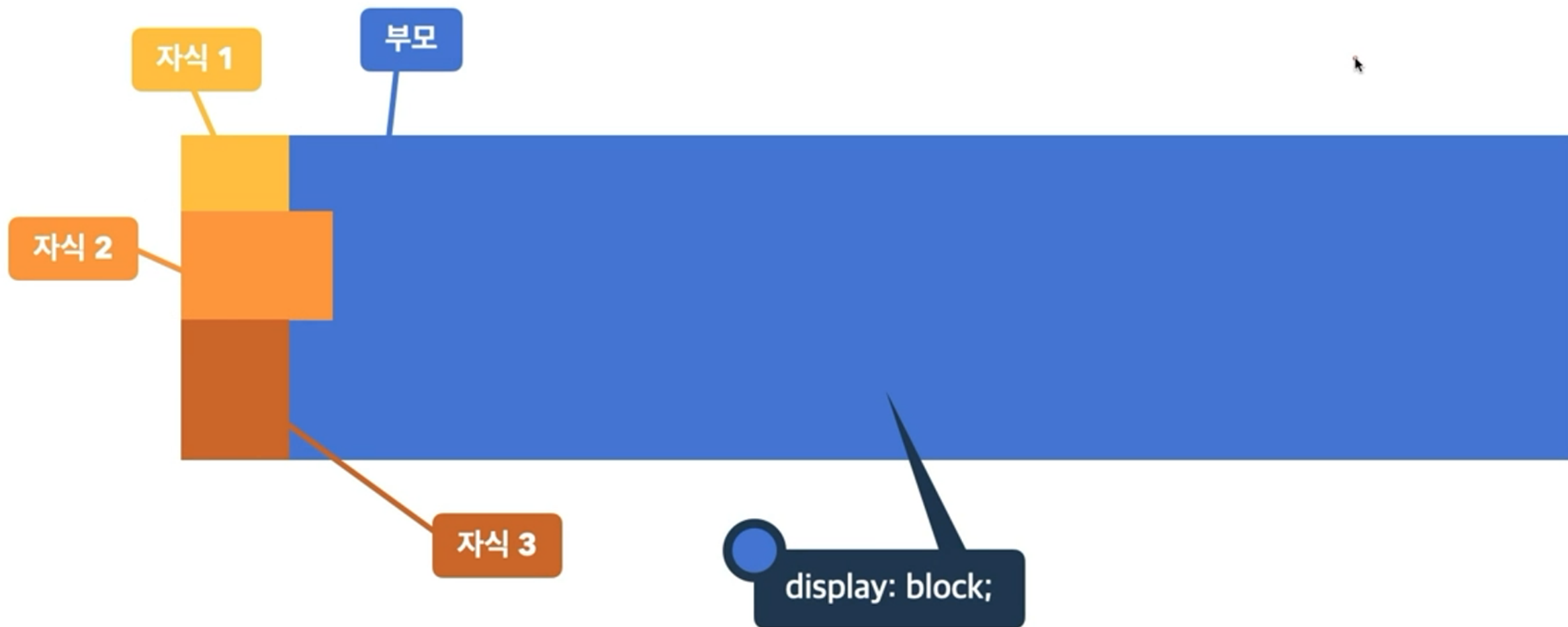


# SeSAC 도봉 1기 웹 풀스택 과정

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**Flex**



수평 정렬

Flex Container

Flex Items

display: flex;



**행, Row**



**열, Column**

주 축을 설정

# flex-direction

**row**

행 축 (좌 => 우)

**row-reverse**

행 축 (우 => 좌)

**column**

열 축 (위 => 아래)

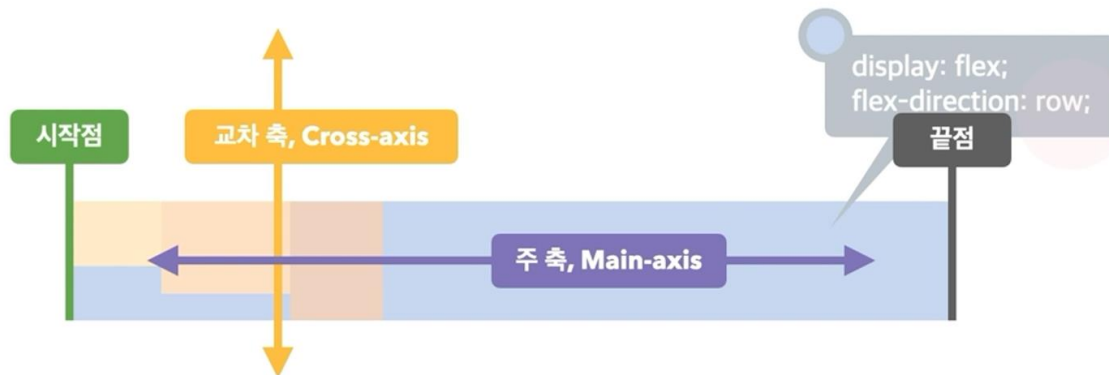
**column-reverse**

열 축 (아래 => 위)

