**ID:**

Jele a CSS-ben: ﻿\texttt{\#}#﻿

A HTML szabvány szerint minden elemnek adhatsz egyedi azonosítót az oldalon, ez az ID. Ezt az ID-t a CSS fájlban, amikor kiválasztasz egy elemet, kettőskereszttel jelölheted.

Ha például az ID az, hogy **head**, akkor a szelektora az lesz a CSS-ben, hogy ﻿\texttt{\#head}#head﻿.

Fontos korlátozás, hogy egy ID -t csak egyszer használhatsz, mert az egyértelműen tartozik egy elemhez.

**Class selector:**

Jele : .

Elemek kiválasztása az osztály alapján.

Nézd meg az alábbi példát, ahol a diveket az osztály alapján választom ki. Mivel mind a kettő ugyanahhoz az osztályhoz tartozik, ha az osztályra adom meg a stílusokat, automatikusan mind a kettő megkapja őket:

**DIV:**

A ﻿\texttt{<div>}<div>﻿ egy osztást (division) hoz létre az oldalon. Blokk szintű elem, és alapból nagyon kevés beállítása van, ezért a designerek is szeretnek vele dolgozni.

**SPAN:**

A div-től eltérően nem blokk, hanem inline elem. Leginkább akkor hasznos, ha egy szövegből egy részletet szeretnél másképp megformázni.

**CSS Box Model - Hajtogassunk dobozt!**

Az úgynevezett doboz modell azt mutatja meg, hogyan épülnek fel az elemek, és hogyan helyezkednek el egymáshoz képest a böngészőben.

**Margin**

Kívülről befelé haladva az első eleme a box-modellnek a ﻿\tt marginmargin﻿.

Ez nem része konkrétan az elemnek, ez az elhagyás az elem körül.

Magyarul margónak is nevezhetjük. A legtöbb elem rendelkezik alapértelmezett marginnal, ezt tudjuk a saját CSS szabályainkkal felülbírálni.

**Meg lehet adni oldalanként vagy egy utasítással is:**

* **oldalankénti megadás:**  ﻿\tt margin\text{-}topmargin-top﻿, ﻿\tt margin\text{-}rightmargin-right﻿, ﻿\tt margin\text{-}bottommargin-bottom﻿, ﻿\tt margin\text{-}leftmargin-left﻿
* **megadás egyben:** ﻿\texttt{margin: top right bottom left}margin: top right bottom left﻿
* **megadás páronként:**﻿\tt margin: top\text{-}bottom\,\,\, right\text{-}leftmargin:top-bottomright-left

**Box-shadow**

A ﻿ \tt box{\text{-}}shadowbox-shadow﻿ az elemet körülvevő vetett árnyék. A CSS3 hozta be.

Az alábbi séma szerint lehet megadni, amit a videóban részletesen elmagyarázok:

﻿ \tt box{\text{-}}shadow: none|h{\text{-}}shadowbox-shadow:none∣h-shadow﻿ ﻿ \tt v{\text{-}}shadow\,blur\,spread\,colorv-shadowblurspreadcolor﻿ ﻿ \tt|inset|initial|inherit;∣inset∣initial∣inherit;

**%, em, rem:**

﻿\texttt{\%}%﻿: a méretet a befogadó elem méretének százalékában adja meg

﻿\texttt{em}em﻿: a betűméret, 1 esetén megegyezik, de például az 1.5 másfélszeres

﻿\texttt{rem}rem﻿: root em, nem a szülő elem em-jét nézi, hanem a ﻿\texttt{<html>}<html>﻿ elemét

**Display vs.visibility**﻿

A ﻿ \tt displaydisplay﻿ tulajdonság az elem megjelenítését befolyásolja.

Azt mondja meg, hogy a böngészőnek figyelembe kell-e vennie az elemet az oldal megjelenítésekor, és ha igen, akkor hogyan.

Használata: ﻿ \tt display: inlinedisplay:inline﻿﻿ \tt |block|flex∣block∣flex﻿﻿ \tt |inline{–}block|none∣inline–block∣none﻿

A "none" érték azt írja elő, hogy nem kell megjeleníteni az elemet. A megjelenített oldalon a böngésző nem foglal helyet az elemnek, ezért a felhasználó nem láthatónak érzékeli.

Ezzel szemben a ﻿ \tt visibilityvisibility﻿ csak a láthatóságot módosítja.

Tehát ha elrejtjük vele az elemet, akkor a helyfoglalás megmarad.

Használata: ﻿ \tt visibility: visiblevisibility:visible﻿﻿ \tt |hidden|collapse∣hidden∣collapse﻿﻿ \tt |initial|inherit;∣initial∣inherit;

**Position**﻿ **- Helyezkedjünk kicsit!**

Azt adhatjuk meg vele, hogyan legyen kalkulálva az elem pozíciója.

* ﻿ \texttt {position: static;}position: static;﻿ ez az alapértelmezett, a helyzet a többi elemtől függ.
* ﻿ \texttt {position: relative;}position: relative;﻿ a helyzet a saját normál pozíciótól függ.
* ﻿ \texttt {position: fixed;}position: fixed;﻿ a böngészőablakhoz képest helyezkedik el.
* ﻿ \texttt {position: absolute;}position: absolute;﻿ a helyzet az első nem static elemtől függ.

**RGB (red, green, blue) színmegadás**

A monitor három alapszínből keveri ki az összes többit.

**Red (vörös), Green (zöld), Blue (kék)**

A színek intenzitását egy 256-os skálán lehet megadni, 0-255-ig. (2 a 8-adikon)

Összesen 256 \* 256 \* 256 színnel gazdálkodhatunk, azaz több mint 16 millióval.

Példák:

**vörös:** ﻿ \tt rgb(255,\,0,\,0)rgb(255,0,0)﻿

**zöld:** ﻿ \tt rgb(0,\,255,\,0)rgb(0,255,0)﻿

**kék:** ﻿ \tt rgb(0,\,0,\,255)rgb(0,0,255)﻿

**sárga:** ﻿ \tt rgb(255,\,255,\,0)rgb(255,255,0)﻿

**fehér:** ﻿ \tt rgb(255,\,255,\,255)rgb(255,255,255)﻿

**fekete:** ﻿ \tt rgb(0,\,0,\,0)rgb(0,0,0)﻿

**Átlátszóság** (alpha csatorna):

Ha azt szeretnénk, hogy az átlátszóság mértékét is tudjuk állítani a színnel együtt, akkor egy negyedik értéket is megadunk: ez az alpha csatorna, ami 0-1 között lehet. Ekkor ﻿\tt rgbargba﻿ lesz a zárójel előtt, például így:

﻿ \tt rgba(255,\,128,\,44,\,0.2)rgba(255,128,44,0.2)﻿

﻿ \tt rgba(255,\,128,\,44,\,0.95)rgba(255,128,44,0.95)﻿

Ez csak minimálisan látszik át.

﻿ \tt rgba(255,\,128,\,44,\,0)rgba(255,128,44,0)

**Hexadecimal (a 16-os számrendszer szépségei)**

Gyakorlatilag a logikája megegyezik az rgb színmegadással, csak nem tízes, hanem tizenhatos számrendszerben adjuk meg a színek fedettségét.

Az öreg rókák szeretik, mert kevesebbet kell írni, és ezt szokták meg :)

Pár átváltás a kettő között:

* ﻿ \tt rgb(255, 255, 255)rgb(255,255,255)﻿ ﻿ \tt =\#FFFFFF\,=#FFFFFF﻿ fehér
* ﻿ \tt rgb(66, 134, 244)rgb(66,134,244)﻿ ﻿ \tt =\#4286f4=#4286f4﻿
* ﻿ \tt rgb(244, 92, 66)rgb(244,92,66)﻿ ﻿ \tt =\#f45c42=#f45c42﻿
* ﻿ \tt rgb(0, 0, 0)rgb(0,0,0)﻿ ﻿ \tt =\#000000\,=#000000﻿ fekete
* **Attribute szelektor**
* Az elemet valamilyen tulajdonsága alapján választja ki.
* A tulajdonság nevét és értékét egyenlőségjellel elválasztva, szögletes zárójelek között adjuk meg.
* pl.: ﻿\texttt{[type="button"]}[type="button"]﻿
* Ha nem adunk meg értéket, akkor azokat az elemeket jelöli ki, ahol a tulajdonság létezik.
* pl.: ﻿\texttt{[disabled]}[disabled]﻿
* **Jele:** ﻿\texttt{[ ]}[ ]﻿
* **Előnye:** külön formázást adhatunk meg egy elemnek - eltérő tulajdonságok esetén.
* **Hátránya:** böngésző támogatása nem teljesen egységes.

**[attribute^=value]**

példa: a[href^="https"]

Kiválasztja az összes olyan elemet, aminek az adott attribútuma a megadott szöveggel kezdődik.

**[attribute$=value]**

példa: a[href$=".pdf"]

Kiválasztja az összes olyan elemet, aminek az adott attribútuma a megadott szöveggel végződik.

**[attribute\*=value]**

példa: a[href\*="training360"]

Kiválasztja az összes olyan elemet, aminek az adott attribútuma a megadott szöveget bárhol tartalmazza.

**Pszeudo szelektorok**

A pseudo szó hamisat jelent.

Azért ez a nevük, mert olyan tulajdonságokra vonatkoznak, amelyeket a böngésző automatikusan rendel az elemekhez.

Például ha az elem fölé visszük az egeret, vagy kattintottunk már egy linkre.

Az eredeti szelektor után kell kettősponttal írni, pl.:

﻿ \texttt {a: hover\,\,/\*\,\,}a: hover/\*﻿ vagy ﻿ \,\, \texttt {\*/\,\,a: visited}\*/a: visited﻿

**Fontosabb pszeudo osztályok:**

* ﻿\texttt{:hover}:hover﻿(ha az elem fölé viszik az egeret),
* ﻿\texttt{:visited}:visited﻿ (azok a linkek, amelyekre már kattintottak),
* ﻿\texttt{:active}:active﻿ (ha a felhasználó használ egy elemet, mondjuk rákattint),
* ﻿\texttt{:focus}:focus﻿ (elsősorban input mezőknél, ha éppen használjuk),
* ﻿\tt :first\text{-}child:first-child﻿ / ﻿\tt :last\text{-}child:last-child﻿ (a szülő elem első, illetve utolsó gyereke),
* ﻿\tt :nth\text{-}child(n):nth-child(n)﻿ (az n-edik gyereke a szülő elemnek),
* ﻿\texttt{:empty}:empty﻿ (olyan elem, aminek nincs gyereke, azaz nem tartalmaz beágyazott elemet),
* ﻿\texttt{:checked}:checked﻿ (a kiválasztott checkbox),
* ﻿\texttt{:disabled}:disabled﻿ (letiltott elem).

**Bootstrap - rácsrendszer**

Hogy gyorsabb legyen az egyes elemek szélességét megadni, a Bootstrap bevezette az úgynevezett rácsrendszert. Ez arra való, hogy az elemek szélessége százalékosan igazodjon a befogadó ablak szélességéhez.

