



Building layouts the way the web intended

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Screens, screens, screens

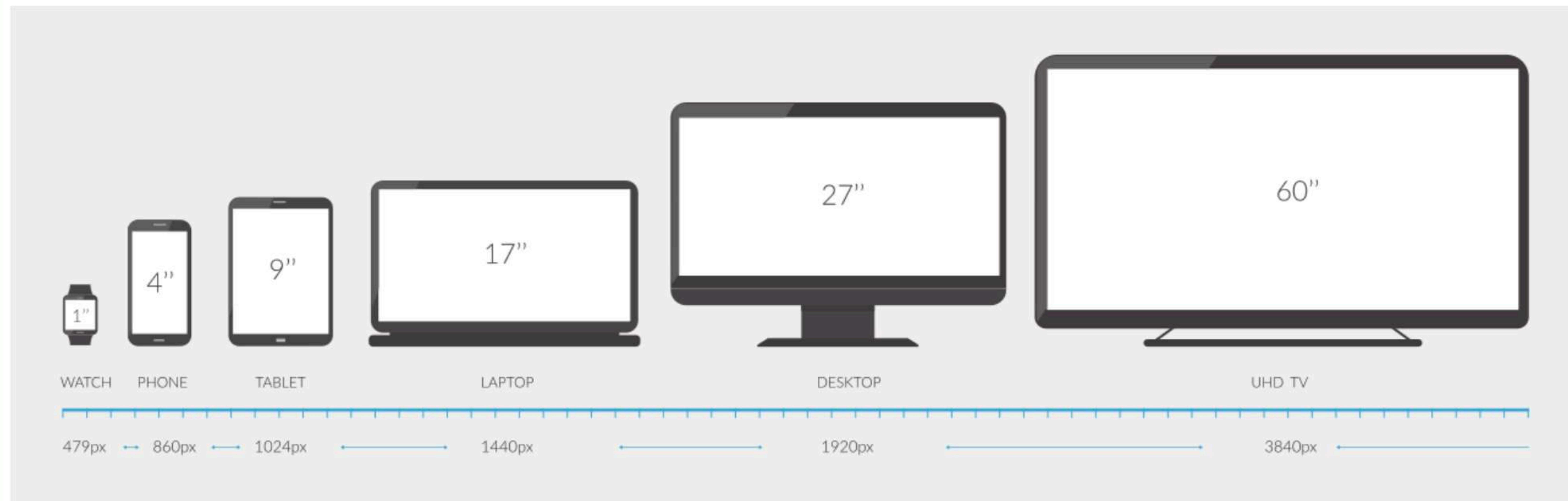


Image source: [Inch Calculator](#)





Layout technique: float

Item A	Item B	Item C

```
.float__item {  
  float: left;  
  width: calc(100% / 3);  
}
```



Layout technique: inline-block

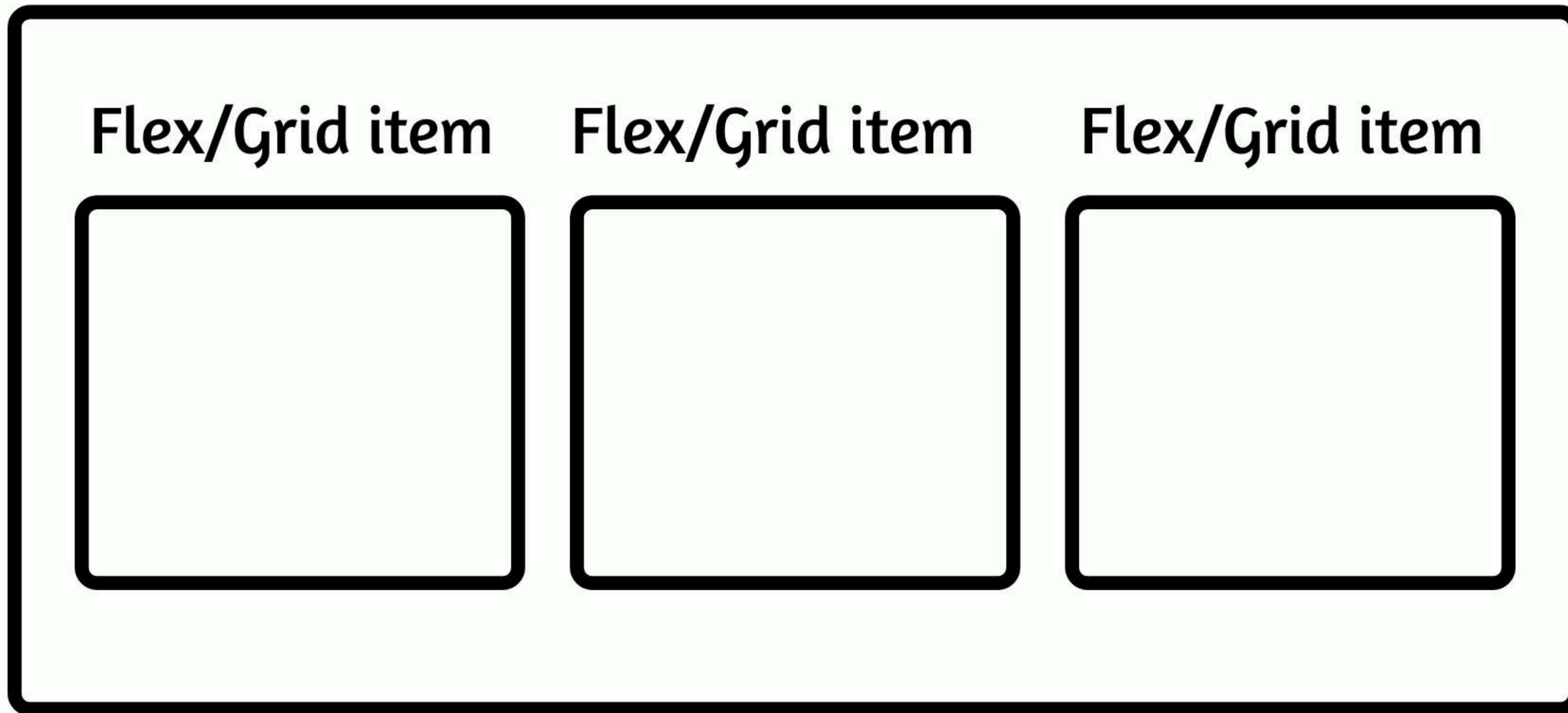
Item A	Item B	Item C

```
.inlineblock__item {  
  display: inline-block;  
  width: calc(100% / 3);  
}
```