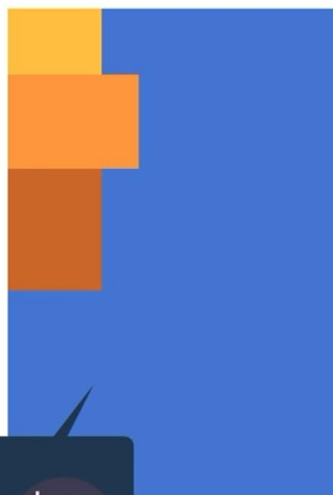
display: flex;  
flex-direction: row;



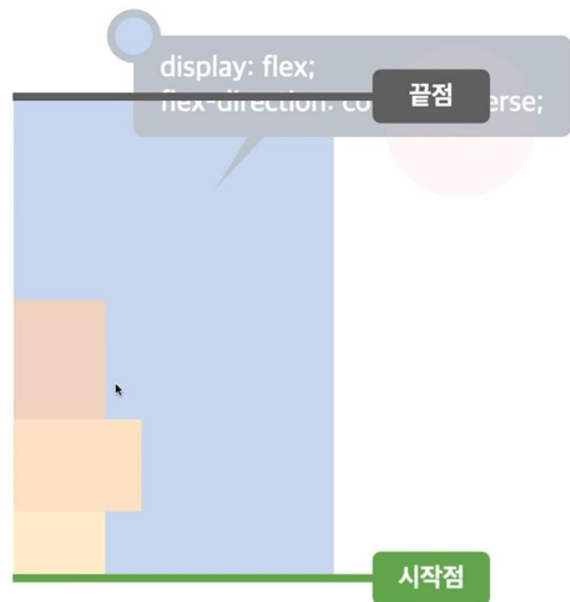
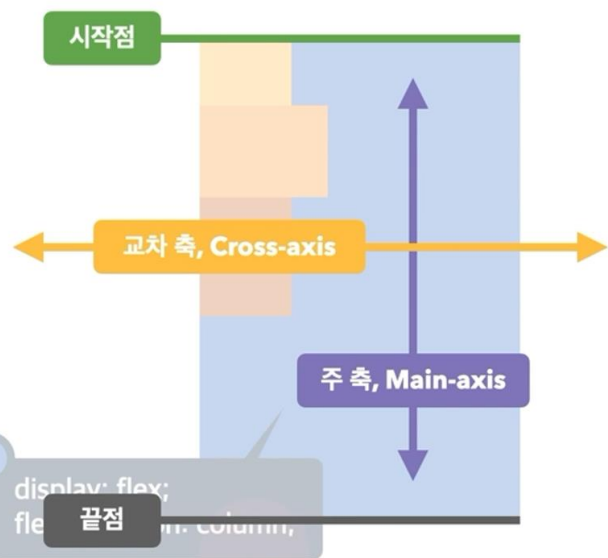
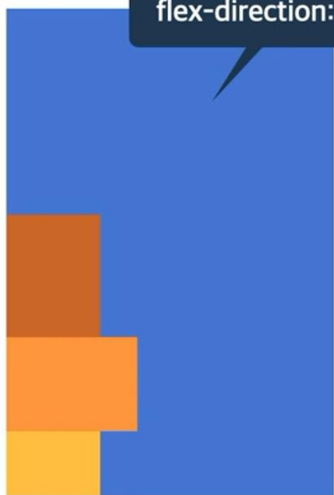
display: flex;  
flex-direction: row-reverse;



display: flex;  
flex-direction: column;



display: flex;  
flex-direction: column-reverse;





# 실습1 flex-direction

- 500px 500px 컨테이너 선언
- 100px 100px 아이템1, 2, 3 div 선언
- 가로 방향으로 아이템이 쌓이도록 설정
  - 시작점을 기준으로 쌓이도록 설정
  - 끝점을 기준으로 쌓이도록 설정
- 세로 방향으로 아이템이 쌓이도록 설정