**Row - (sor)**

Úgy kell elképzelni ezt a rácsrendszert, mint egy táblázatot. Vannak benne sorok és oszlopok, ahol találkoznak, ott vannak a cellák. Ha új tartalmat szeretnél létrehozni, akkor először mindig kell egy sor, amibe majd beleteszed az oszlopokat.

Ez alapvetően egy div, amit a row osztályhoz kell rendelned:

﻿\texttt{<div class="row"></div>}<div class="row"></div>﻿

**Col - column (oszlop)**

Tehát az oszlopokat soha ne önmagukban használd, hanem mindig egy soron belül.

Ezek is div-ek, és ﻿ \tt col{\text{-}}\*col-∗﻿ kezdetű osztályokhoz kell rendelned őket.

**A Bootstrap minden sort 12 oszlopra oszt fel!**

**Öt méretosztályt különböztet meg az oldal szélessége alapján:**

![A képen asztal látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcCAzAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMQAAkpIAAgAAAAMwMQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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BAL/eQ+3PrjuxGpr/jC4PizwSnh/Uo5NL1maUTGNUdZkCAjkgkYPpg+tbr+OvDkelapqT6ji00mc217J5En7qQEDbjbluo5AIrz/Rfhxr2iSeBI3iiuBpd3c3F+8MihIBJyFUMQWA6cA1naz4L8cJpHjLQNN0G3u7XWL83sN8b9EyCynYIzzuwOrFRwevGQD0nVfiT4S0SeWHVdYS2khhjnZWhkJ2P90jC/MT6DJHcUWfxJ8IahrNnpVlrlvPe3sYkgjRWIYEZA3Y2huPukg+1c3B4P1ceNta1CXT1Nvc+Ho7KCQyId0wTBTGcjnuePeszTvAeu2vh/4eW39lrHNo9802oKssf7oEk7shvmz/s5NAHY3/xU8F6ZcTQX+uxwyw3JtZEaGTKyDqMbegz977vvXVGeIW5uDKghCbzIWG0LjOc+mO9eTyeBNbfwt8Q7Y6WjXes3zS2IMseZkyCpzu+XnJw2K7e48P3Oo/DE+H5JPsl1NpgtWbIPlv5e3qM8Z9KBkOkfE7wdr2uf2RpWuwz3xLBY9jqHI6hWZQre2CcjkcVNa/ETwre66dGttXjfUVmkgNuYnBDoMtnK4AA/i6HBwTXBaf4V8Y6t/wAIno2reH7XR7Lw1cJM2opfJL9pEYwAiKMru68/z4rb8LeC9UttL8cWt9CLGbWr64a2n3q+6N1wrfKTgZJ4ODQIoeKvi3pt1caTaeCfEEMt02sQW12iw53xMxDbS64YcfeX255rr734keEdO8SLoN7rkEWpM4TyirFVY9FZwNqn2JFeaL4R8c3Ph/wtoU/haztoNA1OGR7tL+NmnRWJMirxtGOTk7jkcdap33ws8Tp4l1O1mtdX1DSdS1E3TT6frkNrCFZgcvBIjFnX19higD1q7+IXhex8QNod1qyRamsscP2YxSFi8n3QPlwfcg4GRnGaxPDPjm3svD0t74t8SWt2JtWks7e4htpERTn5YyPLXBHOWIx/tHrUvhnwxqGm/FTxRrN5a7bO8ht47S5aRGMm1cPwDkcgdQK45Ph74kbwlp9hNpQaWPxT9vmiaeIj7PuzuPzYPH8PX2oA9K0Xx74X8Q29/PpGsQTxaeM3TkNGIhz82WAyvB+YccdapaT8U/BmuahbWOla5HcXV1KYoohBKrMwGT1UYGO54PrXKeJ/Aer6r4i8bTwxxWdpqulww29y8qBZJEIJVhnIBxjJFYnna5P8Rvh5p+u6FaaTdWCyIIYbpZ5WjWMDzDsG1EODgZJyDQB7pRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUARr/wAfT/7i/wA2qSo1/wCPp/8AcX+bVJQBzD+KJ7C31SDUYY21K0nWO3hhBAuVlOICMknk/K3oVY9Ktx+KNPguYrC/us3YZYZZorSUWwmOPk83BRSScBS+ckDqaZqWitdeNtG1RbZXS0hnSSXcPlJA2cZ5/ixxxk+tc7aeFGhv5LLUtG1e8je+edbuLWnWzKtKZAWh88EEZ5URkEgeuQwOsXxJprax/ZqSXD3HmGIslpK0IcDJUyhfLDY7bs1q1yFtY6pD4w83TNP1DTbSS4eS+865hktLpcEBo03NIjk7TwqA/NuycZ6+kAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVlap/x9L/uD+ZrVrK1T/j6X/cH8zTQmaMX+sm/3/8A2UVJUcX+sm/3/wD2UVJSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAFe/sLbVNOuLG+j822uY2ilTcV3KRgjIwR+FYfhr4feFvCFzLceHtIitJ5V2tKXeR8egZySB6gYzgeldJRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUARr/wAfT/7i/wA2qSo1/wCPp/8AcX+bVJQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABWVqn/AB9L/uD+ZrVrK1T/AI+l/wBwfzNNCZpNDE7bnjRie5UGk+zw/wDPGP8A75FFFIYfZ4f+eMf/AHyKPs8P/PGP/vkUUUAH2eH/AJ4x/wDfIo+zw/8APGP/AL5FFFAB9nh/54x/98ij7PD/AM8Y/wDvkUUUAH2eH/njH/3yKPs8P/PGP/vkUUUAH2eH/njH/wB8ij7PD/zxj/75FFFAB9nh/wCeMf8A3yKPs8P/ADxj/wC+RRRQAfZ4f+eMf/fIo+zw/wDPGP8A75FFFAB9nh/54x/98ij7PD/zxj/75FFFAB9nh/54x/8AfIo+zw/88Y/++RRRQAfZ4f8AnjH/AN8ij7PD/wA8Y/8AvkUUUAH2eH/njH/3yKPs8P8Azxj/AO+RRRQAfZ4f+eMf/fIo+zw/88Y/++RRRQAfZ4f+eMf/AHyKPs8P/PGP/vkUUUAH2eH/AJ4x/wDfIo+zw/8APGP/AL5FFFAB9nh/54x/98ij7PD/AM8Y/wDvkUUUAH2eH/njH/3yKPs8P/PGP/vkUUUAH2eH/njH/wB8ij7PD/zxj/75FFFAB9nh/wCeMf8A3yKPs8P/ADxj/wC+RRRQAfZ4f+eMf/fIo+zw/wDPGP8A75FFFAB9nh/54x/98ij7PD/zxj/75FFFAB9nh/54x/8AfIo+zw/88Y/++RRRQAfZ4f8AnjH/AN8ij7PD/wA8Y/8AvkUUUAH2eH/njH/3yKPs8P8Azxj/AO+RRRQAfZ4f+eMf/fIo+zw/88Y/++RRRQAfZ4f+eMf/AHyKPs8P/PGP/vkUUUAH2eH/AJ4x/wDfIo+zw/8APGP/AL5FFFAB9nh/54x/98ij7PD/AM8Y/wDvkUUUAH2eH/njH/3yKPs8P/PGP/vkUUUAH2eH/njH/wB8ij7PD/zxj/75FFFAB9nh/wCeMf8A3yKPs8P/ADxj/wC+RRRQAfZ4f+eMf/fIo+zw/wDPGP8A75FFFAB9nh/54x/98ij7PD/zxj/75FFFAB9nh/54x/8AfIo+zw/88Y/++RRRQAfZ4f8AnjH/AN8ij7PD/wA8Y/8AvkUUUAH2eH/njH/3yKPs8P8Azxj/AO+RRRQAfZ4f+eMf/fIo+zw/88Y/++RRRQAfZ4f+eMf/AHyKPs8P/PGP/vkUUUAH2eH/AJ4x/wDfIo+zw/8APGP/AL5FFFAB9nh/54x/98ij7PD/AM8Y/wDvkUUUAH2eH/njH/3yKPs8P/PGP/vkUUUAH2eH/njH/wB8ij7PD/zxj/75FFFAB9nh/wCeMf8A3yKPs8P/ADxj/wC+RRRQAfZ4f+eMf/fIo+zw/wDPGP8A75FFFAB9nh/54x/98ij7PD/zxj/75FFFAB9nh/54x/8AfIo+zw/88Y/++RRRQAfZ4f8AnjH/AN8ij7PD/wA8Y/8AvkUUUAH2eH/njH/3yKPs8P8Azxj/AO+RRRQAfZ4f+eMf/fIo+zw/88Y/++RRRQAfZ4f+eMf/AHyKPs8P/PGP/vkUUUAH2eH/AJ4x/wDfIo+zw/8APGP/AL5FFFAB9nh/54x/98ij7PD/AM8Y/wDvkUUUAH2eH/njH/3yKPs8P/PGP/vkUUUAH2eH/njH/wB8ij7PD/zxj/75FFFAB9nh/wCeMf8A3yKPs8P/ADxj/wC+RRRQAfZ4f+eMf/fIo+zw/wDPGP8A75FFFAB9nh/54x/98ij7PD/zxj/75FFFAB9nh/54x/8AfIo+zw/88Y/++RRRQAfZ4f8AnjH/AN8ij7PD/wA8Y/8AvkUUUAf/2Q==)

*Megjegyzés: ha megnézed a képet, látod, hogy melyik osztály melyik méret esetén működik.*

**Oszlopok száma:**

Az adott oszlopszélességet úgy tudod megadni, hogy az előtag után írod az oszlopok számát.

**Példa 1:** a ﻿ \tt col{\text{-}}sm{\text{-}}12col-sm-12﻿ azt jelenti, hogy telefon méretben teljes szélességű.

**Példa 2:** a ﻿ \tt col{\text{-}}xl{\text{-}}3col-xl-3﻿ nagy képernyőn 1/4 szélességű, mert a 12/3 = 4.

**Példa 3:** a ﻿ \tt col{\text{-}}md{\text{-}}6\,\,col{\text{-}}sm{\text{-}}12col-md-6col-sm-12﻿ közepes képernyőn 1/2, kicsin pedig teljes szélességű.

**Mobile first - elsősorban telefonra**

A Mobile first kifejezés azt jelenti, hogy ha csak a telefon méretre adod meg az oszlopok szélességét, akkor az összes nagyobb méret esetén is az marad érvényben.

De ha mondjuk megadod col-md esetén is az oszlopok számát, de col-lg esetén nem, akkor az lg esetén is az md marad érvényben. Tehát alulról felfelé nézi a beállításokat, mindig a kisebb az erősebb.

