs Personalities</title>
    <link rel="stylesheet" href="styles.css">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;700&display=swap" rel="stylesheet">
    <style>
        body {font-family: "Montserrat", sans-serif;}
        #title {font-style: italic;}
    </style>
</head>

<body>
    <header>
        <h1 id="title">Myers-Briggs Personality Types</h1>
    </header>
    <nav>
        <ul>
            <li><a
href="types/analysts.html">Analysts</a></li>
            <li><a
href="types/dipomats.html">Diplomats</a></li>
            <li><a
href="types/sentinels.html">Sentinels</a></li>
            <li><a
href="types/explorers.html">Explorers</a></li>
        </ul>
    </nav>
    <main class="container">
        <section class="personalities">
            <div class="type analyst" id="intj"
onclick="introverts()">INTJ</div>
            <div class="type diplomat" id="infp"
onclick="introverts()">INFP</div>
            <div class="type diplomat" id="infj"
onclick="introverts()">INFJ</div>
            <div class="type analyst" id="intp"
onclick="introverts()">INTP</div>
            <div class="type sentinel" id="istj"
onclick="introverts()">ISTJ</div>
            <div class="type sentinel" id="isfj"
onclick="introverts()">ISFJ</div>
            <div class="type explorer" id="istp"
onclick="introverts()">ISTP</div>
            <div class="type explorer" id="isfp"
onclick="introverts()">ISFP</div>
            <div class="type analyst" id="entj"
onclick="extroverts()">ENTJ</div>
            <div class="type diplomat" id="enfj"
onclick="extroverts()">ENFJ</div>
```

```

        <div class="type analyst" id="entp"
onclick="extroverts()">ENTP</div>
        <div class="type diplomat" id="enfp"
onclick="extroverts()">ENFP</div>
        <div class="type sentinel" id="estj"
onclick="extroverts()">ESTJ</div>
        <div class="type sentinel" id="esfj"
onclick="extroverts()">ESFJ</div>
        <div class="type explorer" id="estp"
onclick="extroverts()">ESTP</div>
        <div class="type explorer" id="esfp"
onclick="extroverts()">ESFP</div>
    </section>
    <article>
        MBTI classifies personalities based on four
dichotomies, each consisting of two opposite preferences:
        <ol>
            <li>Extraversion (E) / Introversion (I)</li>
            <li>Sensing (S) / Intuition (N)</li>
            <li>Thinking (T) / Feeling (F)</li>
            <li>Judging (J) / Perceiving (P)</li>
        </ol>
    </article>
</main>

<footer>
    <p>© 2023 <span id=credit>Myers-Briggs
Personalities</span></p>
</footer>

<script>
    let diplomats =
document.querySelectorAll(".diplomat");
    let explorers =
document.querySelectorAll(".explorer");
    let analysts = document.querySelectorAll(".analyst");
    let sentinels =
document.querySelectorAll(".sentinel");
    let credit = document.getElementById("credit");

    function introverts(){
        credit.innerText = "Introverts are the best";
    }

    function extroverts(){
        credit.innerText = "Extroverts are the best";
    }

    function randomColor(){
        let randomHue = Math.floor(Math.random(0, 1) *
360);
        diplomats[0].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        diplomats[1].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        diplomats[2].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";

```

```

        diplomats[3].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";

        randomHue = Math.floor(Math.random(0, 1) * 360);
        explorers[0].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        explorers[1].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        explorers[2].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        explorers[3].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";

        randomHue = Math.floor(Math.random(0, 1) * 360);
        analysts[0].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        analysts[1].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        analysts[2].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        analysts[3].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";

        randomHue = Math.floor(Math.random(0, 1) * 360);
        sentinels[0].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        sentinels[1].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        sentinels[2].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
        sentinels[3].style.backgroundColor = "hsl(" +
randomHue + ", 100%, 50%)";
    }

    randomColor();
</script>
</body>
</html>

```

<pre> body { font-family: Arial, sans-serif; width: 90%; margin: auto; padding: 0; } header { font-family: Arial, sans-serif; </pre>	<pre> a:hover{ background-color : yellow; } a:active{ font-weight: bolder; } .personalities { display: grid; </pre>
---	---

```
padding:
10px 0;
text-align:
center;
}

footer {
text-align:
center;
margin-top:
50px;
}

.container {
display:
flex;
justify-content:
space-between;
}

ul {
padding: 0;
margin-bottom:
20px;
}

ul li {
display:
inline;
list-style-type:
none;
margin-right:
20px;
}

a, a:visited{
text-decoration:
none;
color:
black;
}

ul li:hover{
background-color
: red;
}

grid-template-co
lums: repeat(4,
1fr);
width: 60%;
}

article {
width: 37%;
}

.type {
background-color
: #f2f2f2;
border: 2px
solid white;
padding:
20px;
text-align:
center;
}

.type:hover{
font-weight:
bolder;
}

@media
(max-width:
768px) {
.container{
display:
block;
}

.personalities{
width:
100%;
margin-bottom:
20px;
}

article{
width:
100%;
}

}

@media
(max-width:
480px) {

.personalities {
display:
grid;

grid-template-co
lums: repeat(2,
1fr);
```



```
    }  
    body {  
        width:  
100%;  
        padding:  
10px;  
    }  
}
```