Flex Items 묶음(줄 바꿈) 여부

# flex-wrap

**nowrap**

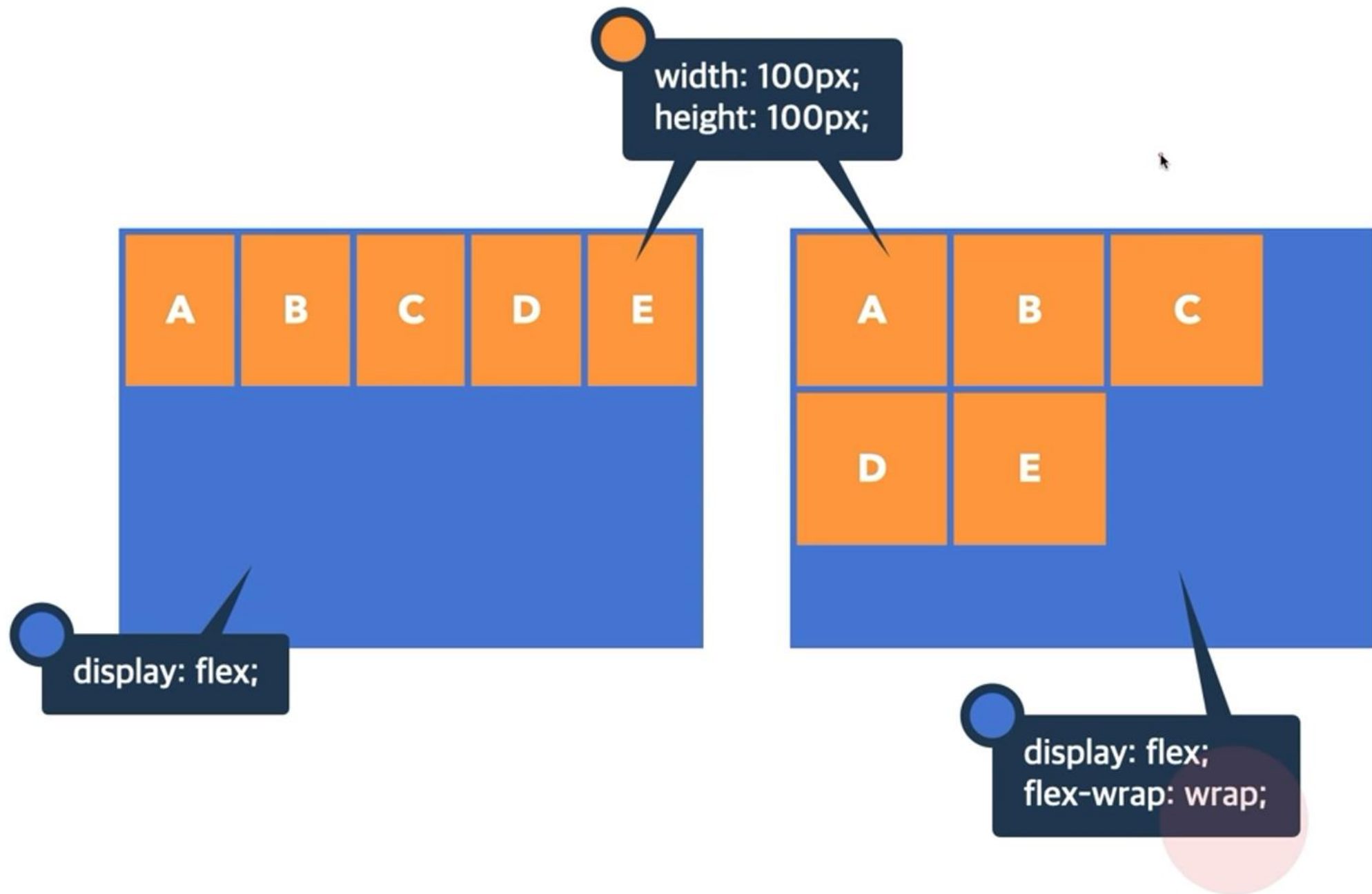
묶음(줄 바꿈) 없음

**wrap**

여러 줄로 묶음

**wrap-reverse**

wrap의 반대 방향으로 묶음



## 실습2 flex-wrap

- 500px 500px 컨테이너 선언
- 100px 100px 아이템 div 8개 선언
- 컨테이너 안에 한 줄이 되도록 설정
- 컨테이너 안에 두 줄이 되도록 설정