The parent-child relationship

Flex/Grid container



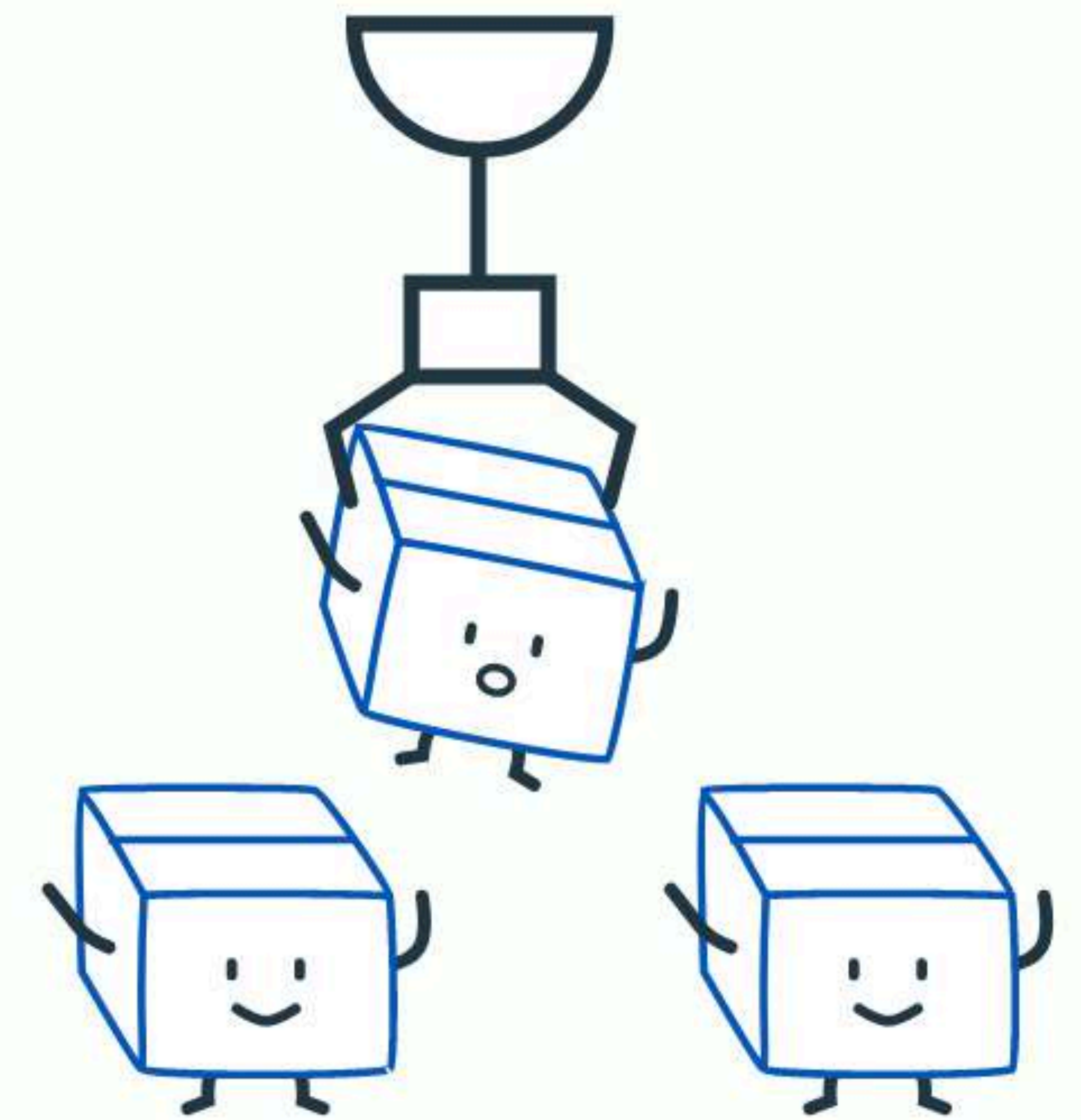
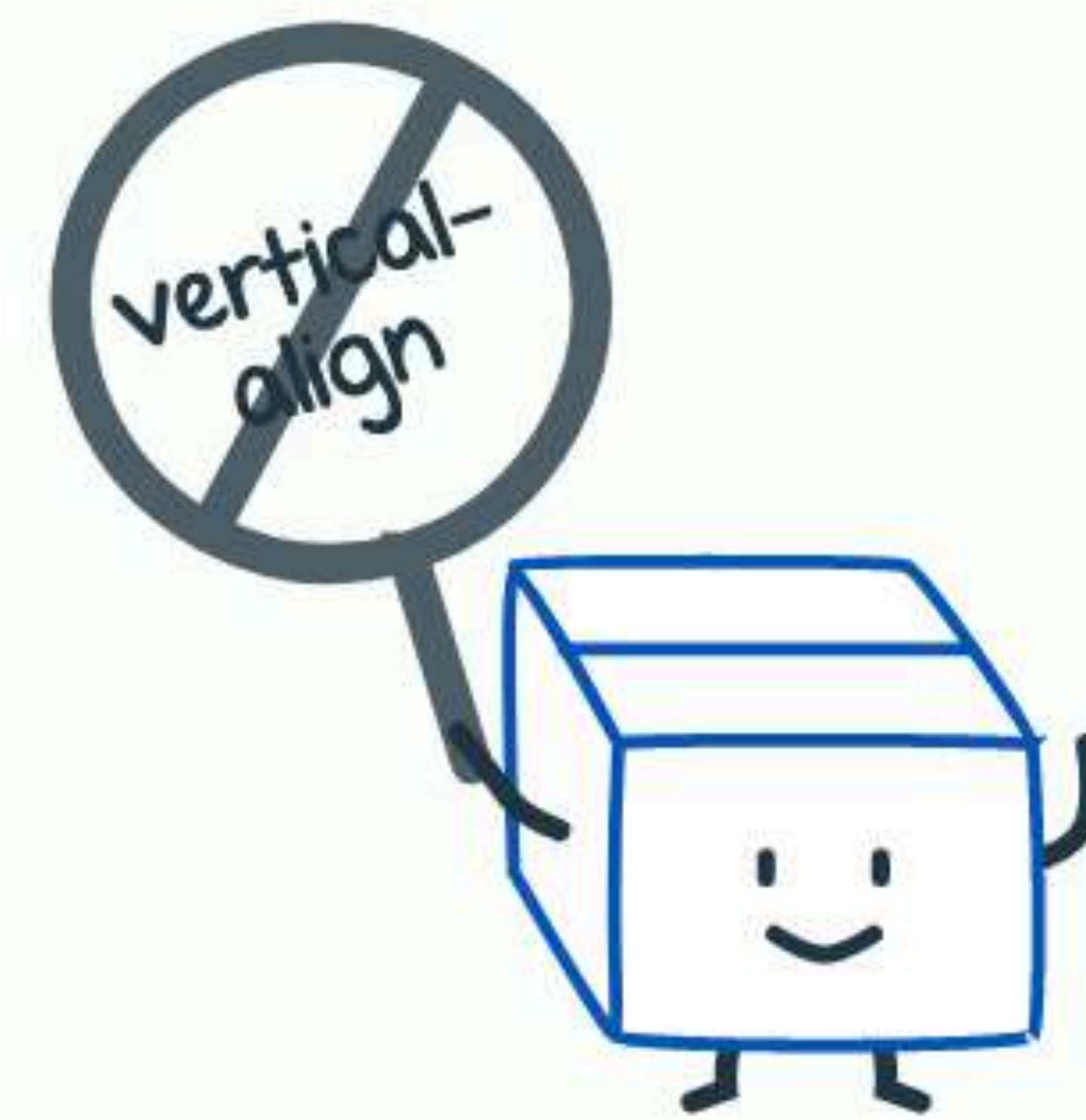
Layout technique: flex

