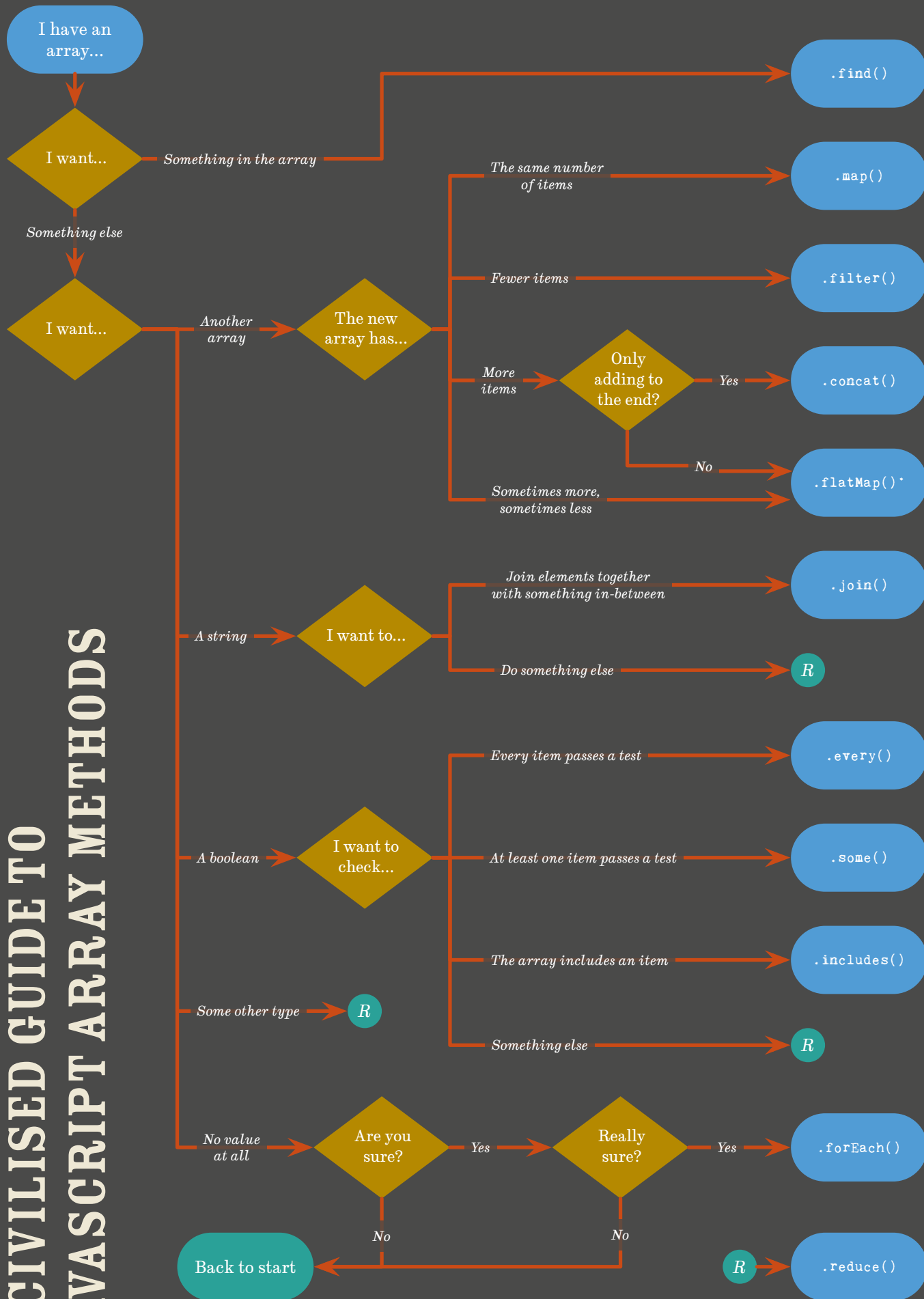


A CIVILISED GUIDE TO JAVASCRIPT ARRAY METHODS



<div>SAMPLE DATA</div> <div>This data is used across all the examples for each array method.</div> <div><pre>const heroes = [{name: 'Hulk', strength: 90000}, {name: 'Spider-Man', strength: 25000}, {name: 'Hawk Eye', strength: 136}, {name: 'Thor', strength: 100000}, {name: 'Black Widow', strength: 136}, {name: 'Vision', strength: 5000}, {name: 'Scarlet Witch', strength: 60}, {name: 'Mystique', strength: 120}, {name: 'Namora', strength: 75000}, {name: 'Captain America', strength: 362}, {name: 'Deadpool', strength: 1814}, {name: 'Black Panther', strength: 1814},];</pre></div>	<div>.find()</div> <div>The <code>.find()</code> method will return the first element in the array that matches a <code>test</code> you provide.</div> <div>EXAMPLE:</div> <div><pre>function isHulk(hero) { return hero.name === 'Hulk'; } const hulk = heroes.find(isHulk);</pre></div>	<div>.map()</div> <div>The <code>.map()</code> method will apply a given function to every item in your array and give you a new array with those values.</div> <div>EXAMPLE:</div> <div><pre>function getName(hero) { return hero.name; } const names = heroes.map(getName);</pre></div>	
<div>.filter()</div> <div>The <code>.filter()</code> method takes your array and removes items that don't pass a test you give it.</div> <div>EXAMPLE:</div> <div><pre>function strong(hero) { return hero.strength >= 200; } const tuff = heroes.filter(strong);</pre></div>	<div>.concat()</div> <div>The <code>.concat()</code> method adds new items to the end of your array.</div> <div>EXAMPLE:</div> <div><pre>const extras = [{name: 'Cyclops', strength: 136}, {name: 'Gambit', strength: 136},]; const more = heroes.concat(extras);</pre></div>	<div>.flatMap()</div> <div>This method is only a proposal, so it's not available everywhere. You pass it a function that returns an array and it will squish all the results together into a flat array.