주 축의 정렬 방법

# justify-content

**flex-start**

Flex Items를 시작점으로 정렬

**flex-end**

Flex Items를 끝점으로 정렬

**center**

Flex Items를 가운데 정렬

**space-between**

각 Flex Item 사이를 균등하게 정렬

**space-around**

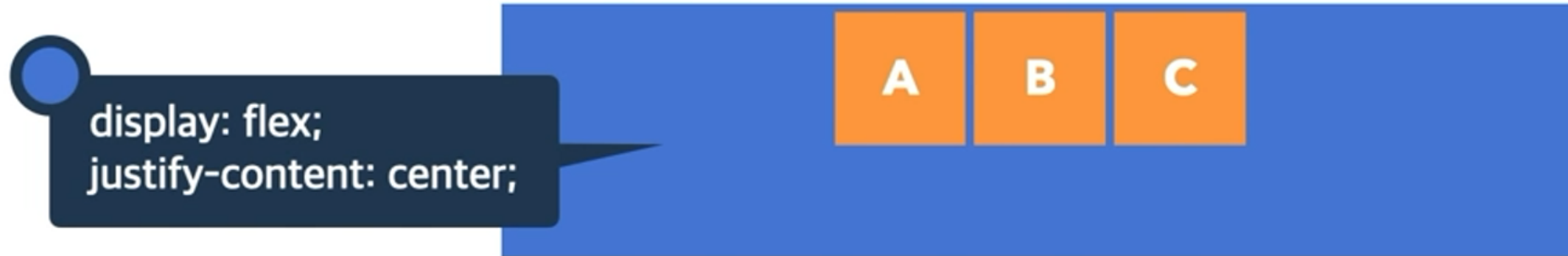
각 Flex Item의 외부 여백을 균등하게 정렬



`display: flex;`

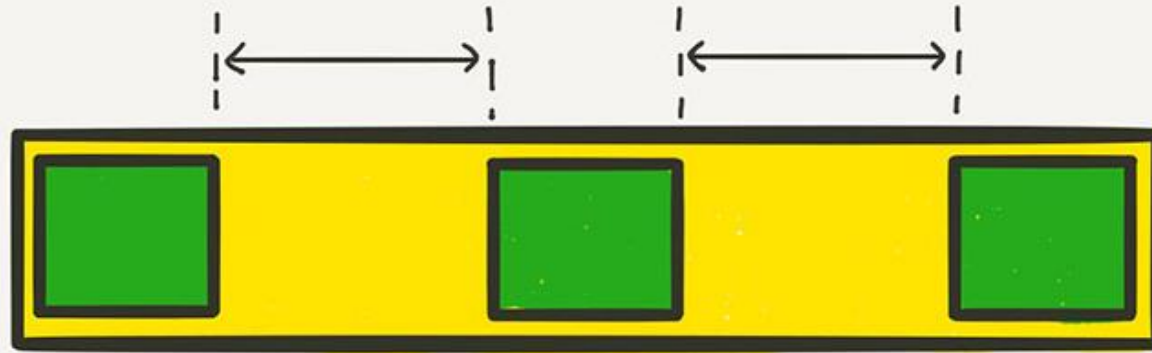


`display: flex;`  
`justify-content: flex-end;`

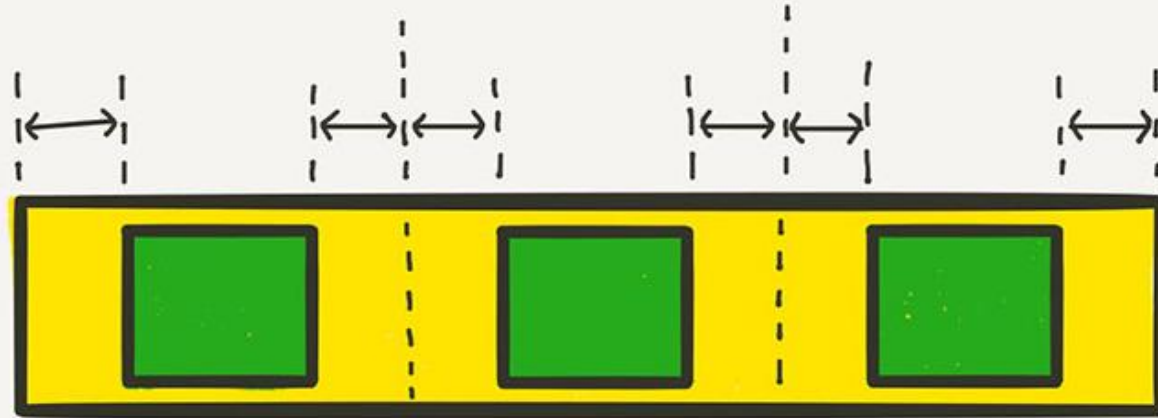


`display: flex;`  
`justify-content: center;`

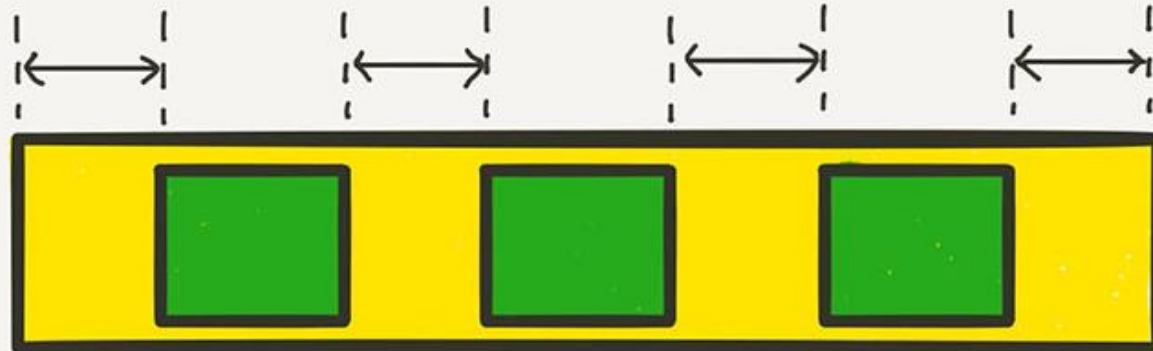
space-between



space-around



space-evenly



교차 축의 한 줄 정렬 방법

# align-items

**stretch**

Flex Items를 교차 축으로 늘림

**flex-start**

Flex Items를 각 줄의 시작점으로 정렬

**flex-end**

Flex Items를 각 줄의 끝점으로 정렬