A flex item	Another flex item	Flex items are also flex children	<i>All direct children of the flex container become flex children</i>

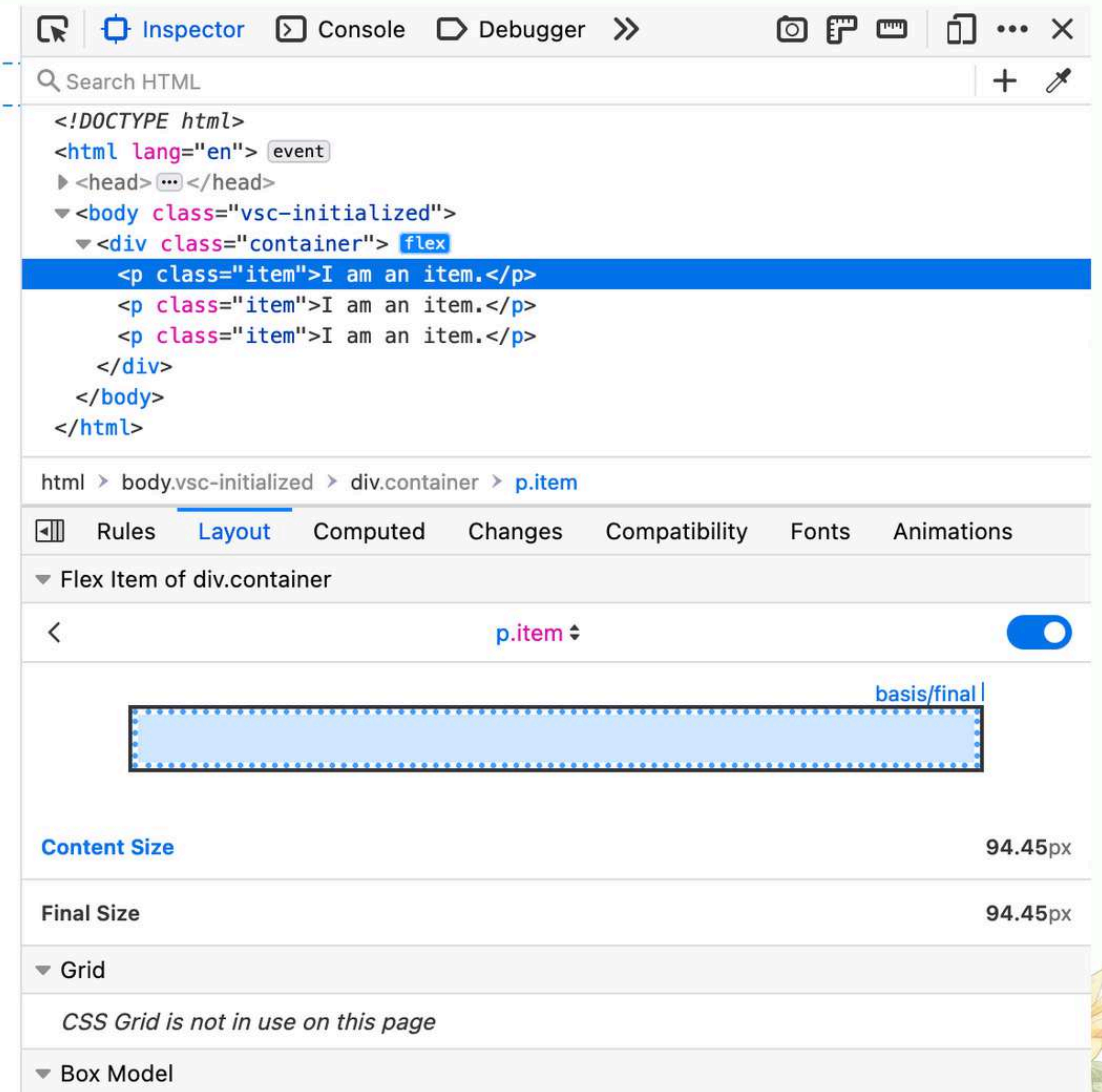
```
.flexbox {  
  display: flex;  
}
```



