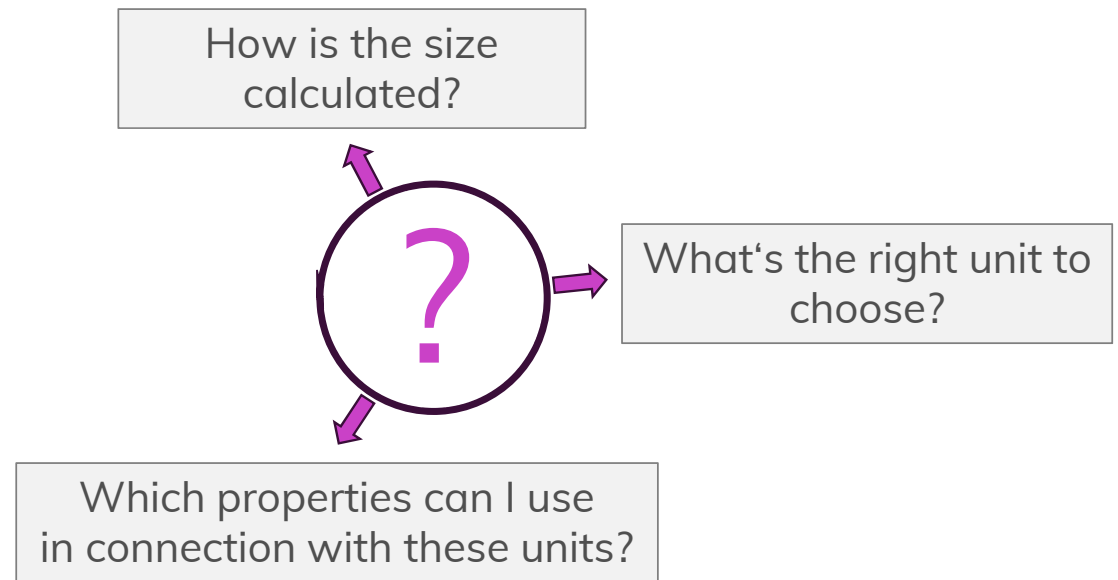


Dimensions, Sizes & Units

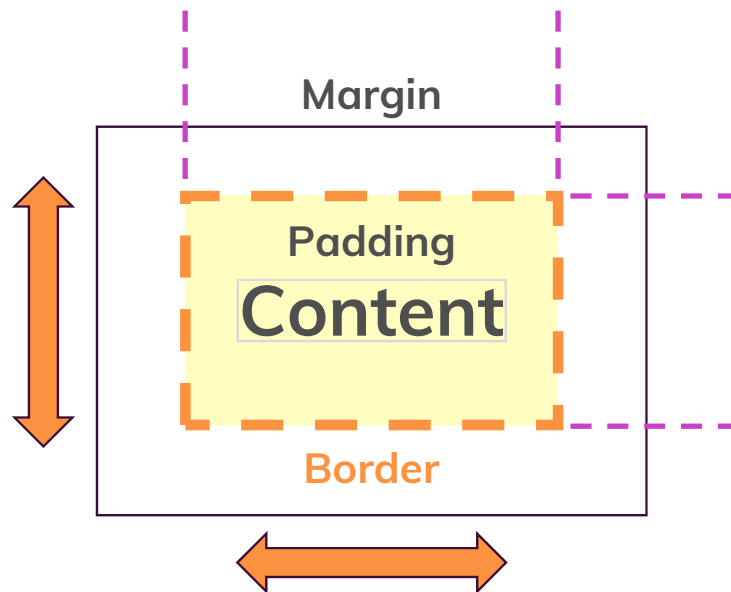
Because there is more than "px"

Pixels, Percentages & More

Units	
pixels	px
percentages	%
root em	rem
em	em
viewport height	vh
viewport width	vw



Where Units Matter



Which properties can I use?