  /\* \*/

        let name; /\* deklarált de nem definiált változó \*/

        const age = 44

        /\* konstans változó, nem módosítható a definiálás után\*/

        let num = 4;

        /\*

        num.

        bele lép az adott változóba, és felkínál lehetőségeket

        \*/

       /\* typeof a változó típusának lekérése

       változó.lenght változó hossza

       összefűzés: string1 + "valami"

       változó kiürítése: változó=null

       változó átalakítása:

       implicit típuskonverzió

       a program automatikusan megpróbálja átalakítani a változó típusát

       pl:

       let door= "11"

       door \* 2 = 22

       összeadásnál nem lesz jó, door+2= 112, összefűzi stringként

       Explicit tipuskonverzió:

       általam megadott típus

       String(valami)

       Door= Number(Door)

       a változóban megadott szám számként lesz tárolva

       Ha number a változó és szöveg van benne: az eredmény NaN lesz

       Típuskonverzió utasításokkal

        Door.toString()

        Door.to.Number()

        változó.toFixed()

        levágja a szám tizedesjegyeit az adott mennyiségre

        Változó.toPrecision()

        az adott darab számjegyet írja ki

        Számot készít stringből

        parseInt("22") =22

        parseInt("22hal")= 22

        parseInt("hal22")= NaN

        CSak akkor működik ha számmal kezdődik

        parseFloat(22.33hal)= 22.33

        tizedes pontot felismeri

       \*/

 <script>

        document.querySelector("input[name='amount-input']")

        let amountInput= document.querySelector("input[name='amount-input']");

        let price= 1200;

        let amount= 0;

        amount= parseInt(amountInput.value)\*price;

    </script>

**Logikai kifejezés**

Olyan kifejezés, amely kiértékelése után ﻿\tt truetrue﻿ vagy ﻿\tt falsefalse﻿ értéket ad vissza.A logikai kifejezések értékekből és operátorokból épülnek fel, például ﻿\texttt {x > y}x > y﻿ egy logikai kifejezés, mert csak két eset lehetséges, hogy nagyobb vagy nem. Ha nagyobb, akkor **true** lesz az értéke, ha nem (azaz kisebb vagy egyenlő), akkor pedig **false.**

**Logikai operátorok**

Logikai kifejezésekben a következő operátorokat használhatod:

* **<** kisebb,
* **>** nagyobb,
* **<=** kisebb vagy egyenlő,
* **>=** nagyobb vagy egyenlő,
* **==** megegyező érték,
* **===** megegyező érték és típus,
* **!=** nem megegyező érték,
* **!==** nem megegyező érték és típus,
* **!** tagadás - logikai érték megfordítása,
* **&&** és,
* **||** vagy

A logikai kifejezésekre szintén érvényesek a zárójelezés szabályai.

**Függvények használata**

Ahhoz, hogy használni tudj egy függvényt, legalább két lépésre van szükség:

* **Declaration:**megadom a függvény nevét, és leírom a működését.
* **Invocation:**a kód megfelelő helyén meghívom (elindítom) a függvényt.

**Deklarálás**

Függvényt a ﻿ \tt functionfunction﻿ kulcsszóval hozhatsz létre. Két lehetőséged van:

* ﻿ \tt function\,\,\,function﻿﻿ \tt testFunction(\,)\,\{ ...\}testFunction(){...}﻿: ez a függvény deklaráció
* ﻿ \tt let\,\,\,let﻿﻿ \tt testFunction(\,)\,\{ ...\}testFunction(){...}﻿: ez a függvény expression (úgy adod meg, mint egy változót)

A két megadási mód között nincs működésbeli különbség.

A teljes szintaxis:

﻿ \texttt {function name(parameter1,}function name(parameter1,﻿ ﻿\texttt {parameter2, ...,}parameter2, ...,﻿ ﻿\texttt {parameterX)}parameterX)﻿ ﻿ \texttt {\{ // a futtatható kód }\}{ // a futtathatoˊ koˊd }﻿

**Invocation - függvény meghívása**

Az invocation, azaz a függvény meghívása azt jelenti, hogy elindítod a függvényt, az pedig végrehajtja a feladatát. Ezt a függvény neve után tett zárójelekkel teheted meg. Ezt hívják függvényhívásnak, azaz **call**-nak:

function myFunction(a, b) { alert("Hello Dude!"); } // megjelenít egy üzenetet, amikor meghívják a függvényt

myFunction(); // az üzenet megjelenik

**Függvény vagy eljárás?**

Ha egy függvény nem ad vissza semmilyen adatot miután végzett a feladatával, azt eljárásnak szoktuk hívni. A függvények a futásuk végén visszaadnak valamilyen értéket. Ezt a ﻿ \tt returnreturn﻿ kulcsszóval tudod meghatározni:

function myFunction(a, b) { return a \* b; } // a függvény visszaadja az a és b szorzatát

var x = myFunction(4, 3); // tehát az eredmény 12 lesz, ami bekerül az x változóba

**Paraméterre fel!**

Ahogy a metódusoknál láttad, a függvényeket paraméterekkel tudod ellátni.

**paraméter - argumentum:**bemenő adat, amellyel a függvény műveleteket végez.

**Paraméterek sorrendje**

A paraméterek ugyanabban a sorrendben kerülnek feldolgozásra, ahogyan azt megadtad a függvény létrehozásánál. Ezért vigyázni kell, ne hagyj ki paramétereket, mert nem ugyanazt fogja érteni a függvény, mint amit megadtál:

var name = 'Joe';

var job = 'programmer';

function showPerson(name, job) {

document.querySelector('.card').innerHTML = 'Név: ' + name + ', munka: ' + job;

}

showPerson(name, job);

showPerson(job, name);

Az első esetben azt írja ki: ﻿ \texttt {Név: Joe,}Neˊv: Joe,﻿﻿ \texttt { munka: programmer} munka: programmer﻿

majd utána: ﻿ \texttt {Név: programmer,}Neˊv: programmer,﻿ ﻿ \texttt { munka: Joe} munka: Joe﻿

**arguments - Paraméterek ellenőrzése**

Az ﻿ \tt argumentsarguments﻿ tömb tartalmazza a függvény által kapott paramétereket. Ezzel le is tudod ellenőrizni, hogy megfelelő paramétereket kaptál-e.

**default paraméter**

A JavaScript legújabb verziójában már vannak úgynevezett alapértelmezett vagy default értékei a paramétereknek, de ezt még nem minden böngésző támogatja. Ezért magunknak kell leellenőrizni a paramétereket, és ha nem megfelelő az értékük, akkor beállítani valami értelmesre:

var name = 'Joe';

var job = 'programmer';

var card = document.querySelector('.card');

function showPerson(name, job) {

  name = name || 'Balázs';

  job = job || 'admin';

  card.innerHTML = 'Név: ' + name + ', munka: ' + job;

}

showPerson();

**Az új szabvány szerint:**

function showPerson(name = 'Balázs', job = 'admin') {

  card.innerHTML = 'Név: ' + name + ', munka: ' + job;

}

showPerson();

**Scope**

Azt jelenti angolul, hogy terület, hatáskör, esetleg kiterjedés. A változók scope-ja az a része a programkódnak, ahol a változóval lehet dolgozni, el lehet érni. Azaz egy változó nem használható a teljes programban, csak a scope-jában. Kifejtem részletesebben, figyelj!

**Egy alapvető szabály**

**A scope-ból kifelé mindig lehet látni, de befelé nem.**

Mit jelent ez? Képzeld el, hogy egy olyan fólia van az ablakon, amitől látod, hogy mi van kint, de kintről nem látnak be. Pont így működik a js scope is. Egy scope-ban az összes változóval tudsz dolgozni, amit a sope-on kívül hoztak létre, de ha a scope-on belül van egy másik scope, abba nem látsz bele. Tehát a gyerek scope változóival nem tudsz dolgozni. A következőkben változó fajtánként is kifejtem neked a dolgot.

﻿ \tt \bold{var}**var**﻿ **scope**

A js 2015 előtti verziójában egyféleképpen lehetett változókat létrehozni: a ﻿\tt varvar﻿, azaz variable kulcsszóval.

**function scope:** A ﻿ \tt varvar﻿ paranccsal létrehozott változó függvény hatáskörű volt. Ez azt jelenti, hogy vagy a kód gyökerében, vagy abban a függvényben lehetett csak használni, ahol létrehozták. Ha máshonnan akartad elérni, akkor hibát kaptál. Tehát a függvényekben létrehozott változóid nem voltak elérhetőek (láthatóak) a függvényen kívül.

**local scope:**a függvény saját scope-ját lokális scope-nak is nevezzük.

**global scope:** a függvényen kívül eső területet pedig globális scope-nak hívjuk. Az, hogy egy scope globális vagy lokális ugye attól függ, hogy honnan nézed. Erre hozok most néhány példát.

**Lokális változó definiálása**

// Global scope: a carName változót itt nem használhatod

function myFunction() {

  var carName = "Volvo"; // Local scope: Itt használhatod a carName változót

}

myFunction();

console.log( carName ); // Uncaught ReferenceError: carName is not defined

**Mit láttál most?**

* Létrehoztam egy függvényt, amiben definiáltam a ﻿ \tt carNamecarName﻿ változót.
* Le is futtattam a függvényt, így a ﻿ \tt carNamecarName﻿ változó biztosan létre is jött a függvényben.
* Megpróbáltam kiíratni a console-ra a változót, de a kommentben látható hibát kaptam.
* Milyen hiba? ﻿ \tt Uncaught\,\,ReferenceErrorUncaughtReferenceError﻿: váratlan vagy kezeletlen referencia hiba. Azaz olyan dologra - változóra hivatkoztam, olyan változóval akartam dolgozni, ami nem létezik. ﻿ \tt carName\,\,is\,\,not\,\,definedcarNameisnotdefined﻿ Szép passzív angol szerkezettel meg van mondva: a ﻿ \tt carNamecarName﻿ változó nincs definiálva, nem lett létrehozva. Azt mondod: dehogynem, hát a függvényben ott van. Igen ám, de a függvénybe nem látunk bele a globális scope-ból, tehát számunkra nem létezik ott, ahol a ﻿ \tt loglog﻿ parancsot kiadtam.

**Globális változó definiálása**

A globális változó előnye, hogy a kódon belül bárhol eléred. Hátránya, hogy így a program több memóriát fogyaszt. Miért is? Hát azért, mert amikor egy függvényt elindít, akkor át kell adnia neki az összes globális változót, mert nem tudhatja hogy használni akarod-e valamelyiket. Ezért ha lehet, mindig lokális változókkal dolgozz!

// Global scope: a carName változót itt használhatod, mert itt hoztad létre

var carName = "Volvo";

function myFunction() {

    // Local scope: Itt is használhatod a carName változót, mert globális

  console.log( carName ); // "Volvo"

}

myFunction();

console.log( carName ); // "Volvo"

**Fontos: ugyanaz a példa, de a ﻿\tt carNamecarName﻿ globális változó. Mind a két alkalommal el tudom érni: a függvényben és a globális scope-ban is.**

**Let**

A 2015-ös js szabványban hozták be a ﻿ \tt letlet﻿ kulcsszót. A tananyagban ezt használjuk már a ﻿ \tt varvar﻿ helyett, mert hatékonyabb és takarékosabb, mint a másik.