Flex formatting context



Flexbox devtools



The flex property

Flex grow

Flex basis

```
flex: 0 1 auto;
```

Flex shrink

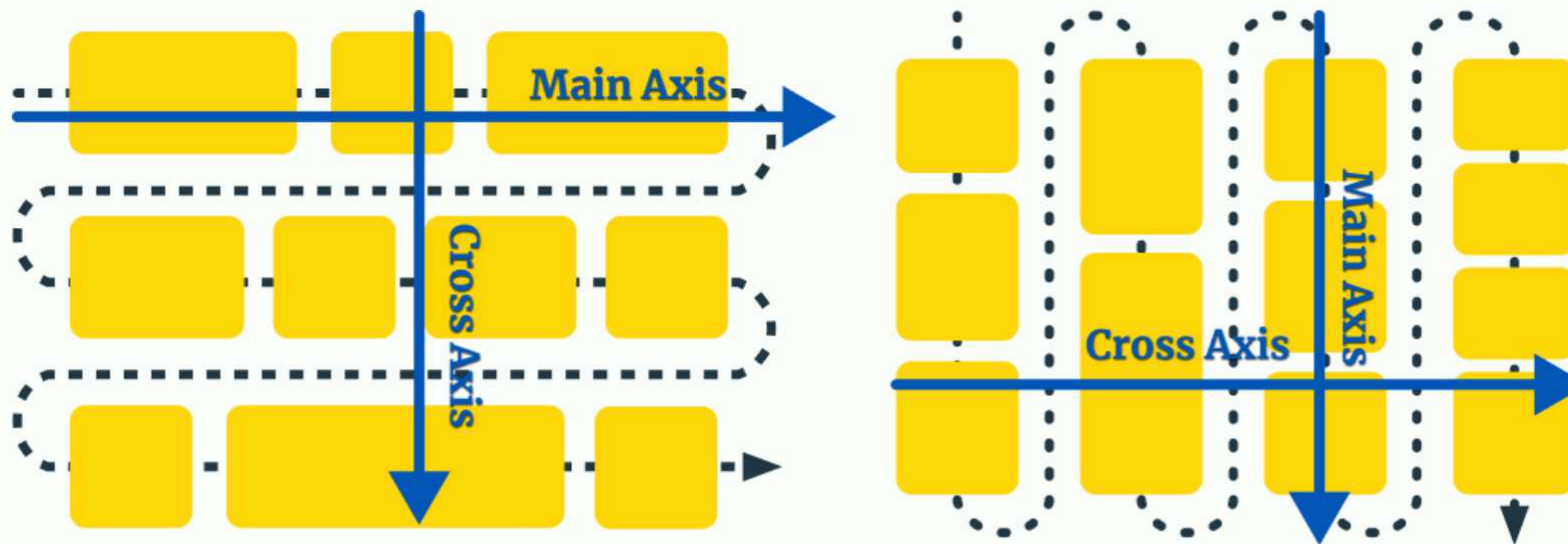


Sizing in flexbox

[View demo](#)