font-size

padding

border

margin

width

height

top

bottom

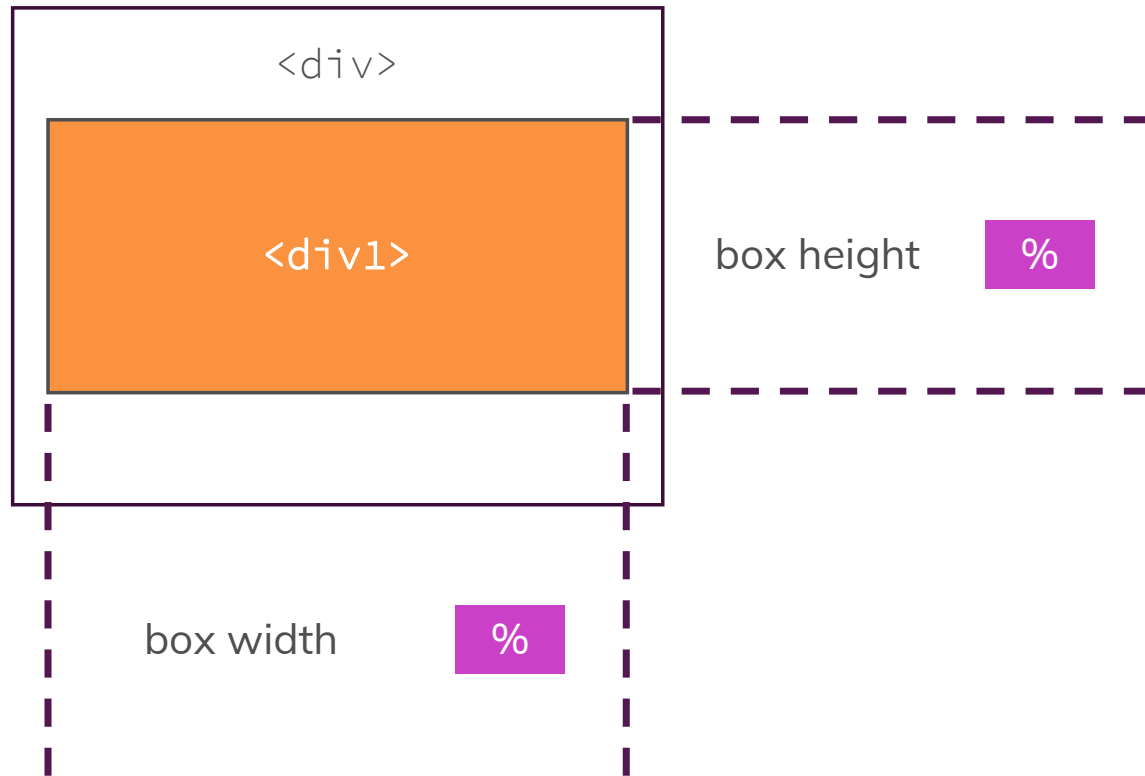
left

right

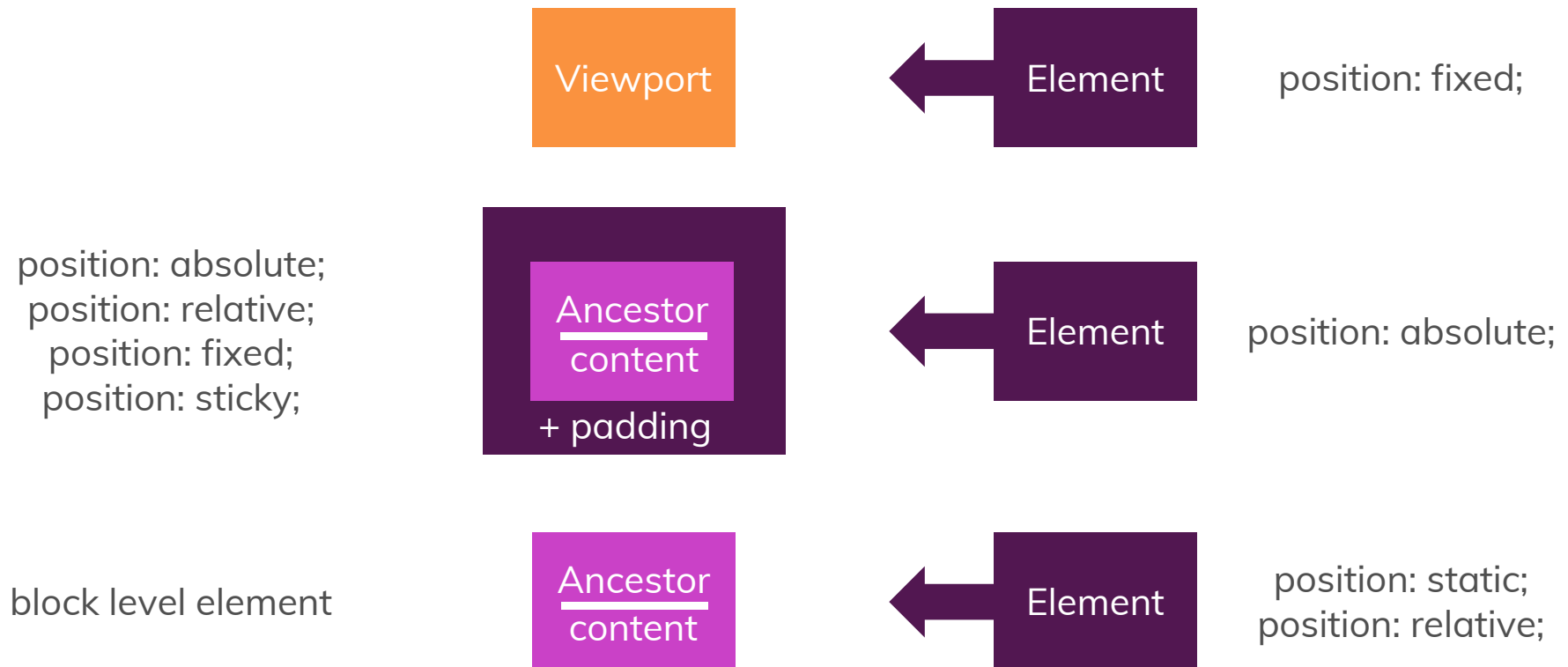
How is the Size Calculated?

Absolute Lengths	Viewport Lengths	Font-Relative Lengths
Mostly ignore user settings	Adjust to current viewport	Adjust to default font size
px	vh	rem
cm	vw	em
mm	vmin	...
...	vmax	
	%	
	Special Case	

How is the Box Size for % Units Calculated?



3 Rules to Remember



Which Unit Should I Choose?

Property			“Recommended” Unit			
font-size (root element)			%		-	
font-size			rem (em => Children only)			
padding	border	margin	rem	px	rem	
width		height	%	vw	%	vh
top		bottom	%		%	
left		right	%		%	

Summary

Units	The Containing Block	100% Height
pixels (px) percentages (%) rem & em viewport (vh % vw) auto	<ul style="list-style-type: none">• The reference point when applying % units to an element• Depends on the position property applied to this element• Can be the closest ancestor or the viewport	<ul style="list-style-type: none">• The element itself and the ancestors use position static/relative => 100% height is not working• Adding 100% height to all ancestors fixes this issue• Position fixed/absolute or using viewport units (vw or vh) as alternatives
Min/Max-Width	Em & Rem	
<ul style="list-style-type: none">• Always use these in combination with the width property• Set width to a relative value (e.g. %) and the min/max value to px to limit the element size• Also available for height	<ul style="list-style-type: none">• Sizes always depend on the font-size of the root element (rem) or the element itself (em)• Not restricted to font-size	