**A blokk**

A js kód blokkokból épül fel. Ezeket kapcsos zárójelekkel ﻿\tt \{\}{}﻿ jelölik. Egy tipikus blokk ilyen:

﻿ \tt \{ \,\,\,\,var\,\,x\,\,=\,\,2;\,\,\,\,\}{varx=2;}﻿

﻿ \tt \bold{let}**let**﻿ **scope**

A ﻿ \tt letlet﻿ kulcsszóval létrehozott változók block scope-úak, azaz egy blokkon belül lehet elérni őket. Ez fontos különbség, mivel így a változó kisebb kódrészben érhető el. Viszont amikor az adott blokk lefut, hamarabb is törlődik a memóriából, így takarékosabb tud lenni a program.

**block scope:**a { } zárójelekkel határolt programterület.

{ var x = 2; let y = 3; }

console.log( x ); // 2

console.log( y ); // Uncaught ReferenceError: y is not defined

**Lássuk csak!**

* Az ﻿ \tt xx﻿ változót lazán eléred a blokkon kívül is, mivel az function scope-ú, és nem hoztál létre új függvényt, a hagyományos function scope alapján ugyanabban a scope-ban van.
* Viszont az ﻿ \tt yy﻿ esetén hibát kapsz, mert az block scope-ú és egy blokkban hoztad létre, ahova a global scope-ból nem látsz bele.

﻿ \tt \bold{let}**let**﻿ **módosítása**

A ﻿ \tt letlet﻿ kulcsszóval létrehozott változóknál nem lehet a változót kétszer létrehozni egy scope-ban.

**Blokkon belül nem lehet újradeklarálni:**

let name = "Péter";

let name = "Sándor"; // Uncaught SyntaxError: Identifier 'name' has already been declared

A gondja az, hogy már létre lett hozva azonos néven egy változó, azaz az azonosító már deklarálva van.

**Blokkon belül lokális változó jön létre:**

let name = "Péter";

{

let name = "Sándor";

console.log( name ); // "Sándor"

}

console.log( name ); // "Péter"

Először azt írja ki, hogy "Sándor", majd azt hogy "Péter". A blokkon belül létrehozott ﻿ \tt namename﻿ változó nem azonos a globális ﻿ \tt namename﻿ változóval. Tehát nem a globális változót hoztam létre újra, hanem a blokknak saját változója van.

**Constant**

Ez az angolban is a latinból jön (mint annyi minden más is). Azt jelenti, hogy állandó. Olyan változóról van szó, aminek egyszer lehet csak értéket adni, amikor létrehozod. Később már az értékét nem tudod megváltoztatni. Ilyen értelemben nem is változó, mert nem tudod változtatni. Azért neveztem mégis így, mert a js esetén bizonyos keretek között módosítható (erről majd a tömböknél és az objektumoknál lesz szó).

﻿ \tt \bold{const}**const**﻿ **keyword**

Ha egy változót a ﻿ \tt constconst﻿ kulcsszóval hozol létre, akkor nem adhatsz neki új értéket.

const PI = 3.141592653589793;

PI = 3.14;

// Uncaught TypeError: Assignment to constant variable.

PI = PI + 10;

// Uncaught TypeError: Assignment to constant variable.

**Szabályok:**

* Mindig nagybetűvel írjuk: ﻿ \tt PI,\,START,\,PI,START,﻿﻿ \tt BASE\\_COLORBASE\_COLOR﻿ stb...
* Mindig értéket is kell neki adni, amikor létrehozzuk: ﻿ \tt const\,\,BASE\\_COLOR=255;constBASE\_COLOR=255;﻿

﻿ \tt \bold{const}**const**﻿ **scope**

**block scope:**a ﻿ \tt const const﻿ a ﻿\tt letlet﻿ -hez hasonlóan szintén blokk szintű változó, azaz egy blokkon belül látható. Ha a kód gyökerében hozod létre, akkor mindenhol, ha nem, akkor a saját blokkján belül látható.

const x = 10;

{

  const x = 2;

  console.log( x );

}

console.log( x );

A ﻿ \tt letlet﻿-es példához hasonlóan itt is különböző számokat fogsz látni, a blokkon belül egy másik ﻿ \tt xx﻿ van, aminek az értéke 2, a globális scope -ban pedig a 10 értékű.

﻿ \tt \bold{const}**const**﻿ **redeclare**

Na ez az, ami nem fog menni. Az alábbi példában azt láthatod, hogy ha egyszer egy blokkon belül létrehoztál egy ﻿ \tt constconst﻿ változót, akkor azt semmilyen formában nem tudod újra létrehozni, sem újra definiálni, azaz új értéket adni neki. (Persze az adott blokkon belül, ha nyitsz új blokkot, akkor igen.)

const x = 2; // Rendben

const x = 3; // Hiba

x = 3; // Hiba

var x = 3;   // Hiba

let x = 3;   // Hiba

{

  const x = 2;   // Rendben

const x = 3;   // Hiba

  x = 3;     // Hiba

  var x = 3;   // Hiba

  let x = 3;    // Hiba

}

Ezt jól jegyezd meg!

**Array**﻿ **metódusok**

A tömbök esetén számos metódus áll rendelkezésre az adatok kereséséhez, ellenőrzéséhez, a tömbök vágásához vagy egyesítéséhez. Most csak a legalapvetőbbeket mutatom meg, később a függvények megismerése után visszatérünk még a magasabb szintű metódusokra is.

﻿ \tt \bold{push(\,)}**push**()﻿

Segítségével új elemet tudsz felvenni a tömb végére. Azaz az így felvett elem a tömböd utolsó eleme lesz.

Fontos, hogy ez a metódus megváltoztatja az eredeti tömböt, azaz nem kell felüldefiniálnunk ahhoz, hogy a módosítások érvénybe lépjenek. Miután a metódus lefutott, a tömb új hosszát adja vissza.

**FONTOS: módosítja az eredeti tömböt.**

**﻿ \tt \bold{pop(\,)}pop()﻿**

A ﻿ \tt push(\,)push()﻿ -tól eltérően nem hozzáad, hanem elvesz egy elemet a tömb végéről.

A törölt elemet adja vissza, és szintén azonnal módosul az eredeti tömb.

**FONTOS: módosítja az eredeti tömböt.**

A példában a ﻿ \tt push(\,)push()﻿ és a ﻿ \tt pop(\,)pop()﻿ működését is bemutatjuk:

Play

00:27

-00:33

Mute

Settings

Enter fullscreen

Play

**﻿ \tt \bold{unshift(\,)}unshift()﻿**

A ﻿ \tt push(\,)push()﻿ -hoz hasonlóan működik, csak a tömb elejére ad hozzá új elemet, azaz eggyel hátrébb tolja az elemeket. Hatására minden meglévő tömbelem indexe eggyel nőni fog.

**FONTOS: módosítja az eredeti tömböt.**

**﻿ \tt \bold{shift(\,)}shift()﻿**

Ez pedig a ﻿ \tt pop(\,)pop()﻿ párja, egy elemet kivesz a tömb elejéről, és a többit eggyel előre tolja. Hatására minden meglévő tömbelem indexe eggyel csökkenni fog.

**FONTOS: módosítja az eredeti tömböt.**

A példában az ﻿ \tt unshift(\,)unshift()﻿ és a ﻿ \tt shift(\,)shift()﻿ működését is megmutatom neked:

**ömbök vágása**

A tömbök több ezer vagy millió elemmel is rendelkezhetnek. Hasznos, ha hatékonyan tudod őket vágni, vagy adott helyre új elemeket tudsz beilleszteni. Most erről lesz szó.

﻿ \tt \bold{slice(\,)}**slice**()﻿

A tömböt vágja. Két számot vár, start és end a nevük.

* **start:** azt adja meg, hogy hol kezdje a vágást. Ha 0, akkor a tömb elején kezdi, ha mínusz szám, akkor hátulról fogja számolni.
* **end:** azt adja meg, hogy melyik elemnél fejezze be a vágást. Ugyanazok igazak rá, mint a startra.

**FONTOS: nem módosítja az eredeti tömböt, hanem egy új tömbbel tér vissza.**

Play

00:00

-00:30

Mute

Settings

Enter fullscreen

Play

﻿ \tt \bold{splice(\,)}**splice**()﻿

A ﻿ \tt slice(\,)slice()﻿ -al ellentétben nem csak kivenni lehet elemeket vele, hanem hozzá is lehet adni a tömbhöz.

A szintaxisa a következő: ﻿\tt array.splicearray.splice﻿﻿\tt (index,\,howmany,\,(index,howmany,﻿﻿\tt item1,\,.....,\,itemX)item1,.....,itemX)﻿

Paraméterei:

* **index:** kötelező, azt adja meg, hogy honnan induljon a vágás, olyan mint a slice esetén.
* **howmany:** azt adja meg, hogy hány elemet akarsz eltávolítani.
* **item1, ..., itemX:** azok az elemek, amiket az eltávolított elemek helyére akarsz tenni. Nem kötelező megadni, akkor csak eltávolítás lesz, hozzáadás nem.

**FONTOS: az eredeti tömböt módosítja.**

﻿ \texttt {var fruits =}var fruits =﻿﻿\texttt {["Banana", "Orange", "Apple",}["Banana", "Orange", "Apple",﻿﻿\texttt {"Mango"];}"Mango"];﻿ ﻿ \texttt {fruits.splice(2, 0, "Lemon",}fruits.splice(2, 0, "Lemon",﻿﻿\texttt {"Kiwi");}"Kiwi");﻿

*Megjegyzés: a splice művelet után a fruits tömb így fog kinézni:*

*["Banana","Orange","Lemon","Kiwi","Apple","Mango"]. Azért mert nem vettünk ki egy elemet sem és a 2 indexűtől (azaz a harmadiktól), "Lemon" -tól kezdődően beszúrtam két új elemet.*

﻿ \tt \bold{join(\,)}**join**()﻿

A tömbből ﻿ \tt StringString﻿-et készít, az elemeket vesszővel elválasztva fűzi egymás után.

**FONTOS: nem módosítja az eredeti tömböt, hanem egy új** ﻿ \tt \bold{String}**String**﻿-**gel tér vissza.**

**Paraméterek átadása**

Amikor paramétereket adsz át egy függvénynek, akkor érdekes dolgok történnek a háttérben, ezért nem árt tisztában lenni azzal, hogy a függvények mit kezdenek a nekik átadott adatokkal.

**Primitívek átadása érték szerint**

Kis ismétlés:

**Primitív változó típusok:** ﻿ \tt Boolean,\,Number,\,Boolean,Number,﻿﻿\tt String,\,Undefined,\,NullString,Undefined,Null﻿

Tehát a következő szabályok rájuk vonatkoznak.