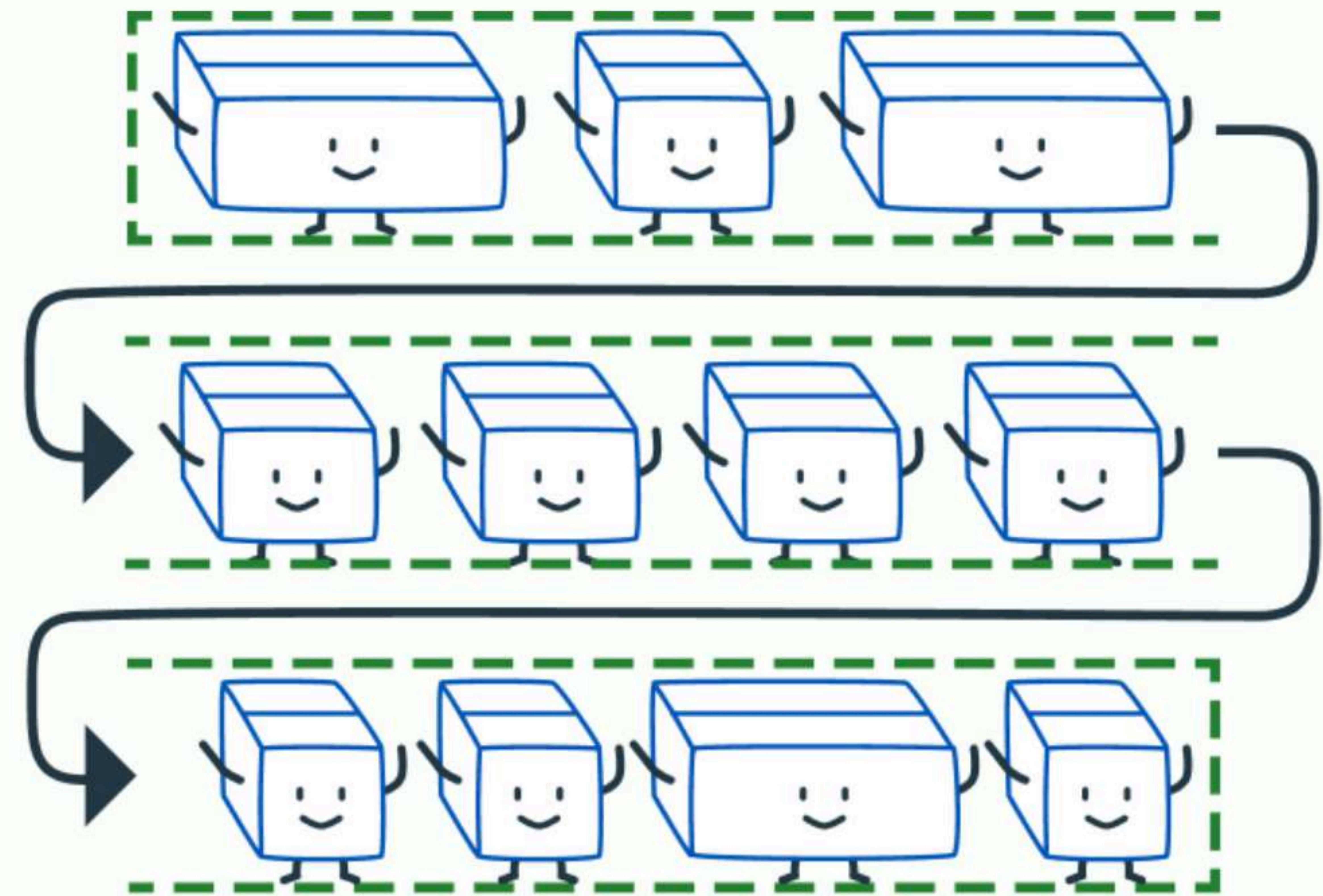
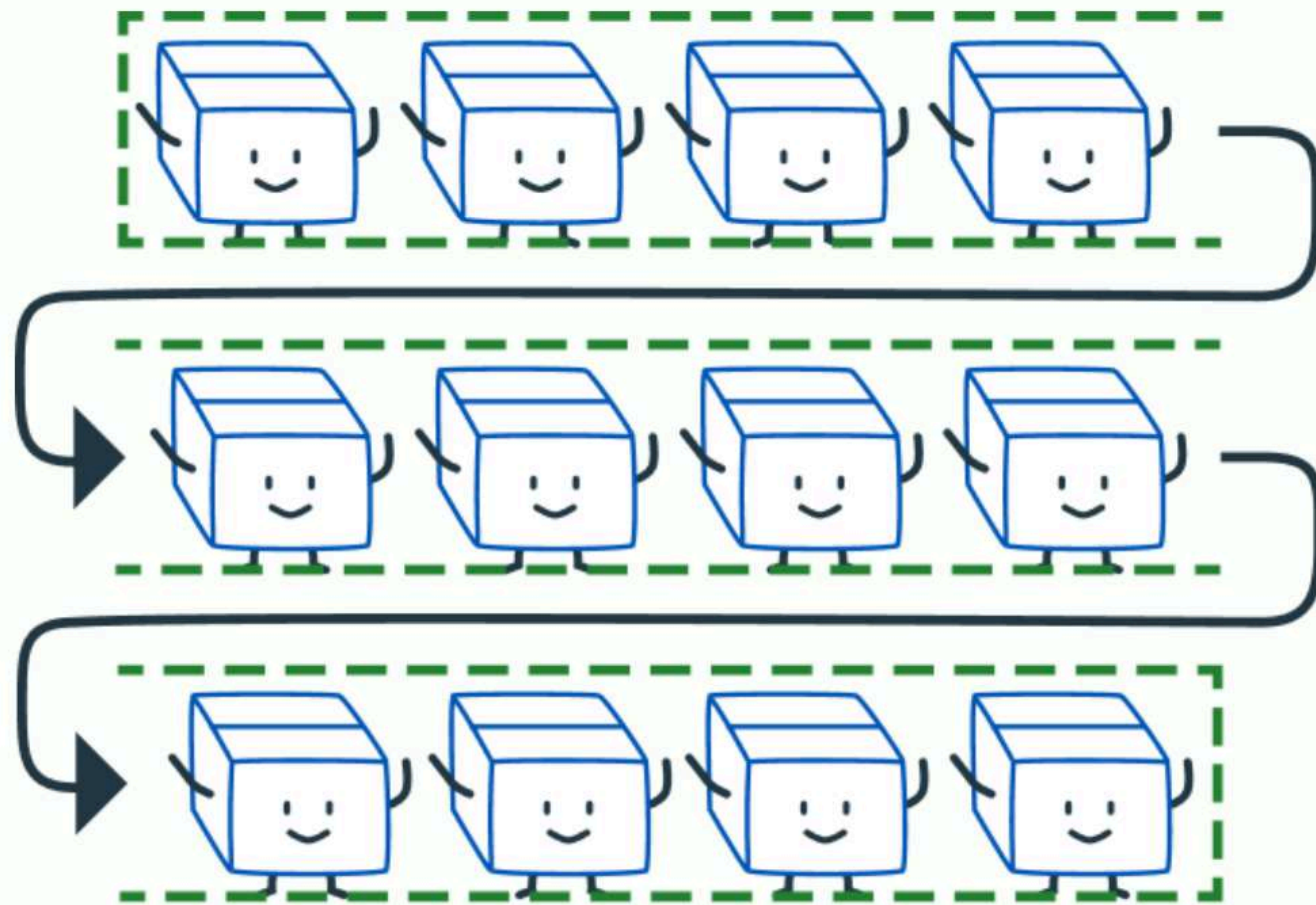
Flex directions



