

# CSS Layout

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## Float

- 박스를 왼쪽 혹은 오른쪽으로 이동시켜 텍스트를 포함 인라인 요소들이 주변을 wrapping 하도록 함
- 요소가 Normal flow를 벗어나도록함

## Float 속성

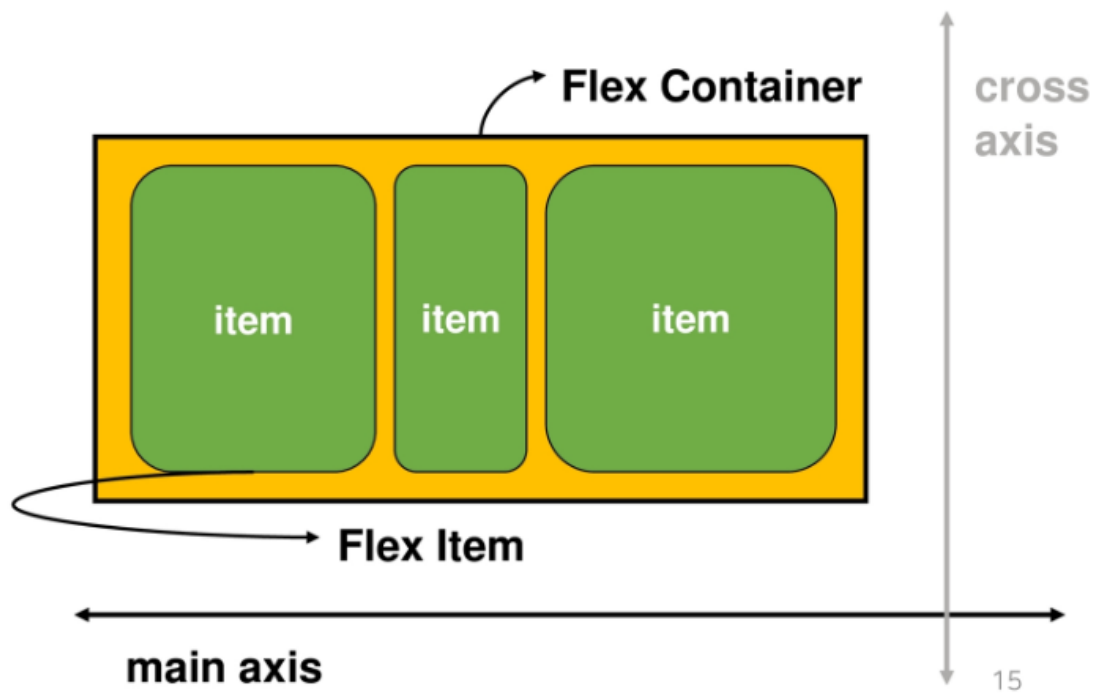
- none: 기본값
- left: 요소를 왼쪽으로 띄움
- right: 요소를 오른쪽으로 띄움

## Flexbox

### CSS Flexible Box Layout

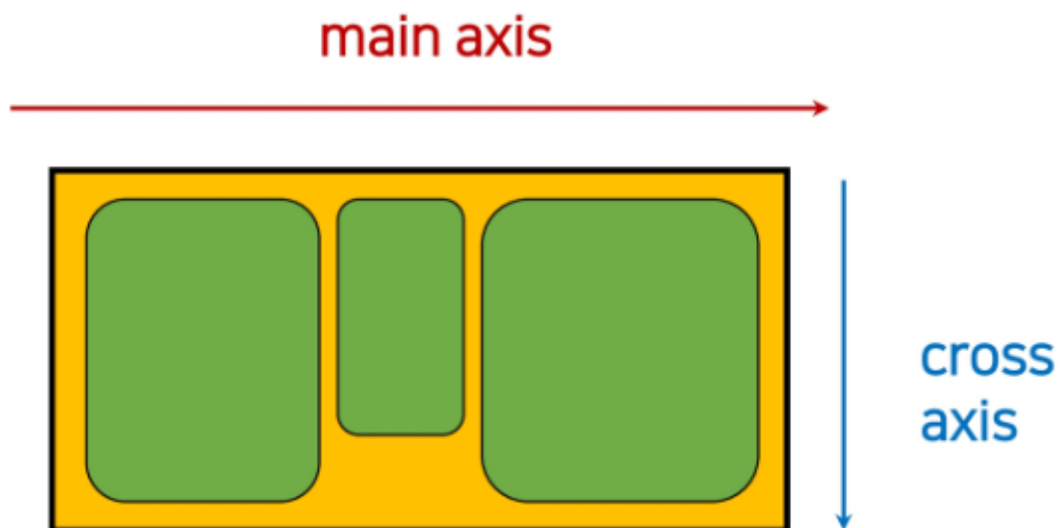
- 행과 열 형태로 아이템들을 배치하는 1차원 레이아웃 모델
- 축
  - main axis (메인 축)
  - cross axis (교차 축)
- 구성 요소
  - Flex Container (부모 요소)
    - flexbox 레이아웃을 형성하는 가장 기본적인 모델

- Flex item들이 놓여있는 영역
- display 속성을 flex 혹은 inline-flex로 지정
- Flex Item (자식 요소)
  - 컨테이너에 속해있는 자식 박스