**Paraméter átadás érték szerint:** a primitív típusokat másolja a JS. Azaz, amikor átadsz egy ilyen változót a függvénynek, akkor egy másolatot készít az eredetiről és azzal dolgozik.

function callByValue(varOne, varTwo) {

console.log("A függvényen belül");

varOne = 100; varTwo = 200;

console.log("varOne =" + varOne +"varTwo =" +varTwo);

}

let varOne = 10;

let varTwo = 20;

console.log("A függvény hívása előtt");

console.log("varOne =" + varOne +"varTwo =" +varTwo);

callByValue(varOne, varTwo);

console.log("A függvény hívása után");

console.log("varOne =" + varOne +" varTwo =" +varTwo);

Na, kitalálod mi lesz ennek a kimenete? Nem kell, én megmondom:

A függvény hívása előtt

varOne =10 varTwo =20

A függvényen belül

varOne =100 varTwo =200

A függvény hívása után varOne =10 varTwo =20

**Miért ez a kimenet?**

* Létrehoztam a ﻿ \tt varOne varOne﻿ és ﻿ \tt varTwo varTwo﻿ változókat 10 és 20 értékekkel.
* Amikor átadtam őket a függvénynek, akkor kiolvasta az értéküket és ahogy a paraméterlistában megadtam ﻿ \tt callByValue(varOne,\,varTwo) callByValue(varOne,varTwo)﻿ azon a néven létrehozott két lokális változót a függvényben és az eredeti értékeket bemásolta ebbe az két új változóba. Amikor kiíratom a függvényben az értékeket, látszik hogy megváltoztak.
* Mégis amikor az eredeti értékeket újra kiíratom a függvényhívás után, azok változatlanok maradnak. Azért, **mert nem az eredeti változókkal dolgozik a függvény, csak a másolatukkal.**

**Ciklusok**

Folyamatosan ismétlődő programrészletek. Egy ciklus mindaddig ismétlődik, amíg a feltétele igaz. Olyan, mintha azt mondanánk, addig csináld ezt, amíg igaz, hogy ...

**For**

A for ciklus minden programnyelvben megtalálható.

Három paramétere van:

* ciklusváltozó: egy ﻿ \tt Number Number﻿ típusú változó, minden futás után módosítod az értékét.
* feltétel: ﻿ \tt Boolean Boolean﻿, amíg ez a feltétel igaz (a ciklusváltozó értékvizsgálata), addig fut a ciklus.
* léptetés: minden ciklus végén lefut, itt kell a ciklusváltozót növelni/csökkenteni.

**Ciklusmag:**

az az utasítás vagy utasítások, amelyek a feltétel teljesülése esetén lefutnak.

Az alábbi példa egy for ciklust mutat be:

Play

00:00

-00:24

Mute

Settings

Enter fullscreen

Play

**Elöltesztelős ciklus**

Először megvizsgálod, hogy a feltételed igaz-e, és ha igen, akkor lefut a ciklusmag.

Tehát a for egy tipikusan elöltesztelős ciklus.

Fontos megjegyezni, hogy egy for ciklust bármikor átírhatsz while ciklusba. Tehát amit for-al megvalósíthatsz, azt while-al is, csupán a szintaxis más. A while ciklussal később majd foglalkozunk, addig is a legtöbb feladatra tökéletes lesz a for.

**Tömb bejárása ciklussal**

Ha szeretnéd egy kollekció összes elemét végigjárni, és valamilyen vizsgálatot vagy műveletet végezni velük, akkor általában az első elemtől indulsz, lefut a ciklusmag, és növeled az iterátort. Ezt mindaddig kell ismételned, amíg a kollekció végére nem érsz, tehát ismerned kell hozzá a hosszát.

Tömb bejárása for ciklussal:

Play

00:17

-00:37

Mute

Settings

Enter fullscreen

Play

﻿ \tt \bold{continue\,és\,break} **continueeˊsbreak**﻿

﻿ \tt \bold{continue} **continue**﻿**:** ha valamiért úgy döntesz, hogy mégsem akarod lefuttatni a teljes ciklusmagot, akkor a ﻿\texttt{continue}continue﻿ utasítással tovább tudsz ugrani a következő iterációra.

﻿ \tt \bold{break} **break**﻿**:** a ﻿\texttt{break}break﻿ utasítás nem a következő iterációra ugrik, hanem megszakítja a ciklust, azaz a ciklusmag többet nem kerül végrehajtásra, úgy is mondhatnánk, a program *továbbmegy.*

Continue és break használata:

**Compound operators**

Ez azt jelenti, hogy összetett operátorok. Itt arra utalnak, hogy ha több operátort raksz egymás után és ezzel gyorsítod a kódolást.

**Lista**

![A képen asztal látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyNwAAkpIAAgAAAAMyNwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**A fontosak, amiket gyakran használsz majd:**

* Hozzáadás: ﻿ \texttt {x = x + 10} x = x + 10﻿ helyett ﻿ \texttt {x += 10} x += 10﻿
* Kivonás: ﻿ \texttt {x = x - 10} x = x - 10﻿ helyett ﻿ \texttt {x -= 10} x -= 10﻿
* Osztás: ﻿ \texttt {x = x / 2} x = x / 2﻿ helyett ﻿ \texttt {x /= 2} x /= 2﻿
* Modulus (maradék): ﻿ \texttt {x = x \% 2} x = x % 2﻿ helyett ﻿ \texttt {x \%= 2} x %= 2﻿
* Szorzás: ﻿ \texttt {x = x \* 10} x = x \* 10﻿ helyett ﻿ \texttt {x \*= 10} x \*= 10﻿

**Exotikum (nem kötelező tudni, csak agybővítésre):**

Nézzünk egy példát a bitwise, azaz a bitenkénti ÉS műveletekre. Át kell váltani 2-es számrendszerbe és 32 biten ábrázolni a számokat, majd elvégezni rajtuk az AND ﻿ \tt \& &﻿ műveletet:

* a 9: 00000000000000000000000000001001
* a 14: 00000000000000000000000000001110
* ott lesz egy, ahol mindkettőben egy van: 00000000000000000000000000001000
* ha ezt visszaváltod 10-es számrendszerbe, akkor az eredmény: 8
* leírva, ha x = 9 és y = 14: ﻿ \tt x\,\&=\,y x&=y﻿ az 8 lesz. Ennyi.

ű

**Egyszerűsítsünk**

Ha már az értékadásnál összevontuk az operátorokat, miért ne vonnánk össze az if...else esetén is?

**Ternary operator**

Ezt magyarul három operandusos kifejezésnek is szokták hívni.

**Részei:**

**változó neve:** a változó neve

**értékadás:** = ezt ismered, értéket adunk egy változónak

**feltétel:** ﻿ \texttt {4 > 5} 4 > 5﻿ lehet bármilyen kifejezés, amit Boolean -ként ki lehet értékelni

**?:** a kérdőjel után jön az az érték, ami a kifejezés ﻿ \tt true true﻿ értékéhez tartozik

**:** a kettőspont után pedig az, ami a ﻿ \tt falsefalse﻿ értékhez tartozik

**Szintaxis:** ﻿ \texttt {let variablename = (condition) ? value1: value2} let variablename = (condition) ? value1: value2﻿, szóval ha a kondíció igaz, akkor az első, ha nem, akkor a második érték kerül bele a változóba.

**Példák:**

Hagyományos if...else módszerrel:

let age = 33;

let voteable;

if (age < 18) {

voteable = "Too young";

} else {

voteable = "Old enough";

}

console.log( voteable );

Ternary operátorral (az értékadás 5 sor helyett kemény 1 lett):

let age = 33;

let voteable = (age < 18) ? "Too young": "Old enough";

console.log( voteable );

Azt fogja visszaadni, hogy "Old enough", azaz elég idős. Azért, mert az age nem kisebb mint 18, a feltétel nem igaz és így a második érték kerül a voteable változóba.

**Algoritmus, avagy al-Hvárizmi kicsit félrefordítva**

Az algoritmus egy feladat, probléma megoldásához vezető lépések, utasítások sorozata. Például egy recept is egy algoritmus, leírja lépésenként, hogyan kell elkészíteni egy ételt. Ha követed pontosan az utasításokat, akkor valószínűleg sikerül neked is az asztalra varázsolni a vacsorát. Ez persze függ attól is, mennyire részletesen tartalmazza a recept az adott étel elkészítéséhez tartozó lépéseket. Egy kezdőnek természetesen minden apró mozzanatot el kell magyarázni, míg egy gyakorlott séfnek elegendő egy nagyobb léptékű leírás. Ebből is látszik, hogy egy problémát nem csak egyféle algoritmussal oldhatsz meg. Nemcsak a lépések mélységében különbözhetnek ezek az algoritmusok, hanem akár teljesen más lépésekből is állhatnak, és a végeredmény mégis ugyanaz.

**Az algoritmus jellemzői**

Az egyszerű algoritmusokon túl lehetnek akár igen bonyolultak is, mint pl. egy nagy forgalmú reptér irányítása. Az algoritmussal szemben ezért is állítottak néhány követelményt:

* **Véges:** véges számú lépésből áll.
* **Egyértelmű:** a megoldáshoz vezető lépéssorozat tisztán, egyértelműen van megadva, és szigorúan követhető, nem hagy kétségeket.
* **Elvégezhető:** elvárjuk, hogy az algoritmust végre lehessen hajtani, vagyis a lépések elég egyszerűek legyenek, hogy pontosan végre lehessen hajtani.

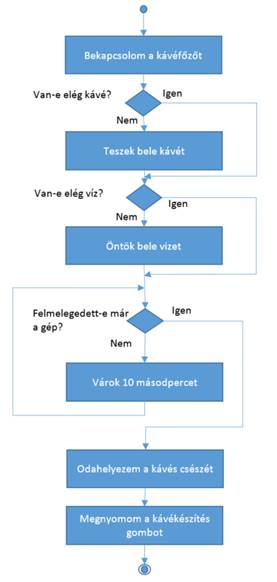
**Algoritmusleíró eszközök**

Az algoritmus leírásának módja több tényezőtől függ, például a megoldandó problémától és a célközönségtől. Egy egyszerű algoritmust akár **szövegesen** is leírhatsz pár mondatban röviden, pl. a reggeli kávé elkészítése:

* Bekapcsolom a kávéfőző gépet.
* Ellenőrzőm, hogy van-e elég kávé és víz a gépben.
* Amikor felmelegedett, odateszem a csészét és megnyomom az espresso gombot.

Előfordulhat, hogy **képeket** használnak az algoritmus bemutatására vagy önállóan, vagy a szöveges leírás mellé kiegészítésképpen. Gondolj csak a repülőgépeken a Safety On Board leírásokra (ne legyen rá szükséged), például mi a teendő, ha fogy az oxigén az utastérből.

Amíg csak utasításokat kell sorrendben egymás után sorolnom, addig ezek a módszerek teljesen megfelelnek. Viszont amikor már a szekvencián kívül más vezérlő szerkezetet is tartalmaz az algoritmus, akkor szerencsésebb lehet valami olyan leíró eszköz, ami szemléletesebb. A folyamatábra például a folyó szövegnél sokkal kifejezőbb ezekben az esetekben.



**Vezérlési szerkezetek**

A szekvencián kívül két vezérlési szerkezetet használtunk a folyamatábrán.

* Az egyik az elágazás (szelekció), amikor feltételtől függően más-más irányba halad tovább a vezérlés.
* A másik szerkezet az ismétlés (iteráció), amikor bizonyos esetben visszairányítjuk a vezérlést egy korábbi pontra, mint pl. amikor várakoztunk, amíg fel nem melegedett a gép.
* Az elágazás és ciklus különböző fajtáiról majd a későbbiekben lesz szó.

