**CSS RWD (Responsive Web Design)** is a design approach that makes websites look and function well on all devices—desktops, tablets, and phones—using **flexible layouts**, **media queries**, and **fluid images**.

**✅ Key Concepts of CSS RWD**

**1. Viewport Meta Tag**

Ensures proper scaling on mobile devices:

<meta name="viewport" content="width=device-width, initial-scale=1.0">

**2. Fluid Layout (Percent-based Widths)**

Use percentages instead of fixed widths:

.container {

width: 100%;

max-width: 1200px;

margin: auto;

padding: 0 20px;

}

**3. Responsive Media (Images & Videos)**

Make media scale with screen size:

img, video {

max-width: 100%;

height: auto;

}

**4. Media Queries**

Apply different styles at specific breakpoints:

/\* Mobile First \*/

body {

font-size: 16px;

}

@media (min-width: 768px) {

body {

font-size: 18px;

}

}

@media (min-width: 1024px) {

body {

font-size: 20px;

}

}

**5. Flexible Grid Layouts**

Use Flexbox or CSS Grid to adapt to screen sizes.

**🟦 Flexbox Example:**

.flex-container {

display: flex;

flex-wrap: wrap;

gap: 1rem;

}

.flex-item {

flex: 1 1 100%;

}

@media (min-width: 768px) {

.flex-item {

flex: 1 1 48%;

}

}

@media (min-width: 1024px) {

.flex-item {

flex: 1 1 30%;

}

}

**🟦 Grid Example:**

css

CopyEdit

.grid {

display: grid;

grid-template-columns: 1fr;

gap: 1rem;

}

@media (min-width: 768px) {

.grid {

grid-template-columns: repeat(2, 1fr);

}

}

@media (min-width: 1024px) {

.grid {

grid-template-columns: repeat(4, 1fr);

}

}