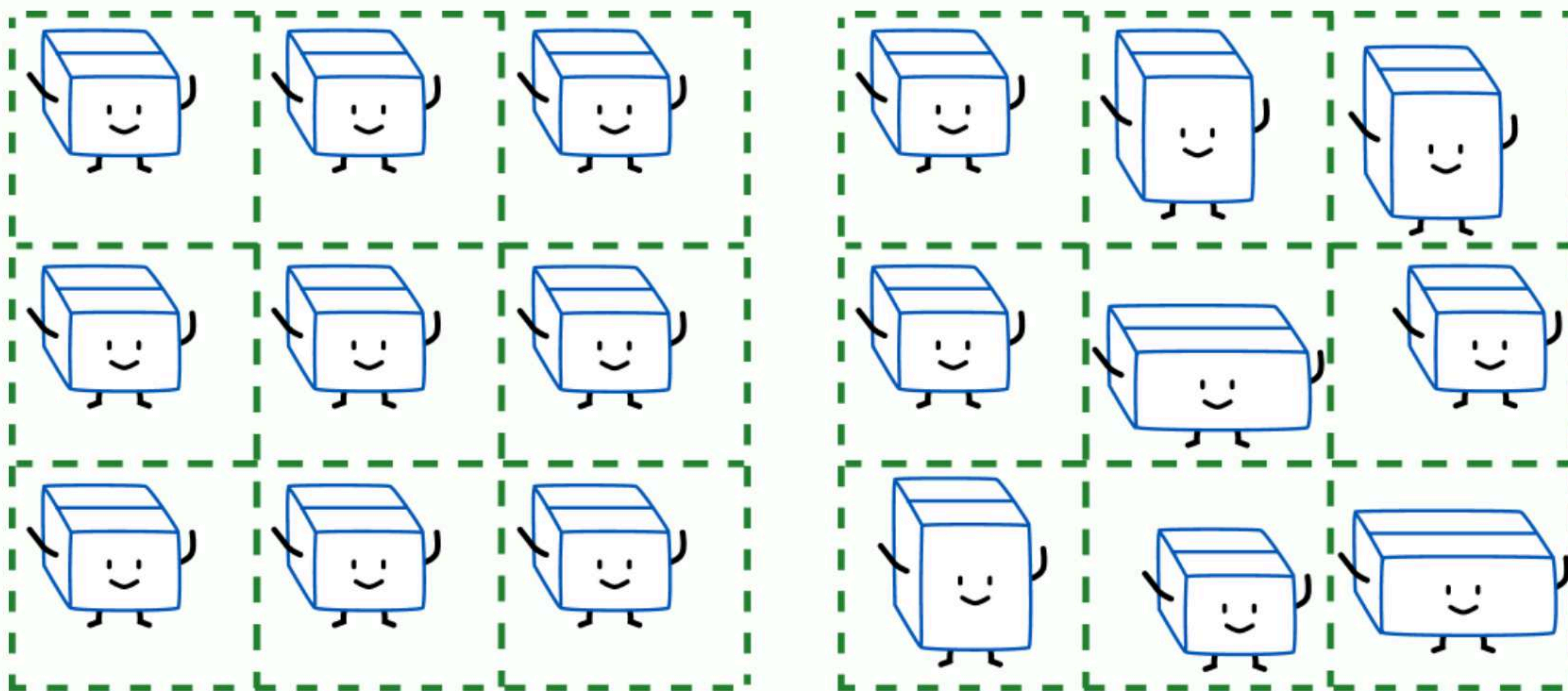
View demo



No actual grid



Real two-dimensional awareness



Layout technique: grid

Item A	Item B	Item C
Item D	Item E	Item F

```
.grid {  
  display: grid;  
  grid-template-columns: 1fr  
  1fr 1fr;  
  grid-template-rows: 200px  
  200px;  
}
```



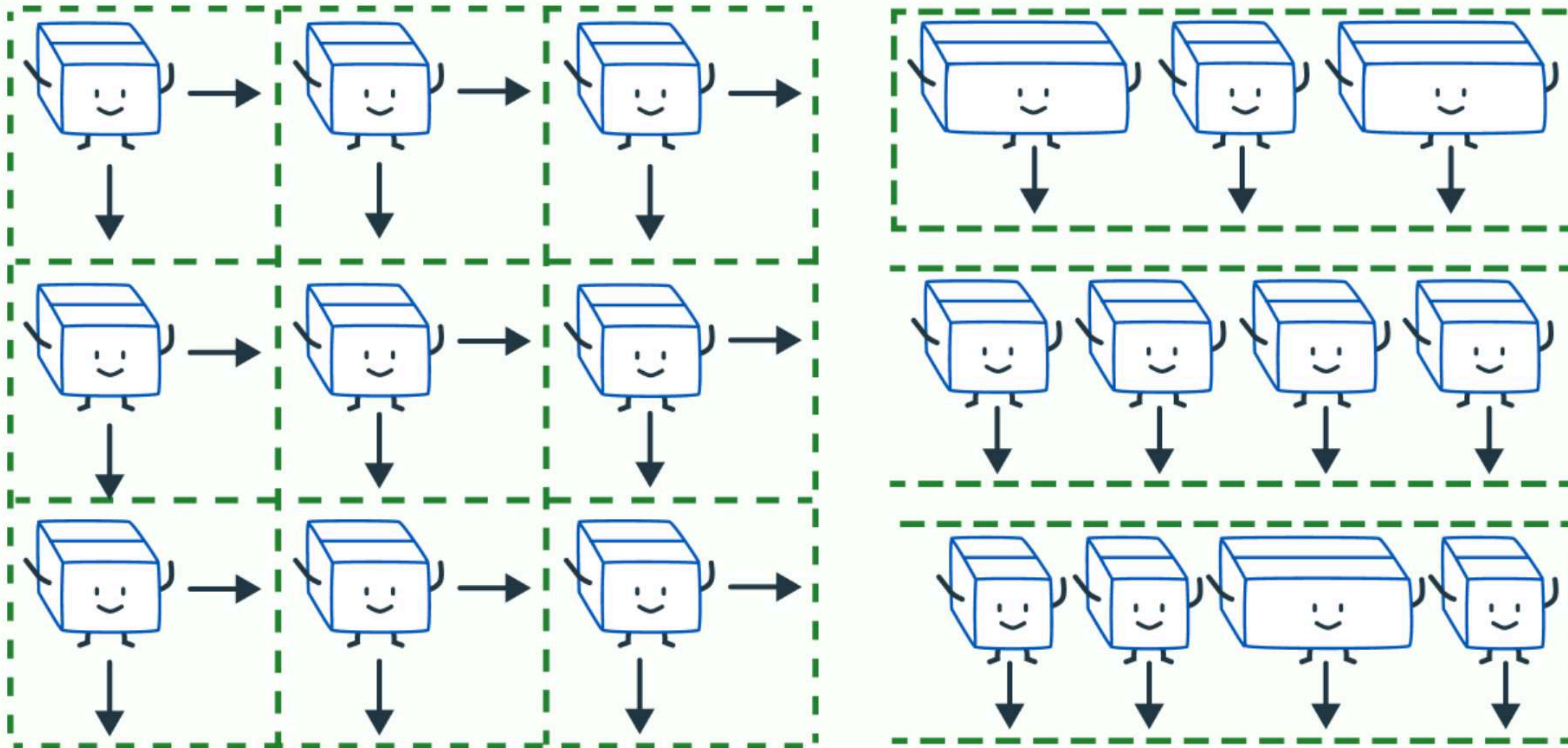
A better way of building grids

View demo

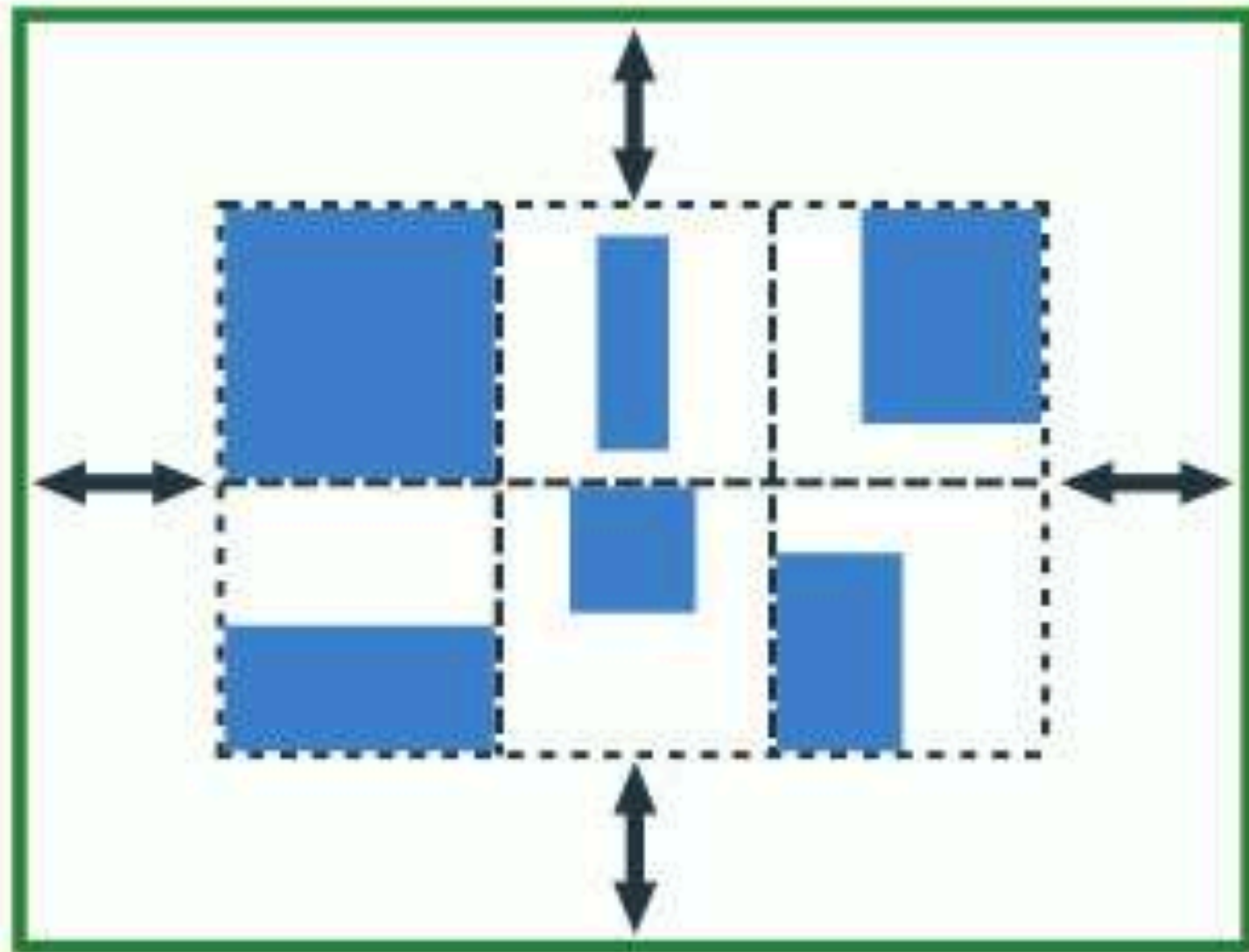
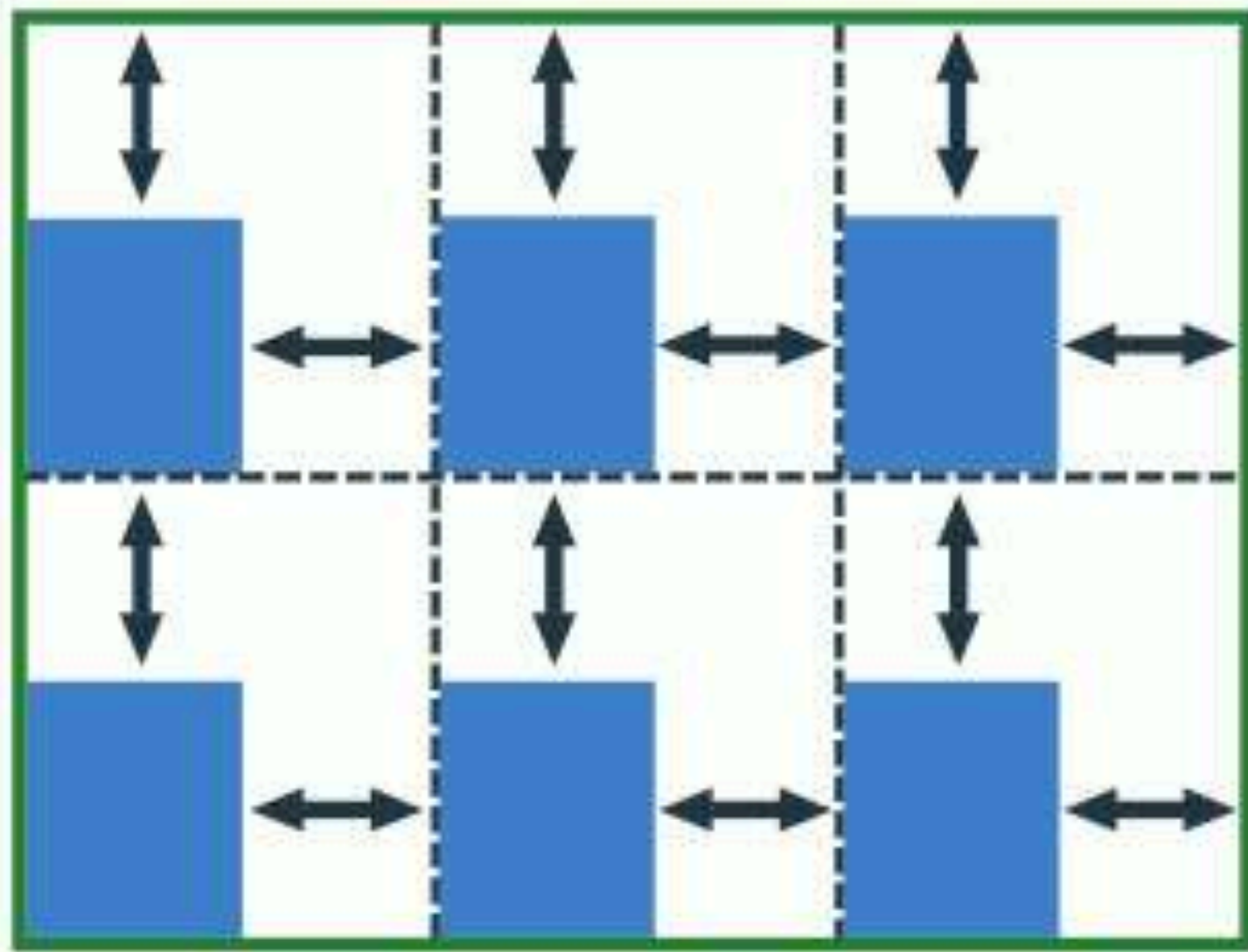
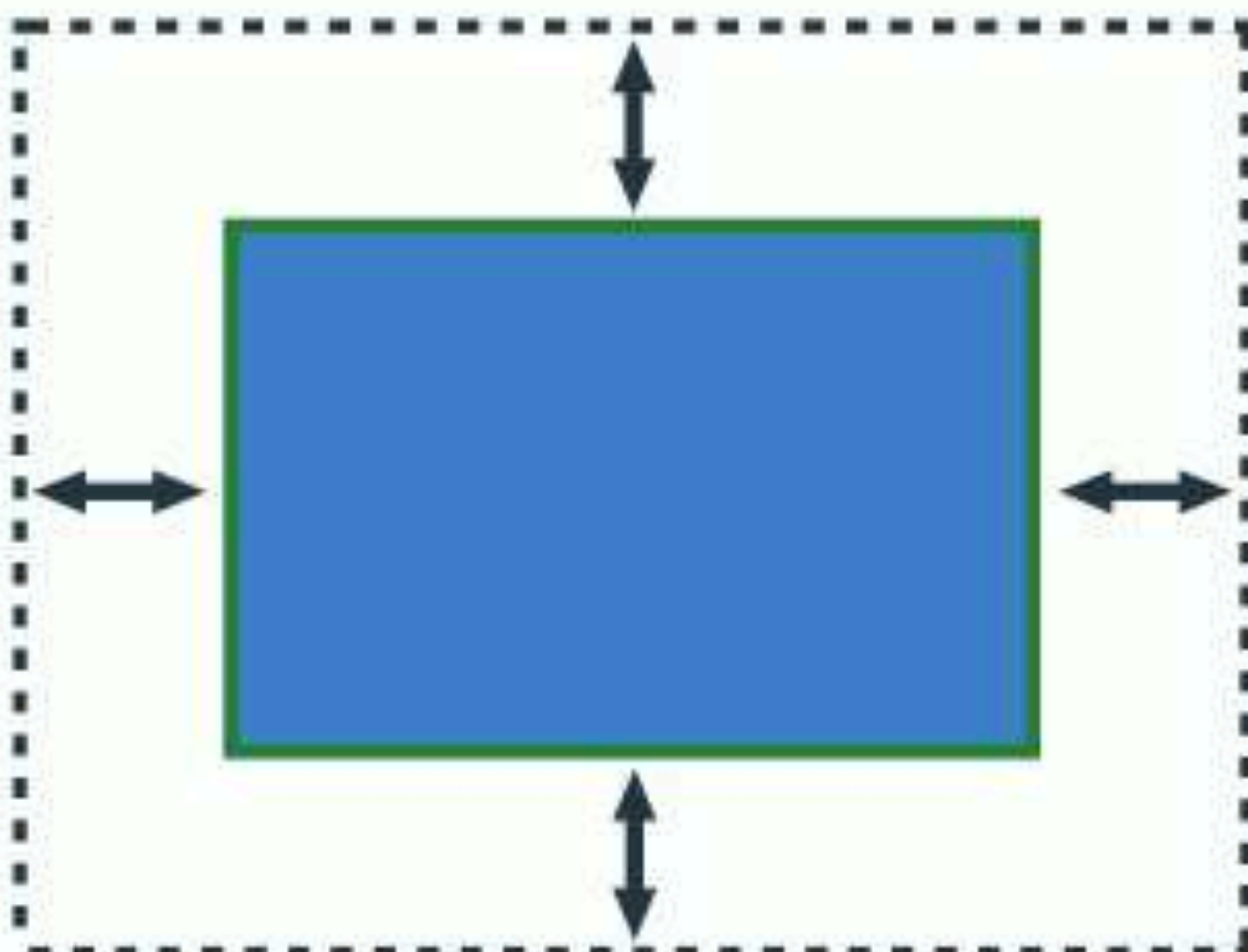


The magic sauce

No, just kidding. It's just that alignment really ties it all together.



Box alignment properties

Property	Axis	Aligns		Applies to
justify-content	main/inline	content within element (effectively adjusts padding)		block containers, flex containers and grid containers
align-content	cross/block			
justify-items	inline	items inside box (controls child items)		block containers and grid containers
align-items	cross/block			flex-containers and grid-containers
justify-self	inline	element within parent (effectively adjusts margins)		block-level boxes, absolutely-positioned boxes and grid items
align-self	cross/block			absolutely-positioned boxes, flex items and grid items



Can we put it all together?

View demo



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