**Strukturált algoritmus**

Strukturált az algoritmus, ha csak az alap 3 vezérlőszerkezetet (szekvencia, szelekció, iteráció) használod. Ezeket egymásba is ágyazhatod, de minden ilyen egységnek csak egy kimenete lehet. Vagyis nem húzhatod a nyilakat bárhova.

**Pszeudo kód, a kis hamis**

Nézzünk egy másik algoritmusleíró módszert, a pszeudo kódot, ami nagyon hasonlít már a programkódra, de nyelvfüggetlen.

KÁVÉFŐZŐ BEKAPCSOLÁSA

IF NINCS ELÉG KÁVÉ THEN

KÁVÉ HOZZÁADÁSA

ENDIF

IF NINCS ELÉG VÍZ THEN

VÍZ HOZZÁADÁSA

ENDIF

WHILE NEM MELEGEDETT FEL

10 MP VÁRAKOZÁS

ENDWHILE

CSÉSZE ODAHELYEZÉSE

GOMB MEGNYOMÁSA

Ebben a pszeudo kódban az angol kifejezéseket használtam, de természetesen megengedett a magyar nyelvű változat is.

Nagyon fontos az indentálás (beljebb kezdés), hogy lásd az algoritmus szerkezetét, ezáltal látod az alapstruktúrák egymásba ágyazását.

A pszeudo kódban könnyebb betartani, hogy strukturált algoritmust írj, a folyamatábrán könnyű a nyilakat úgy húzni, hogy elveszítsd a strukturáltságot. Napjainkban is van azért helye, például az UML-ben (Unified Modeling Language) is találunk a folyamatábrához hasonlót, csak ott aktivitás diagramnak nevezik. Az UML tulajdonképpen egy vizuális modellező nyelv, ami nagyon hasznosnak bizonyul a szoftverek készítésének folyamatában, leginkább a kezdeti analizáló és tervező fázisban. Az objektum orientált programozás tanulásakor használunk majd osztálydiagramot is, ami szintén az UML része.

Természetesen az itt bemutatottakon kívül még más algoritmusleíró eszközök is léteznek, pl. a struktogram, de ezeket most hagyjuk pihenni.

**Használandó vezérlési szerkezetek a programkódban**

Mivel minden algoritmus felépíthető három vezérlési szerkezet használatával, a programkódban is csak ezeket kell most használnod:

* szekvencia,
* szelekció,
* iteráció.

**Elemi algoritmusok**

Van néhány olyan folyamat a programozás során, amire az idők során kialakultak a hatékony technikák. Most ezeket mutatom meg.

Ismétlés: Az algoritmus azon lépések sorozata, amelyek egy probléma megoldásához vezetnek.

**Az algoritmus**

Tehát mindig úgy kezdődik, hogy van egy problémád. Ezt a problémát általában sokféleképpen meg lehet oldani, így ahány megoldás létezik, annyi algoritmus van hozzá. Jöjjön egy példa!

**Algoritmus bankkártyás fizetésre:** milyen lépésekből áll amikor kártyával fizetsz a boltban?

1. Előveszed a bankkártyát.
2. Ellenőrzöd az összeget a kijelzőn.
3. Hozzáérinted a kártyát a terminálhoz.
4. Megvárod a hangjelzést.
5. Elteszed a kártyát.

Ez az öt lépés gyakorlatilag egy algoritmus. A minimálisan szükséges lépéseket tartalmazza a megoldáshoz. Most olyan mélységben nem megyünk bele a dologba, hogy közben lélegezni is kell, mert arra nyilván van egy létfenntartást szolgáló másik algoritmus. :) Ki lehetne terjeszteni a teljes vásárlás folyamatára is, de abban az esetben olyan lépések is lennének benne, mint mondjuk betesszük a terméket a kosárba, vagy távozunk a boltól.

**Nevezetes algoritmusok**

Azért hívják őket nevezetesnek, mert gyakran kell őket használni. Olyan programozási folyamatokat írnak le, amelyek nagyon gyakoriak a hétköznapi munka során. Most csak röviden áttekintjük őket, de részletesen is foglalkozunk majd velük, illetve begyakoroljuk őket.

**Pszeudokód**

Mielőtt azonban tanulmányoznánk az algoritmusokat, ismerkedjünk meg a pszeudokód fogalmával! Itt az egyes lépéseket egyszerű, beszélt nyelven írjuk le. Azért jó, mert csak az algoritmust adjuk meg, és utána gyakorlatilag bármilyen programozási nyelven el tudjuk készíteni a végleges kódot. Azaz nyelvfüggetlen. Például így néz ki egy ciklus, amellyel sokat fogunk még dolgozni:

CIKLUS AMÍG van még szám, ADDIG

szám = következő elem

KI: szám

CIKLUS VÉGE

Ha elemzed a fenti kódot, azt látod, hogy addig fog a ciklus futni, amíg nem ér végig a számokon, amik mondjuk egy tömbben is lehetnek. Minden ciklusmagban beállítja a számot és kiírja az értékét, azaz lényegében kiírja a tömb vagy lista elemeit.

**Összegzés tétele**

A feladat egyszerű, egy sorozat elemeit kell összesíteni. A pszeudokód:

összeg = 0

CIKLUS AMÍG van még szám, ADDIG

szám = következő elem

összeg = összeg + szám

CIKLUS VÉGE

**Számlálás tétele**

Itt össze kell számolni, hogy egy bizonyos feltétel hány elemre igaz.

db = 0

CIKLUS AMÍG van még szám, ADDIG

szám = következő elem

HA igaz a feltétel szám-ra, AKKOR

db = db+1

FELTÉTEL VÉGE

CIKLUS VÉGE

**Szélsőérték keresése (maximum vagy minimum)**

A dolog egyszerű. Van mondjuk egy számsorozatod, és meg kell mondanod, hogy melyik a legkisebb vagy legnagyobb szám, azaz a szélsőértékeket keresed.

legnagyobb = első elem

CIKLUS AMÍG van még szám, ADDIG

szám = következő elem

HA szám > legnagyobb, AKKOR

legnagyobb = szám

FELTÉTEL VÉGE

CIKLUS VÉGE

**Eldöntés tétele**

Megvizsgálod, szerepel-e olyan elem a sorozatban, melyre igaz a feltétel. Például: prímszám-e. Ahogy találsz egy osztót, ami nem önmaga és nem 1, tudod hogy nem az.

találat = HAMIS

CIKLUS AMÍG van elem ÉS NEM találat

szám = következő elem

HA igaz a feltétel szám-ra, AKKOR

találat = IGAZ

FELTÉTEL VÉGE

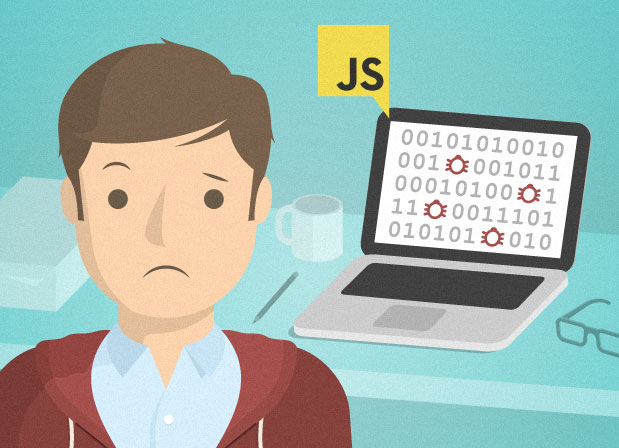
CIKLUS VÉGE

**Egyéb algoritmusok**

A későbbiekben más algoritmusokkal is foglalkozunk majd, de a fenti négy képezi a programozási elmélet egyik alapkövét, ezért ezeket addig nyomjuk amíg a véreddé és a húsoddá fognak válni :)))

**Debugging**

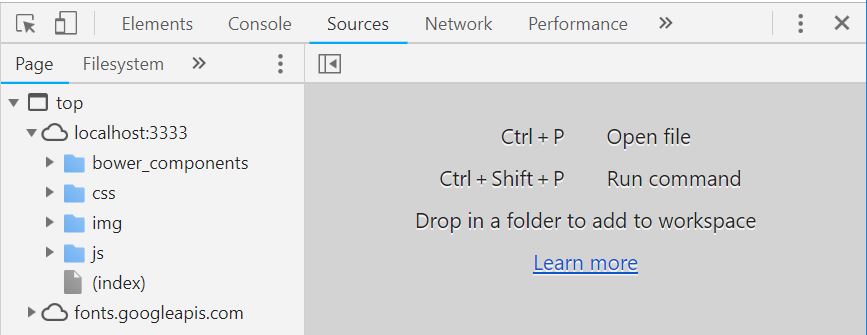
Sok fejfájást okoz, hogy megtaláld a hibát a kódodban. Szerencsére erre vannak fejlett eszközök, ezeket debuggereknek vagy hibakeresőknek szokták nevezni. Én most a Google Chrome beépített debuggerét mutatom meg neked.



**Chrome debugger**

Mivel JavaScript nyelven dolgozunk és böngészőben, adja magát, hogy a böngésző beépített debuggerét használjuk

* ﻿ \tt F12F12﻿ gombbal nyisd meg a fejlesztői eszköztárat.
* ﻿ \tt SourcesSources﻿ fülre navigálj az eszköztáron belül. Itt szépen csoportosítva látod az összes fájlt, képet, JavaScript-et amit az oldal használ:



* Válassz ki egy JavaScript fájlt és ekkor megjelenik a jobb oldali ablakban a fájl tartalma. Ez gyakorlatilag az a script, amit a böngésző futtat. Származhat harmadik féltől is, vagy lehet a magad által készített kód:

![A képen szöveg látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Ha a sorok számára kattintasz a bal oldalon, akkor megjelenik egy kék nyíl, és ezzel létrehozol egy úgynevezett töréspontot (breakpoint), ahol a kód futtatása során meg fog állni a böngésző és addig nem megy tovább, amíg nem avatkozol be:

![A képen szöveg látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM1NwAAkpIAAgAAAAM1NwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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* Ezután egyszerűen frissítsd le az oldalt. Ha a végrehajtás rákerül arra a sorra amit kijelöltél, akkor a böngésző megállítja a kód futtatását és meg tudod vizsgálni a változók tartalmát. Ha nem kerül a végrehajtás arra a sorra, annak az lehet az oka, hogy valamilyen esemény hatására fut le a kódrészlet, vagy esetleg olyan feltételhez van kötve a futtatás ami nem teljesül:

A képen szöveg látható

Automatikusan generált leírás

* Látszik a képen, hogy a ﻿ \tt currentLessonscurrentLessons﻿ egy ﻿ \tt NodeListNodeList﻿ 106 elemmel, és az ﻿ \tt ii﻿ változó pillanatnyi értéke épp 1. Mivel rávittem az egeret a ﻿ \tt this.valuethis.value﻿ változóra, ami egy input mező értéke, így azt is szépen megmutatja a Chrome egy szövegbuborékban.
* Miután befejezted a kód vizsgálatát, a bal alsó sarokban vagy a képernyő közepén megjelenő kék léptető gombbal tudsz továbblépni a következő töréspontra vagy ennek hiányában befejezni a debuggolást:

