Javascript

**async** vs. **defer**

Funnel chart

Description automatically generated with low confidenceChart, funnel chart

Description automatically generated

Text

Description automatically generated with low confidence

**Module**, **Import**, **Export**

Text

Description automatically generatedText

Description automatically generated

Modules are *deferred* by default

A screenshot of a computer screen

Description automatically generated with medium confidence

Object:

* here creating object directly without class template

objects are typically constants, we can change the properties of the object inside the container, but can’t remove or replace the object from the container

e.g. call constant name, use = symbol to set the contents to something else, won’t compile. I.e. you can change its properties, but can’t change it something completely different

Text

Description automatically generatedA picture containing text

Description automatically generated

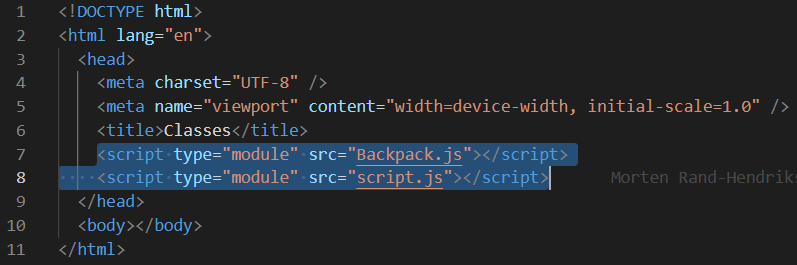
Classes / Class:

Q: can an object created from a class have the same name as the class?

A: No, if the class is a constant, this will cause an error. If the class is not a constant, the new object will overwrite the class.

Text

Description automatically generatedText

Description automatically generatedText

Description automatically generated

Object construction function:

This is the old way of doing things, not advised b/c can’t be extended like a class.

Text

Description automatically generated

**Template literal**, injecting Javascript into HTML, note, use back tick

Text

Description automatically generated

Traditional string output, output a mix of HTML and Javascript expressions

Old way of doing things, now use Template literal

Text

Description automatically generated

**querySelector**, **querySelectorAll** (in browser console)

Text

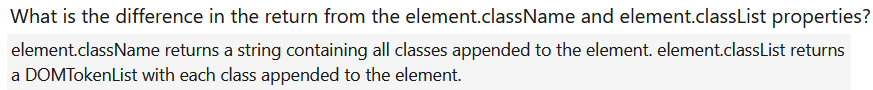
Description automatically generated with medium confidence

Element.**classList**, **classList**

<https://developer.mozilla.org/en-US/docs/Web/API/Element/classList>

A picture containing text

Description automatically generated



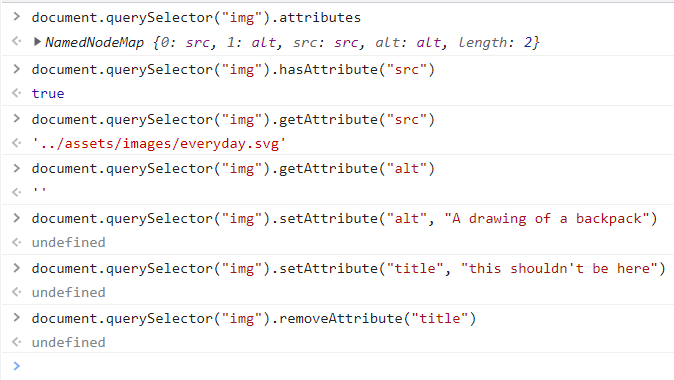
Graphical user interface, text, application, website

Description automatically generated Graphical user interface, text, application

Description automatically generated

Element.**attributes**, **attributes**

Text

Description automatically generated

**Inline** CSS **style**

Graphical user interface, text, application, email

Description automatically generated Text, chat or text message

Description automatically generated

**Append** Template Literal to Main, add DOM elements, **main.append()**, **ParentNode.append()**

if want to add to the beginning, ParentNode.**prepend()**

Other methods: Node.**appendChild**(), Node.**replaceChild**(), Node.**insertBefore**(), Node.**insertAdjacentElement**()

Text

Description automatically generated Text

Description automatically generated

another example

Text

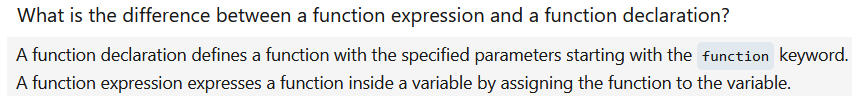
Description automatically generated Text

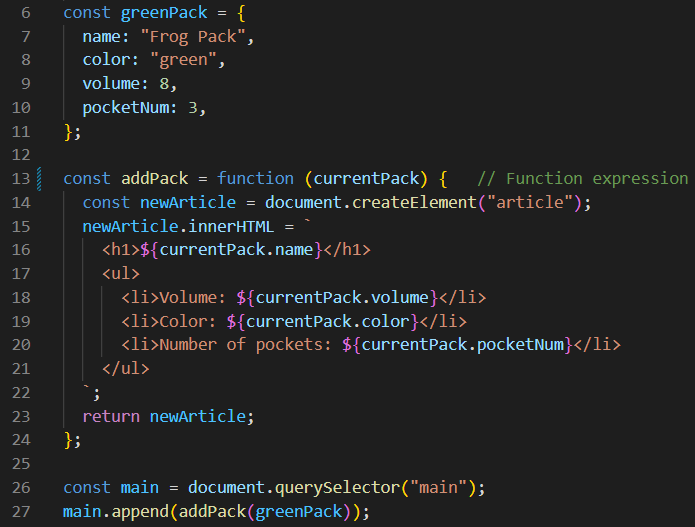
Description automatically generated

Function Expression:

Do not use function expression, b/c of scoping issues. Use arrow function. <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions>

Arrow function cannot be used to define an object method, hence in example – newVolume: function (volume) {};



Text

Description automatically generated

Arrow function:

<https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions/Arrow_functions>

Graphical user interface, text, application, email

Description automatically generatedText

Description automatically generated

**for loop:**

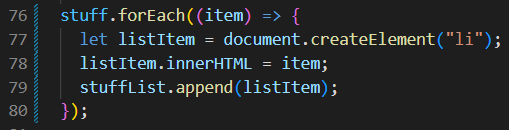
for … of: loop through data structure (e.g. array)

for … in: loop through nested object

Text

Description automatically generated

forEach loop



Array map(), map

Text

Description automatically generated

Eventlistener, eventlistener

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated