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Web Programming UNPAS

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CSS Grid

Properties

CSS Grid Properties

CONTAINER

- grid-template-columns
- grid-template-rows
- grid-auto-columns
- grid-auto-rows
- grid-auto-flow
- grid-template-areas
- grid-template
- grid-column-gap
- grid-row-gap
- grid-gap
- grid
- justify-items
- align-items
- place-items
- justify-content
- align-content
- place-content

ITEM

- grid-column-start
- grid-column-end
- grid-row-start
- grid-row-end
- grid-column
- grid-row
- grid-area
- justify-self
- align-self
- place-self

CSS Grid Properties

- grid-template-columns
- grid-template-rows
- grid-auto-columns
- grid-auto-rows
- grid-auto-flow
- grid-template-areas
- grid-template
- grid-column-gap
- grid-row-gap
- grid-gap
- grid

- justify-items
- align-items
- place-items
- justify-content
- align-content
- place-content

CSS Grid Properties

- **grid-template-columns**
- **grid-template-rows**
- **grid-auto-columns**
- **grid-auto-rows**
- **grid-auto-flow**
- grid-template-areas
- grid-template
- grid-column-gap
- grid-row-gap
- grid-gap
- grid

- justify-items
- align-items
- place-items
- justify-content
- align-content
- place-content

grid-template-columns & grid-template-rows

Mendefinisikan kolom / baris dengan cara menuliskan nilai dipisahkan oleh spasi. Nilai merepresentasikan ukuran **grid track** dan spasi merepresentasikan **grid line**

```css
.container {
  display: grid;
  grid-template-columns: <track-size> ... | <line-name> <track-size> ... ;
  grid-template-rows: <track-size> ... | <line-name> <track-size> ... ;
}
```

```
.container {
  display: grid;
  grid-template-columns: <track-size> ... | <line-name> <track-size> ...;
  grid-template-rows: <track-size> ... | <line-name> <track-size> ...;
}
```

- **`<track-size>`** : bisa berupa **px**, **%**, **auto**, atau **fr** (fraction)

- **`<line-name>`** : nama yang bisa diberikan pada track

```
<div class="container">
  <div class="item">1</div>
  <div class="item">2</div>
  <div class="item">3</div>
  <div class="item">4</div>
  <div class="item">5</div>
  <div class="item">6</div>
  <div class="item">7</div>
  <div class="item">8</div>
  <div class="item">9</div>
</div>
```

```css
.container {
  width: 600px;
  margin: 50px auto;
  display: grid;
  grid-template-columns: 25% auto 50px;
  grid-template-rows: 50px 100px auto;
}
```

Explicit & Implicit Grid

```html
<div class="container">
  <div class="item">1</div>
  <div class="item">2</div>
  <div class="item">3</div>
  <div class="item">4</div>
  <div class="item">5</div>
  <div class="item">6</div>
  <div class="item">7</div>
  <div class="item">8</div>
  <div class="item">9</div>
</div>
```

```css
.container {
  width: 600px;
  margin: 50px auto;
  display: grid;
  grid-template-columns: 25% auto 50px;
  grid-template-rows: 50px 100px auto;
}
```

Auto Columns & Auto Rows

grid-auto-columns & grid-auto-rows

Mengatur ukuran **grid track** yang tidak dituliskan pada **grid-template** (**implicit track**)

```css
.container {
  grid-auto-columns: <track-size>;
  grid-auto-rows: <track-size>;
}
```

Auto Flow

grid-auto-flow

Mengatur penempatan item / cell pada **grid track,**
termasuk yang ditulis secara **implicit**

```css
.container {
    grid-auto-flow: row | column | row dense | column dense;
}
```

Grid Values

```css
.container {
  display: grid;
  grid-template-columns: <track-size> ... | <line-name> <track-size> ...;
  grid-template-rows: <track-size> ... | <line-name> <track-size> ...;
}
```

- **`<track-size>`** : bisa berupa **px**, **%**, **auto**, atau **fr** (fraction)