</div> <div>EXAMPLE:</div> <div><pre>function space(hero, i) { return ((i > 0) && (i % 5 === 0)) ? ['<hr/>', hero.name] : [hero.name]; } const list = heroes.flatMap(space);</pre></div>	<div>.join()</div> <div>The <code>.join()</code> method will insert a given string between each item, and return a joined-up string.</div> <div>EXAMPLE:</div> <div><pre>function getName(hero) { return hero.name; } const list = heroes .map(getName) .join('\n');</pre></div>
<div>.every()</div> <div>The <code>.every()</code> method checks that every single item in your array matches some criteria.</div> <div>EXAMPLE:</div> <div><pre>function strong(hero) { return hero.strength >= 200; } const tuff = heroes.every(strong);</pre></div>	<div>.some()</div> <div>The <code>.some()</code> method checks that at least one item in your array matches some criteria.</div> <div>EXAMPLE:</div> <div><pre>function isHulk(hero) { return hero.name === 'Hulk'; } const hulkIn = heroes.some(isHulk);</pre></div>	<div>.includes()</div> <div>The <code>.includes()</code> method checks that at least one item in your array matches some criteria.</div> <div>EXAMPLE:</div> <div><pre>function getName(hero) { return hero.name; } const hulkIn = heroes .map(getName) .includes('Hulk');</pre></div>	<div>.reduce()</div> <div>The <code>.reduce()</code> method is the most flexible array iterator. It processes each item of the array and lets you modify a value as you go.</div> <div>EXAMPLE:</div> <div><pre>function sumStrength(total, hero) { return total + hero.strength; } const totalStength = heroes.reduce(sumStrength, 0);</pre></div>
<div>.forEach()</div> <div>The <code>.forEach()</code> method applies a given function to every element in the array. It doesn't return a value though. So, by definition, it's only useful for side effects.</div> <div>EXAMPLE:</div> <div><pre>function logHero(h) { console.log('Name: ' + h.name + '\nStrength: ' + h.strength); } heroes.forEach(logHero);</pre></div>	<div>© James Sinclair 2018, https://jrstinclair.com</div> <div>A CIVILISED GUIDE TO JAVASCRIPT ARRAY METHODS</div>		