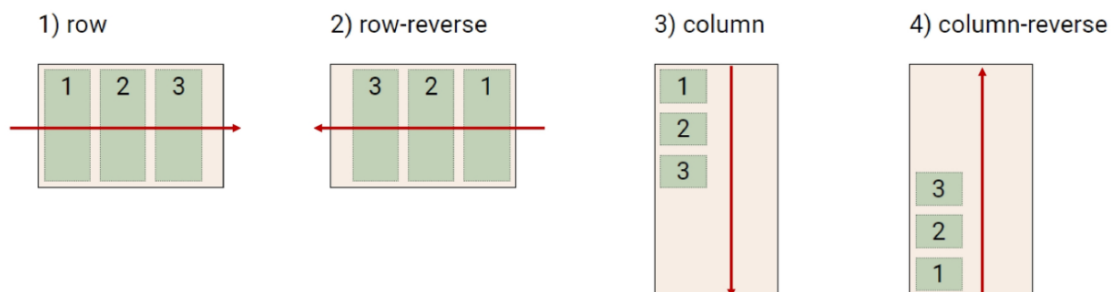
## Flexbox 축

- flex-direction: row



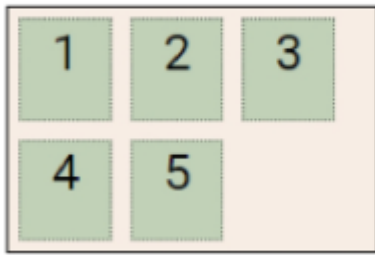
## Flex 속성

- 배치 설정
  - flex-direction
  - flex-wrap
- 공간 나누기
  - justify-content (main axis)
  - align-content (cross axis)
- 정렬
  - align-items (모든 아이템을 cross axis 기준으로)
  - align-self (개별 아이템)
- flex-direction
  - main axis 기준 방향 설정
  - 역방향의 경우 HTML 태그 선언 순서와 시각적으로 다르니 유의

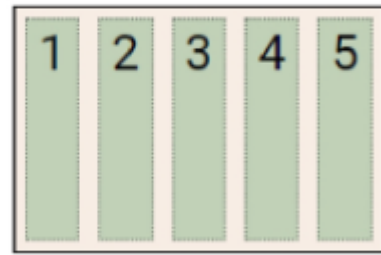


- flex-wrap
  - 아이템이 컨테이너를 벗어 나는 경우 해당 영역 내에 배치되도록 설정
  - 기본적으로 컨테이너 영역을 벗어나지 않도록 함

## 1) wrap



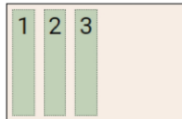
## 2) nowrap



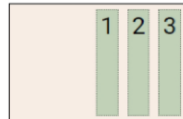
- flex-flow
  - flex-direction 과 flex-wrap의 shorthand
  - flex-direction과 flex-wrap에 대한 설정 값을 차례로 작성
  - ex) flex-flow: row nowrap

- justify-content
  - Main axis를 기준으로 공간 배분

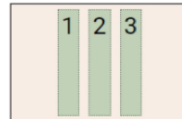
### 1) flex-start



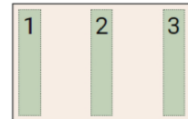
### 2) flex-end



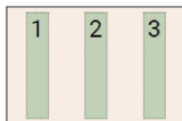
### 3) center



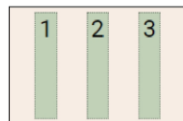
### 4) space-between



### 5) space-around

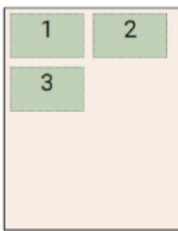


### 6) space-evenly

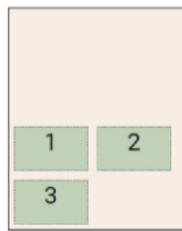


- align-content
  - cross axis를 기준으로 공간 배분 (아이템이 한 줄로 배치 되는 경우 확인할 수 없음)

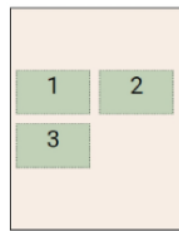
1) flex-start



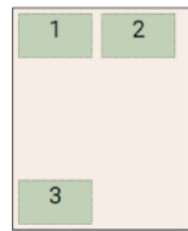
2) flex-end



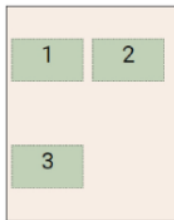
3) center



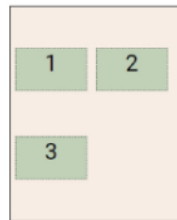
4) space-between



5) space-around



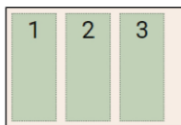
6) space-evenly



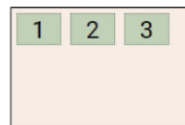
- align-items

- 모든 아이템을 Cross axis를 기준으로 정렬

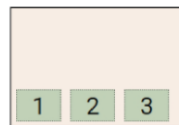
1) stretch



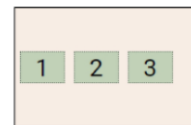
2) flex-start



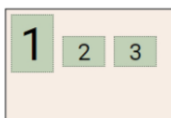
3) flex-end



4) center



5) baseline



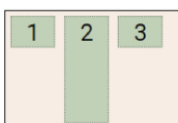
30

- align-self

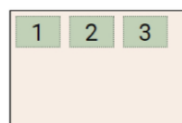
- 개별 아이템을 Cross axis 기준으로 정렬

- 해당 속성은 컨테이너에 적용하는 것이 아니라 **개별 아이템에 적용**

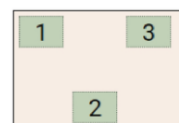
1) stretch



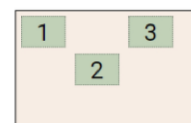
2) flex-start



3) flex-end



4) center



- 기타 속성

- flex-grow: 남은 영역을 아이템에 분배
- order: 배치 순서

```
<div class="flex_item grow-1 order-3">1</div>  
<div class="flex-item grow-1">2</div>  
<div class="flex-item order-1">3</div>  
<div class="flex-item order-2">4</div>
```