- **`<line-name>`** : nama yang bisa diberikan pada track

Grid Line Name

```css
.container {
  display: grid;
  grid-template-columns: <track-size> ... | <line-name> <track-size> ...;
  grid-template-rows: <track-size> ... | <line-name> <track-size> ...;
}
```

- **`<track-size>`** : bisa berupa **`px`**, **`%`**, **`auto`**, atau **`fr`** (fraction)

- **`<line-name>`** : nama yang bisa diberikan pada track

```html
<div class="container">
  <div class="item">1</div>
  <div class="item">2</div>
  <div class="item">3</div>
  <div class="item">4</div>
  <div class="item">5</div>
  <div class="item">6</div>
  <div class="item">7</div>
  <div class="item">8</div>
  <div class="item">9</div>
</div>
```

```css
.container {
  width: 600px;
  margin: 50px auto;
  display: grid;
  grid-template-columns: [awal] 25% [kolom2] auto [kolom3] 50px [empat];
  grid-template-rows: [baris-awal] 50px [b2] 100px [b3] auto [b-akhir];
}
```

fr (Fraction)

```css
.container {
  display: grid;
  grid-template-columns: <track-size> ... | <line-name> <track-size> ...;
  grid-template-rows: <track-size> ... | <line-name> <track-size> ...;
}
```

- **`<track-size>`** : bisa berupa **px**, **%**, **auto**, atau **fr** (fraction)

- **`<line-name>`** : nama yang bisa diberikan pada track

```html
<div class="container">
  <div class="item">1</div>
  <div class="item">2</div>
  <div class="item">3</div>
  <div class="item">4</div>
  <div class="item">5</div>
  <div class="item">6</div>
  <div class="item">7</div>
  <div class="item">8</div>
  <div class="item">9</div>
</div>
```
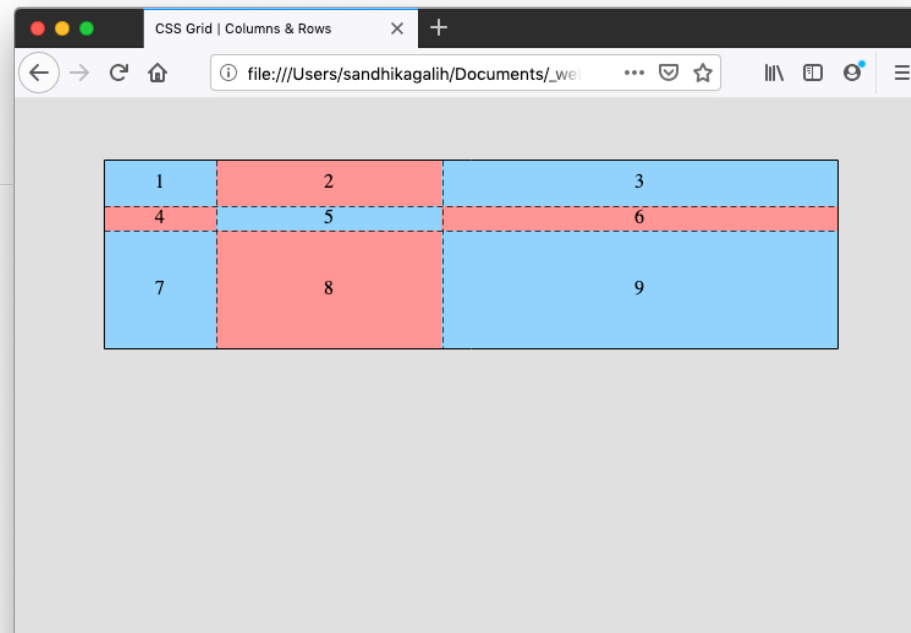
```css
.container {
  width: 600px;
  margin: 50px auto;
  display: grid;
  grid-template-columns: 1fr 2fr 3.5fr;
  grid-template-rows: 2fr 1fr 5fr;
}
```

selesai.

next?

Special Function & Keywords

- `repeat()`

- `min-content & max-content`

- `minmax()`

- `auto-fill & auto-fit`

terimakasih.

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