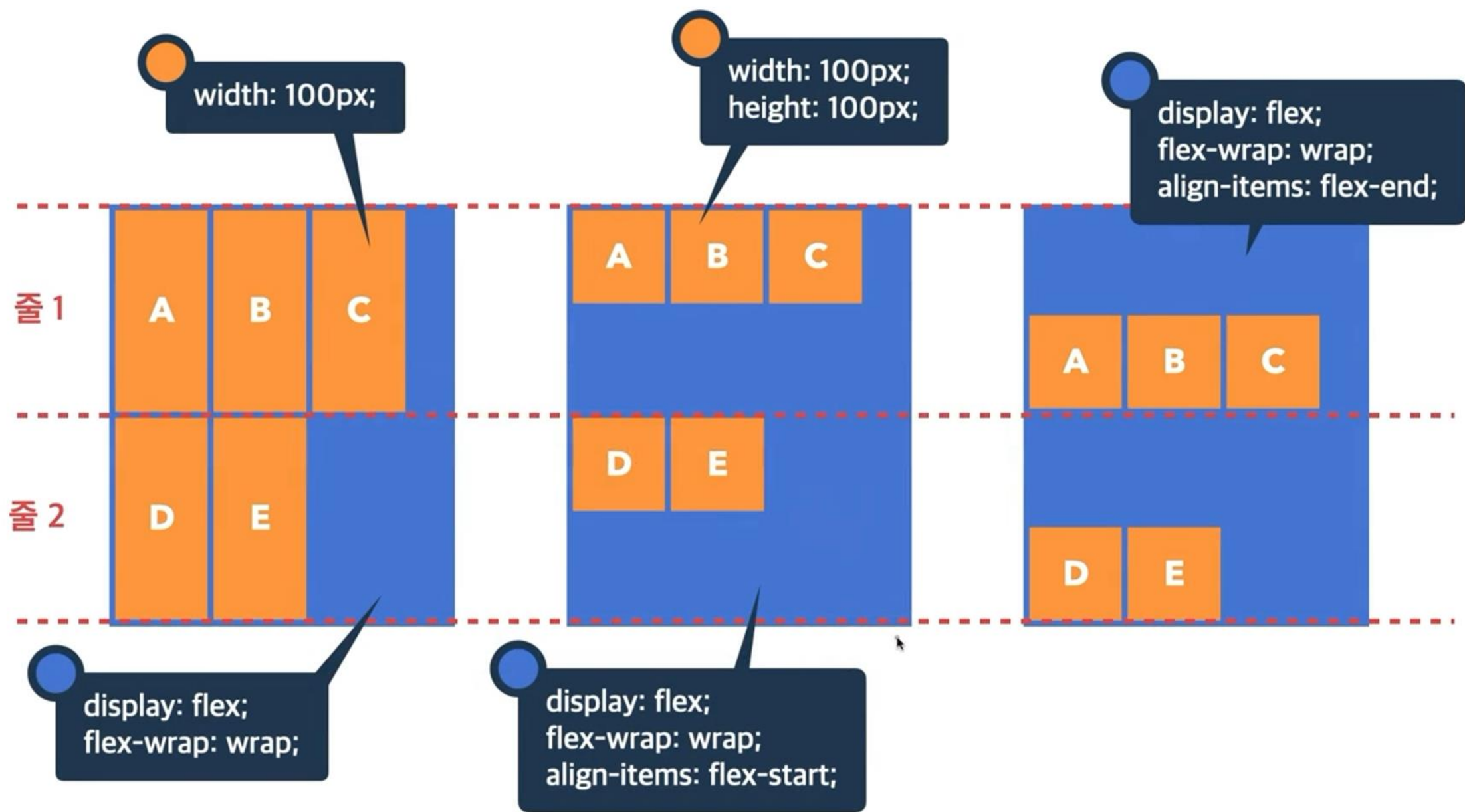
**center**

Flex Items를 각 줄의 가운데 정렬


**baseline**

Flex Items를 각 줄의 문자 기준선에 정렬



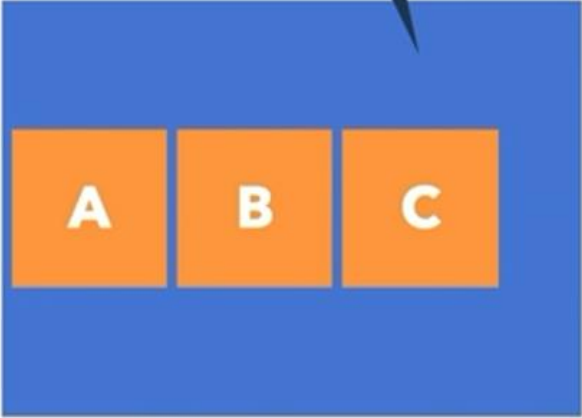


`display: flex;`  
`align-items: flex-start;`



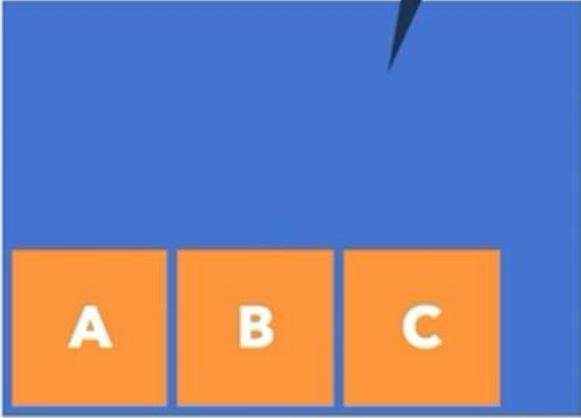
A diagram illustrating the 'flex-start' alignment. It features a blue rectangular container. Inside the container, three orange boxes labeled 'A', 'B', and 'C' are positioned at the top edge, aligned horizontally. The boxes are stacked from left to right, with 'A' on the left, 'B' in the middle, and 'C' on the right. The remaining space in the container is empty.

`display: flex;`  
`align-items: center;`



A diagram illustrating the 'center' alignment. It features a blue rectangular container. Inside the container, three orange boxes labeled 'A', 'B', and 'C' are positioned in the center vertically, aligned horizontally. The boxes are stacked from left to right, with 'A' on the left, 'B' in the middle, and 'C' on the right. The remaining space in the container is empty.

`display: flex;`  
`align-items: flex-end;`



A diagram illustrating the 'flex-end' alignment. It features a blue rectangular container. Inside the container, three orange boxes labeled 'A', 'B', and 'C' are positioned at the bottom edge, aligned horizontally. The boxes are stacked from left to right, with 'A' on the left, 'B' in the middle, and 'C' on the right. The remaining space in the container is empty.