![A képen szöveg látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABQESAAMAAAABAAEAAAE7AAIAAAAFAAAIVodpAAQAAAABAAAIXJydAAEAAAAKAAAQ1OocAAcAAAgMAAAASgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMxMAAAkpIAAgAAAAMxMAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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tp4N8XahrVxqmseIPEOpRJay6rqTQ/aEt41UpBGsMccUce9nchEG5nJYtxjSMna39fDf8zKW/N/XxW/I47wHA3w3/bM8XaDY710vxZokHil7cL+7t73zzazOn/XQCNn90Fe45+ZvpXiPwaH/CR/tU/FjVLz97d6L/Z2h2Z/hitfJafYB/10lc5969uH3zU/ZiP7Uj5l/bN/5PI/ZR/7HDWP/Uc1OvRP2qfihp/wu8A20l/4w1HwX/a2oRadb3el6T/aur3U0mdkNlbeTP5k5Izj7PN+7SQ7P4087/bO/wCTx/2Uf+xw1j/1HNTr0D9oj4C6f8ebfwrczatrnhzWvC1+NX0jVtHeFbqwnMbwvhZ4pYXR4pZEZZI3BDnocGuqjHmlGJ3YanGdaEZfy/rI89/Ye+Pet/E/4gfErwvqOs+IvElh4RudPm0zVPEfhx9A1iWG6hkZ47i2a1tR8jxPskSBA6OOuN5+mEff+ZryT4J/s66f8EfEni/xNDr3inxDrni5Lf8AtO51q9SfzXto5FR0RERIchjlIgkY/hRKm/Z//Zf0H9n/AF/xtqWi32vXM/xA1yXxFqC392J0gnbGUhG0bY/ruf8A2ulcuOxEaeJ9kkVjKUeeUo/3Tm2Of+CmEP8A2Taf/wBOcVR/tZa/4o+G/jv4b61o3jHWtPs9X8WaZoN9ogtrF9PuoZ3YSMWktnnWT/cmA4qe3/ZPvJPjl/wnH/C1PiKutLbf2dgQaL5H2Lz/ADvs2z+z/ubx9/Pm4/jq78f/ANmaX48eKNMuLj4geN/D9rot9balZWOkx6X9ngu4TlJv9Is5ZGPPKM5jP9yvmaeL/wBljL/p7/7ff8tDtWG/fJP+X9LDP2y/G/jTwZ4N0GbwsviWLT7nW4YPEN/4f0iLVdW0rT3D/v7a2kSQSfvfJR8QTOkcjuIztzVP4Z+JE/aA/Z4vm8MfFjxNqTaffz2smtxaVY2usW8kORJaXdrPZ+WkgfPH2WF9hj/66Sdt4q+Gmp694CsLOLx14w0zVtNLD+27T7D9ru8HDebFJbNaNux/zwG3+DZTvgp8GdN+EGh6itrealq2peIL+XU9W1PUZEe61K6YJEZXEaJGv7uGNQkSJGAgwvWu6b9tVq0n/L/8iciqRp0Yy5ftW/r+vkeR/wDBMTwDq2i/so/DfWLjx54p1XTpvDdts0W5g05LGyyg4R47VLj5Onzzv0719PK2RXi/wK/Zhj+DWj3mjaJ428bR+FY0urew0KWSye20lZZXb9zP9m+15TcdnmTvgY64rJuf2KjdeC7jSf8Ahbnxwj/4piDwsLxPFZF2PIn88aiJPL/4/wCQ/u5JsYeP5SuK7svalQjb+t/8jHHt+3d/62/zPoIHNMuP+PeT/dNJCm2BV+99eaW4/wCPeT/dNdsdzjqfCz+bqiiiv6zP5NP/2Q==)

**Hiba esetén mit tegyünk?**

1. Ne essünk kétségbe. Csak az nem hibázik, aki nem dolgozik. Sokkal jobb, ha mi vesszük észre a hibát, mint a megrendelő.
2. Nyissuk meg a fejlesztői eszköztárat és nézzük meg a konzolt. Ha ott piros hibaüzenetet látunk, akkor általában egy hivatkozás is van, hogy melyik fájl hányadik sorában keletkezett a hiba. Itt már elhelyezhetünk ízlés szerint töréspontokat a megfelelő sorokba, amennyiben szükséges.
3. Erre a hivatkozásra kattintva egyből a ﻿ \tt SourcesSources﻿ panel adott sorára ugrik az eszköztár. Itt megnézhetjük a kódot és ellenőrizhetjük, hogy mi váltotta ki a hibát.
4. Ne felejtsük bent a töréspontokat miután a hibát kijavítottuk és ellenőriztük a helyes futást.
5. **key - kulcs**
6. Az objektumok esetén nem automatikusan indexelődnek az elemek, mint a tömb esetén, hanem mi határozzuk meg a kulcs-érték párokat.A kulcsoknak minden esetben ﻿\tt StringString﻿ típusúaknak kell lenniük.
7. **value - érték**
8. A kulcsokkal jelölt értékeket tulajdonságoknak is nevezik. Az alábbi példában egy egyszerű objektum létrehozását láthatod. Figyeld meg, hogy az objektumot kapcsos zárójelek határolják, a kulcs-érték párokat vesszők, a kulcsot pedig kettőspont választja el az értéktől:
9. Play
10. 00:00
11. -00:48
12. Mute
13. Settings
14. Enter fullscreen
15. Play
16. ﻿\tt \bold{Object.keys()}**Object.keys**()﻿ - az objektum kulcsai
17. Az objektumok esetén fontos, hogy tudd mit tárolsz bennük. Mivel az objektum elemeit a kulcsok segítségével éred el, ezért nem árt tudni, hogy milyen kulcsok vannak egy objektumban. Ezeket a kulcsokat pedig az ﻿\tt Object.keysObject.keys﻿ metódus adja vissza.
18. Az ﻿\tt Object.keysObject.keys﻿ metódus tömb formában adja vissza a kapott objektum kulcsait.
19. Az objektum tulajdonságait úgy tudod elérni, hogy az objektum neve után ponttal elválasztva megadod a kiválasztott tulajdonság kulcsát, vagy szögletes zárójelek között [ ] String -ként adod meg:
20. Play
21. 00:00
22. -00:16
23. Mute
24. Settings
25. Enter fullscreen
26. Play
27. **Az objektum hossza**
28. Az objektumoknak nincs ﻿\tt lengthlength﻿ tulajdonsága, mint a tömböknek, ezért más módszerhez kell folyamodnod, ha szeretnéd megtudni az elemeiknek a számát. Erre a legegyszerűbb módszer, ha nem az elemeiket, hanem a kulcsaikat számolod meg.
29. **Figyelem: a példában láncolt metódus hívást alkalmazunk.**
30. Ennek lényege, hogy egy függvény által visszaadott típusra azonnal meghívod annak szabványos metódusát vagy lekéred egy adott tulajdonságát, jelen esetben a tömb elemeinek számát, azaz a tömb hosszát.Az ﻿\tt Object.keysObject.keys﻿ tömböt ad vissza, majd annak le is kérheted azonnal a length tulajdonságát:

**Constant**

Arról már beszéltünk, hogy nem lehet új értéket adni a ﻿\tt constconst﻿ kulcsszóval létrehozott változóknak. De tömbök és objektumok esetén van egy kiskapu. Hogy mi az, mindjárt megtudod, figyelj jól ...

﻿\tt \bold{const}**const**﻿

Mi is történik, amikor egy változót a ﻿\tt constconst﻿ kulcsszóval hozol létre?

**READ ONLY:** csak olvasható referenciát hoz létre az értékre. Tehát rámutat, referenciát jelent egy memória területre ahol az értéke van. De nem lehet rajta keresztül a memória terület tartalmát módosítani.

**Mutable - Immutable**

A szavak jelentése nagyon érdekes.

**Mutable:** az adott változó értéke meg tud változni, tud mutálódni. Ez zombi apokalipszis estén nem túl hasznos tulajdonság, mivel ott az a jó, ha valaki vagy valami nem mutálódik :(

**Immutable:** értelemszerűen az előbbi ellentéte. Tehát az ilyen változót vagy értéket lehet olvasni, de írni - változtatni nem. Az előbb említett világvége esetén bennük jobban meg lehet bízni :)

﻿\tt \bold{const}**const**﻿ és ﻿\tt \bold{Object}**Object**﻿

Először készítek egy objektumot a ﻿\tt letlet﻿ kulcsszó használatával és módosítom egy másikra, mert **mutable,** azaz meg lehet változtatni az értékét:

﻿\tt let\,user\,=letuser=﻿ ﻿\tt {\{\,name: "John Doe", age: 33 \,\}};{name:"JohnDoe",age:33};﻿﻿\tt user\,=user=﻿ ﻿\tt {\{\,name: "Black Jack", age: 100 \,\}};{name:"BlackJack",age:100};﻿

Nem történt semmi probléma, a kód lazán lefutott. A ﻿\tt useruser﻿ azonosító egy értékre mutat a memóriában. Amikor felülírom, nincs semmi baj, az azonosító onnan kezdve egy másik értékre fog mutatni.

Most ugyanezt megpróbálom ﻿\tt constconst﻿ kulcsszóval is, ami **immutable** adatkötést hoz létre:

﻿\tt const\,user =constuser=﻿ ﻿\tt {\{\,name: "John Doe", age: 33 \,\}};{name:"JohnDoe",age:33};﻿﻿\tt user\,=user=﻿ ﻿\tt {\{\,name: "Black Jack", age: 100 \,\}};{name:"BlackJack",age:100};﻿ ﻿\tt //\,Uncaught TypeError://UncaughtTypeError:﻿ ﻿\tt Assignment to constant variable.Assignmenttoconstantvariable.﻿

Az lett amire számítottam, nem megy a dolog. Nem lehet hozzárendelni új értéket a ﻿\tt constconst﻿ változóhoz.

**Constant property change:**

﻿\tt const\,user =constuser=﻿ ﻿\tt {\{name: "Jack"\}}; user.name = {name:"Jack"};user.name=﻿ ﻿\tt "Bob";"Bob";﻿﻿\tt const\,jobs =constjobs=﻿ ﻿\tt ["programmer", "chef", ["programmer","chef",﻿ ﻿\tt "builder", "movie star"];"builder","moviestar"];﻿﻿\tt jobs[2] = "tester";jobs[2]="tester";﻿

A ﻿\tt \bold{const}**const**﻿ kulcsszóval definiált objektumok és tömbök tulajdonságait / elemeit meg tudom változtatni!*Miért? Azért, mert az objektum és a tömb különálló változókat tárol a memóriából és csak összefogja őket. Amikor az objektum egy tulajdonságát megváltoztatom, azzal az objektum kötése az azonosítóhoz nem fog megváltozni, csupán az egyik tulajdonságát módosítottam.*

**Memory snapshot:** a Google Chrome lehetővé teszi, hogy pillanatfelvételt készíts a memóriáról.

* Létrehoztam egy const objektumot Acar néven.
* Készítettem egy memória pillanatfelvételt (snapshot) és kikerestem benne a változómat.
* Minden változó mellett ott van a memóriacíme, azaz hogy hol található a memóriában.
* Jól nézd meg a képet: az Acar objektum és a man és model String-ek, amelyek a tulajdonságai, más és más memória címeken vannak. Ezért ha azokat módosítjuk, azzal az Acar memóriacíme nem módosul.

