

Handling touch events with JavaScript

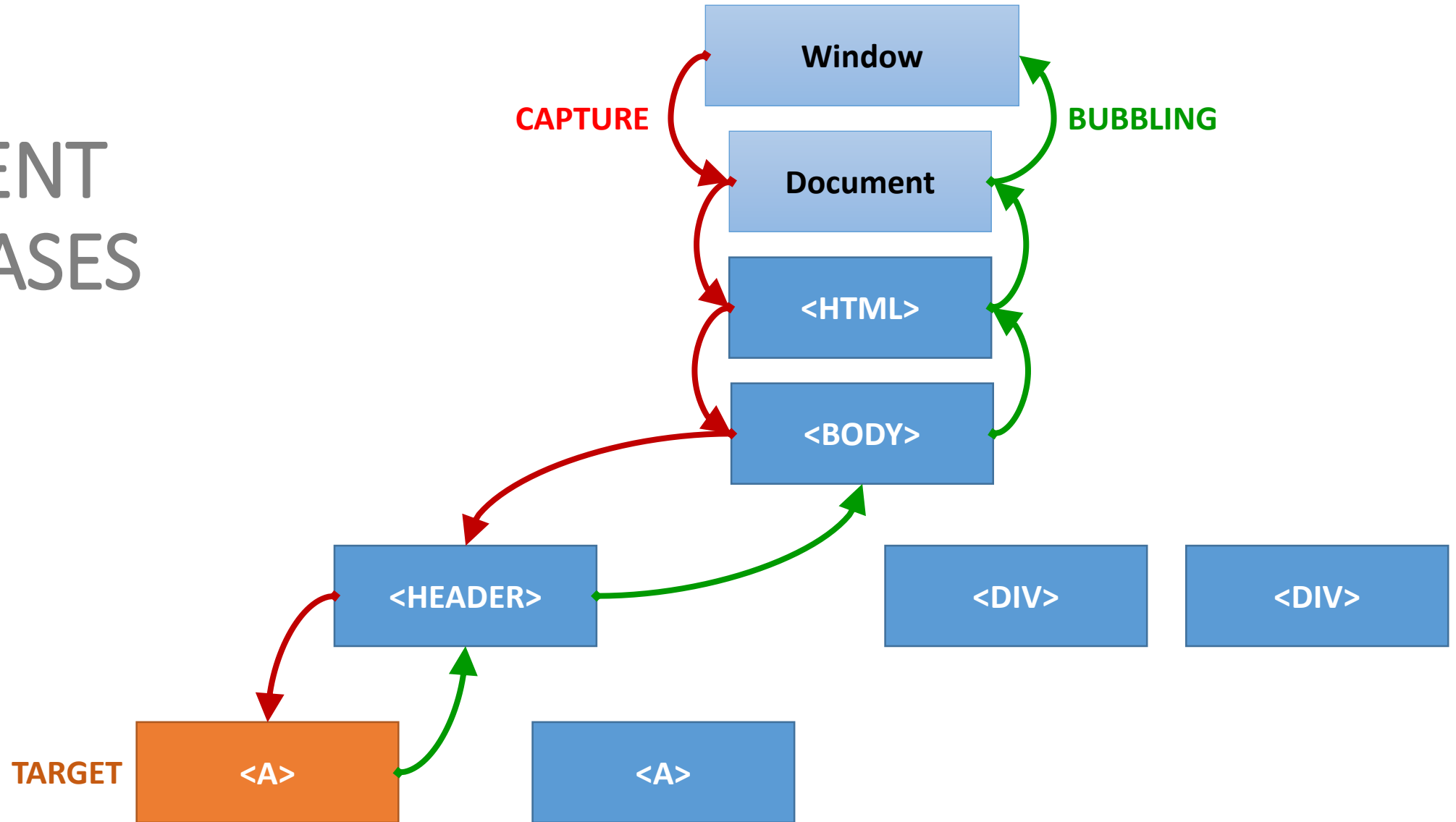
About me

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Events in JS

- The event object
- Event phases
 - Capture
 - Target
 - Bubbling
- `stopPropagation()` and `preventDefault()`

EVENT PHASES



Touch events

- Touch events object
 - Identifier, Type
 - Touches and Changed touches
- Firing events
 - touchStart
 - touchMove
 - touchEnd
 - touchEnter
 - touchLeave
 - touchCancel

Implementing custom gesture

- One finger gesture
- Horizontal swipe gesture
- Simple implementation
- Trigger animation

First things first

- Setting the main variables: X, Y, dX, dY, pxDev
- Setting the event handlers
 - Calculating the point movement
- Animation on swipe

Setup the event handlers & listeners

- touchStart
 - Save starting points
- touchMove
 - Calculate where did the point move to
 - Is movement horizontal or vertical or diagonal
 - Swipe direction: left or right
- addEventListener
- removeEventListener

Sample code

<http://jsfiddle.net/martinchaov/e3P2K/>

Animation on swipe

- CSS transform3d string
- Attach/detach events while animation is running
- transitionEnd event

Performance tips

- Don't calculate for every pixel
 - Use timeouts
 - Parse to integers
 - Calculate absolute numbers
- Calculate for mistakes
- Force GPU animation when possible

Browser Support

Not Supported

SUPPORTED

IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser	IE Mobile
							2.1		
					3.2		2.2		
					4.0-4.1		2.3		
8.0					4.2-4.3		3.0		
9.0	23.0	29.0	5.1		5.0-5.1		4.0		
10.0	24.0	30.0	6.0		6.0-6.1		4.1	7.0	
11.0	25.0	31.0	7.0	17.0	7.0	5.0-7.0	4.2-4.3	10.0	10.0
	26.0	32.0		18.0			4.4		
	27.0	33.0							

Questions & Conclusion