교차 축의 여러 줄 정렬 방법

# align-content

**stretch**

Flex Items를 시작점으로 정렬

**flex-start**

Flex Items를 시작점으로 정렬

**flex-end**

Flex Items를 끝점으로 정렬

**center**

Flex Items를 가운데 정렬

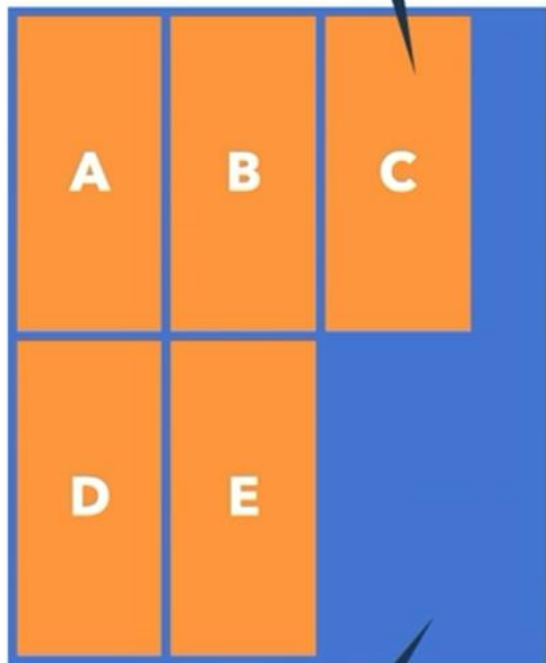
**space-between**

각 Flex Item 사이를 균등하게 정렬

**space-around**

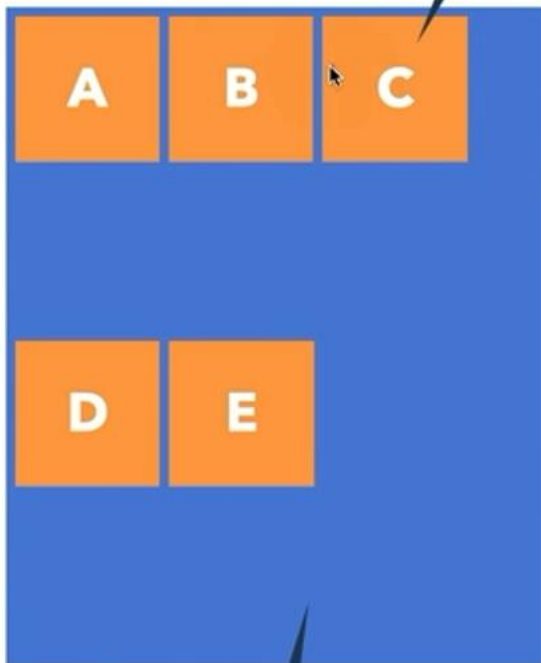
각 Flex Item의 외부 여백을 균등하게 정렬

width: 100px;



display: flex;  
flex-wrap: wrap;

