Explanation of CSS Media Queries

This document provides an overview of the CSS code that utilizes media queries to create responsive designs for different screen sizes. Media queries allow the application of specific styles based on the viewport width, enhancing the user experience across various devices.

Media Queries Breakdown

1. *Media Query for Max Width 990px*

```
1    @media(max-width:990px){
2        html{
3            font-size: 55.5%;
4    }
5        .home{
6            flex-flow: column-reverse;
7            padding: 8rem 0;
8             padding-top: 15rem;
9        }
10   }
```

◆ Purpose: Adjusts the font size and layout for devices with a maximum width of 990 pixels.
◆ Styles:
  ➢ Sets the base font size to 55.5% of the default.
  ➢ Changes the '.home' section to a column-reverse flex layout and modifies padding.

2. *Media Query for Max Width 700px*

```css
13    @media(max-width:700px){
14        html{
15            font-size: 50.5%;
16        }
17        .home img{
18            height: 35rem;
19            width: 35rem;
20        }
21        .home{
22            padding: 8rem 0;
23        }
24        section{
25            padding: 1rem;
26        }
27        .header{
28            position: relative;
29            padding: 0;
30        }
31        .header .logo,
32        .header .menu{
33            padding: 1rem;
34        }
35        .menu i{
36            display: flex;
37        }
38        .header .navbar.active{
39            display: grid;
40        }
41        .header .navbar{
42            position: absolute;
43            top: 7rem;
44            display: none;
45            text-align: center;
46            justify-content: center;
47            background-color: var(--main-color);
48            width: 100%;
49            gap: 2rem;
50            padding: 1rem;
51        }
52        .header .navbar a#Home{
53            color: var(--text-color);
54            text-decoration: none;
55        }
56        .header .navbar a{
57            width: 100%;
58            padding: 1rem;
59        }
60        .header .navbar a:hover,
61        .header .navbar a#Home:hover
62        {
63            background-color: var(--white);
64            color: var(--main-color);
65            text-decoration: none;
66
67
68        }
69    }
```

◆ Purpose: Further refines styles for devices with a maximum width of 700 pixels.
◆ Styles:
  ➢ Decreases the font size to 50.5%.
  ➢ Adjusts image dimensions in the '.home' section.
  ➢ Modifies padding for sections and the header.
  ➢ Configures the navigation bar to be displayed as a grid when active.

3. *Media Query for Max Width 450px*

```css
70   @media(max-width:450px){
71
72       .home .content p{
73           width: 35rem;
74       }
75       .education .timeline-items{
76           display: grid;
77       }
78       .contact .form-container form{
79           display: grid;
80       }
81       .contact .form-container form .inputs,
82       .contact .form-container form .text{
83       width: 100%;
84   }
85   .contact .form-container form .inputs .input,
86   .contact .form-container form .text textarea{
87       width: 100%;
88   }
89   .contact{
90       padding: 1rem 0;
91   }
92   }
```

◆ Purpose: Targets very small devices with a maximum width of 450 pixels.

◆ Styles:
  ➢ Ensures paragraphs in the '.home' section are responsive.
  ➢ Configures the '.education' timeline items and contact form to display as grids.
  ➢ Sets input fields to take full width.

4. *Media Query for Max Width 550px*

```css
1   @media(max-width:550px) {
2       .home .content h1 {
3           font-size: 2.5rem;
4       }
5   }
6
```

◆ Purpose: Adjusts the font size of headings in the '.home' section for devices with a maximum width of 550 pixels.

5. *Media Query for Max Width 768px*

```css
@media (max-width: 768px) {
    html {
      font-size: 55%;
    }
    .home {
      flex-direction: column;
      padding-top: 10rem;
    }
    .home img {
      height: 30rem;
      width: 30rem;
    }
    .education .timeline-items::before {
      left: 1rem;
    }
    .education .timeline-items .timeline-item:nth-child(odd),
    .education .timeline-items .timeline-item:nth-child(even) {
      padding: 0 2rem;
      text-align: left;
    }
    .contact .form-container form {
      flex-direction: column;
}

    .contact .form-container form .inputs,
    .contact .form-container form .text {
      width: 100%;
    }
  }
```

◆ Purpose: Provides additional adjustments for devices with a maximum width of 768 pixels.

◆ Styles:
  ➢ Sets the font size to 55%.
  ➢ Changes the layout of the '.home' section and image sizes.
  ➢ Adjusts padding and alignment for timeline items and contact forms.

Conclusion

The provided CSS code effectively utilizes media queries to create a responsive design that adapts to various screen sizes. By adjusting font sizes, layouts, and element dimensions, the design ensures a user-friendly experience across devices.