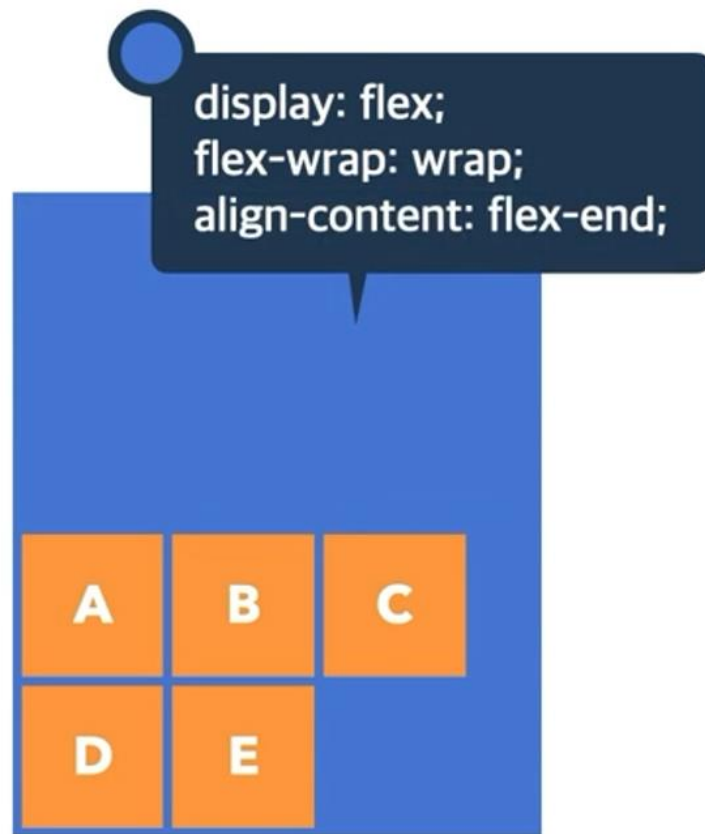
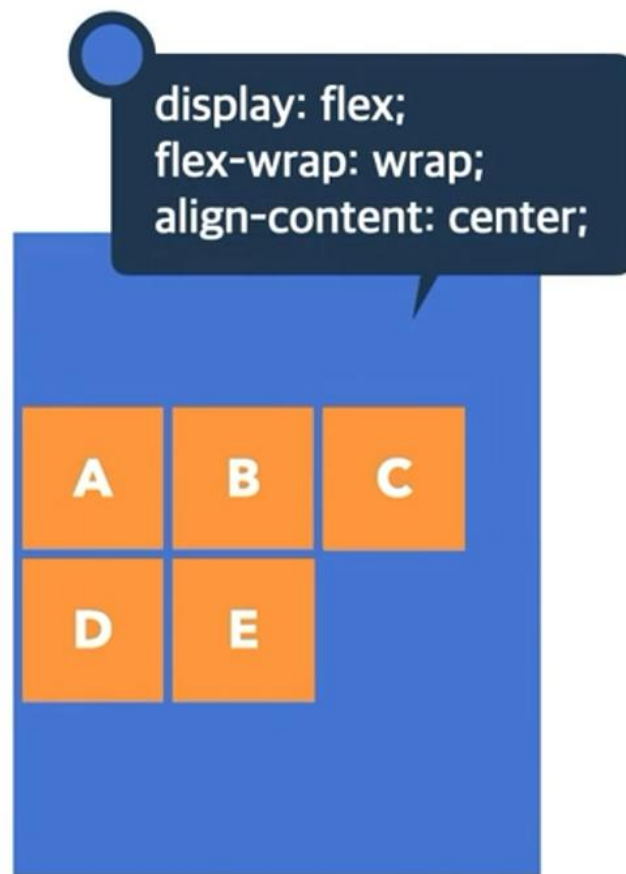
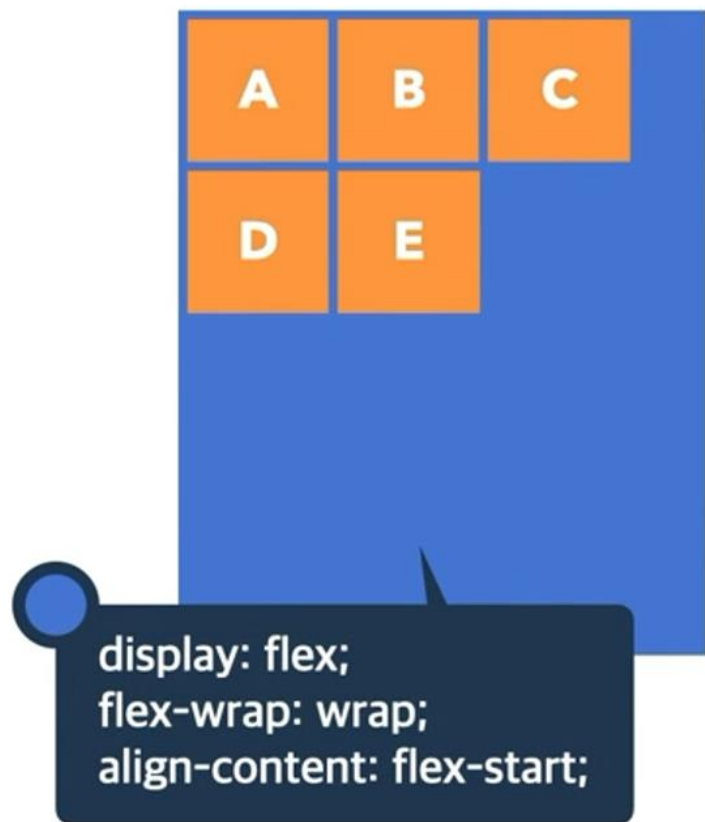
width: 100px;  
height: 100px;



display: flex;  
flex-wrap: wrap;



display: flex;  
flex-wrap: wrap;  
align-content: flex-start;



## 실습3 flex-wrap

- 500px 500px 컨테이너 선언
- 100px 100px 아이템 div 8개 선언
- 컨테이너 안에 한 줄이 되도록 설정
  - 해당 아이템을 가로, 세로 수직 정렬하기
- 컨테이너 안에 두 줄이 되도록 설정
  - 해당 아이템을 하나로 뭉쳐서 가로, 세로 수직 정렬하기
  - 해당 아이템을 각각의 flex 줄에 가로, 세로 수직 정렬하기

개구리 게임 해보기

<https://flexboxfroggy.com/>

Flex 참고 사이트-1분 코딩

<https://studiomeal.com/archives/197>