![A képen szöveg látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyOQAAkpIAAgAAAAMyOQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAf/2Q==)

**For ... in ciklus**

Több dologban különbözik a for ciklustól.

* Nincs benne iterátor változó.
* A megadott Array vagy objektum kulcsait járja be.

**Használata**

* Paraméterei:
* kulcs változó: ebben tárolja mindig az aktuális kulcsot.
* kollekció: az a tömb vagy objektum, amelyet bejár a ciklus.

Egy egyszerű ﻿\tt forfor﻿ ... ﻿\tt inin﻿ ciklus:

A k változó a key rövidítése, ez tárolja az aktuális kulcsot.Külön ki is írtam neked a kulcsot és az értéket.

Play

00:00

-00:32

Mute

Settings

Enter fullscreen

Play

**Tömbre és objektumra is**

Nagy előnye az alap for ciklussal szemben, hogy tömbre és objektumra is alkalmazható, nem kell hozzá külön változó, hogy végig tudd járni az objektumok kulcsait.

A példában ugyanazt a ciklust használom fel tömbhöz és objektumhoz is:

Play

00:00

-01:17

Mute

Settings

Enter fullscreen

Play

**Előnyei**

* Tömbre és objektumra is működik.
* Egyszerűbb szintaxis.

**Hátránya**

* Nehezebb a futását limitálni, mert nincs külön iterátora.

A ﻿\tt forfor﻿ ... ﻿\tt inin﻿ ciklus esetén is használható a continue és break utasítás.

Play

00:48

-01:00

Mute

Settings

Enter fullscreen

Play

**Dokumentáció**

[For...in ciklus](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/for...in)

**Iteráció**

**Az iteráció egy függvény ismételt végrehajtása az előző függvényértéken.** Magyarul, az iteráció azt jelenti, hogy egy sorozat elemeit végigjárom és mindegyiken végrehajtok egy műveletet, és ez a végigjárás valamilyen sorban történik, azaz nem összevissza ugrálok a sorban található elemeken.

**For...of**

Ezt a fajta ciklust az ES2015 szabvány hozta be a JS-be. A for...of ciklus hasonló a for...in -hez, de vannak különbségek.

**1. Nem a kulcsokon, hanem az értékeken megy végig**

**2. Array-like, tömb szerű változókon lehet alkalmazni**

Példa a használatára:

﻿\texttt {let iterable =}let iterable =﻿ ﻿\texttt{[10, 20, 30];}[10, 20, 30];﻿﻿\texttt {for (let value of iterable)} for (let value of iterable)﻿ ﻿\texttt {\{ value += 1; console.log(value); \} }{ value += 1; console.log(value); } ﻿

Azt írja ki, hogy 11, 21, 31. A tömb az iterálható, azt be tudja járni a for...of ciklus és egyesével kiolvassa az elemeit. Ezután növeltem eggyel az értékeket és kiírtam a console-ra.

**String bejárása for...of ciklussal:**

﻿\texttt {let iterable = 'boo';}let iterable = ’boo’;﻿﻿\texttt {for (let value of iterable)}for (let value of iterable)﻿ ﻿\texttt {\{ console.log(value); }\} { console.log(value); }﻿

Azonosan tudod elvégezni, mint a tömb esetén. Emlékszel, a String nagyon hasonlóan viselkedik, mint az Array. A kimenet "b", "o", "o" lesz.

**Objektum bejárása for...of ciklussal (ha nem kell a kulcs):**

﻿\texttt {let user =}let user =﻿ ﻿\texttt {\{ name: "Kiss\,Ramóna", age: 22\;\}};{ name: "KissRamoˊna", age: 22};﻿﻿\texttt {for}for﻿ ﻿\texttt {( let value of Object.values(user) )}( let value of Object.values(user) )﻿ ﻿\texttt {\{ console.log(value); \} }{ console.log(value); } ﻿

Nem konkrétan az objektumot járja be a példában a ciklus, hanem kiolvasom az objektumból az értékeket, amit az ﻿\tt Object.values\,(\,)Object.values()﻿ metódus egy tömbben ad vissza. Ezt a tömböt már be tudom járni, mert az Array az iterálható. Így viszont elveszítem a kulcsokat és csak az értékekkel tudok dolgozni a ciklusban. Ennek akkor van veszélye, ha nem abban a sorrendben vannak az adatok az objektumban, ahogy én arra számítottam.

**Objektum bejárása for...of ciklussal (ha kell a kulcs):**

﻿\texttt {let user =}let user =﻿ ﻿\texttt {\{ name: "Kiss Ramóna", age: 22 \}};{ name: "Kiss Ramoˊna", age: 22 };﻿ ﻿\texttt {for}for﻿ ﻿\texttt {( let entry of Object.entries(user) )}( let entry of Object.entries(user) )﻿ { ﻿\tt console.log( `\$\{entry[0]\}: \$\{entry[1]\}` );console.log(‘${entry[0]}:${entry[1]}‘);﻿﻿\tt \}}﻿

És itt az egész példa kimenettel:

![A képen szöveg látható

Automatikusan generált leírás](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdlcDUAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyNQAAkpIAAgAAAAMyNQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1lFV7G/tdTsYr3TriO5tpl3RyxNuVh7GuV1H4ueBdKvWtbzxFb+crbWEMckoU+hKKQPzoA7KiqWk6xp2u6el9o95De2sn3ZYXDDPp7H2NXaACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPHNX8Nad4n/AGkXt9YjM9rb6THcG3J+SVg2AGHcc5x7Va+KOn2el+MvAmoadaQ21z/aiwGSJAhMfHynHbk/ma6CDw7qqfHK68QNa40uTSVtluPMXmQMDt253dO+MVH8SfDera/q/hObSbT7RHp+qLcXTeYi+XGMc/MRnp0GTQBp+Otf8L6DZWkviq1jvnab/QrX7MJ5ZJMY+RT35xnjr15ryb4r+KLHWvBpeHwNr+kXltNG9vqN5pYgSL5hxvB4z2Hriu/+I/hTX7/xJoPijwpFbXl9ozPmyuX2LKrehOAD16kdvSub8b6L8UfHvhW5trrS7DSrdSjLpsVwks1ywYdZC2xVHXgg8Y5oAvfFLTY9e1jwDYXkjiK7uykxQ4LKUXcM+4yD9aZZ+GNLuv2ib9HtY1trDTIJo7VUAjL42qxXoSATiuj8U+HNV1HxF4IurK18yHS7oyXjeYo8pdgGcE5PPpmptP0DU4PjNq+uy223TbjTYoIp/MU7nUjI253D6kYoA870vVrjQPgf40uNNZoZI9XuYYinHlBnVcj0wDWl4V8UaVovgu10eL4a+KrmB4F+0P8A2KHW5Yj5nJJ+bP8AKt3wt4Cu5fAviXQPElubVdU1G5ljKurkIxBRxtJ7jODzxVPSZfit4TsItF/4R/TvEVvbKIre+jvVhOwcDeHIJIHoPxPWgCx8FLfULLS9ctLnTNR0zT11BpNPt9Qt2idIn5wAew9s810/jDwBoPjkWf8Ab8Ekhs3LRtFIUJBxlT7HA9/er/hqTX5dJ8zxXDYwXzSEiKxZmRE7Alurdc44rmPihp3jy/j0v/hALsQeXMTdASrGT02kluqjnI7+hoA7yKNIYUiiXaiKFVR2A6CnUyASC3jE5VpQo3lRwWxzj8afQAV4L8RYfEE/xZ11PCj7bz/hH03qoPmPFvG8IezY/wA5r3quGg8O6qnxyuvEDWuNLk0lbZbjzF5kDA7dud3TvjFAFv4YXmgXfgGwHhaPybSJNkkLf6yOX+MP6tnnPfNdVLBFOAJ4kkA6B1Bx+dec3fhPW/CPxEHiDwRYi80zVG26tpqypHtb/nsm8gZ74+vrx0/izVfE+mR2p8KeHE1tpC3nq94kHldMfePOeenpQByHwtRY/iH8QFRQqjUEAAGAPv10/wAS/Dd/4s8AahpGkzCK6mCsgZtok2sDsJ7ZxivPfDUPxN8OeIdf1VPAcVw2s3AnaM6rAoixngHdz1r1DXrrxLF4ajuPDmn2k+rfI0lrdSYQDHzqGBHI7HOKAPO9M8e6HodhbaH4+8EyeHQoEPmPZLLZuQMZDAc568A/WvT9SthrXhe6ttMuliW8tGSC4iOVUMuFYEdue1eda3/ws3xpolxoF54T0zR4LxPLmvLi+WYKvcqqEkH0zXdWmk3vhvwHFpegGO6vbGyENqbrISR1XA3YPAJ96APLPDOvL8M9DTQvHPgea2hgJV9WtLZZ4JwSfmdv/rk+w6V694fv9I1LQra68OPbvpsi5h+zqFQDPI24GDnORjrXCy658Vry2eyfwRpcTyqUN1JqKNCM8ZKBixHtXR/DnwhJ4I8GwaTcXC3FxvaaZ4xhA7HJCj0FAHU0UUUAeE6BN41g+IHj2TwRBo9xtvgZ49RMm9j820JtIHr1PpW/8IEh1/U9W8WatfSXXiVm+yXdu8IiFiFP+rVcnI4+97dM5rb8B+G9W0bxp4xv9StfJttSvFltH8xG8xRu5wCSOo64qtH4U1jw/wDGhtd0Kz87RdZg26kFlRfJlHR9pIJ/AHq1AF3xh4t8K6F4htoL7SJNa15osw21jYi4uEjznPP3R7Z/CvPtZ1u01X4qeDb6x8Kax4du/tpilnv7AWwuEIA28H5iOfwNdRr3h3xfoHxPuvF3hLTbXW4r+2WCe0muBDJHjHKsxAx8o/XiqN74b+IniHxh4a1vxBBYxW1lfBzp9nIp+yx45d3Y5dj0wuelAE2paJa63+0rEuoL5sNro6XAhPKu4kYLuHfBOfqBWD4Z8O6dLpHxM1Ka3SSSC4vLaBHUFYF2ljsHYkkZx/dFegp4f1MfG+XxAbb/AIlbaOtsJ/MX/WeZnbtzu6d8YrL0Dwlrdl4a8eWt1ZbJtWvbqWyXzUPmq6YU5BwuT64oA4+/L6t4B+GHhmeVksdWeMXYDYMiIBhM+nP6CvVtb8E+HdR8KT6RLpNnHarCyxCOFVMJxwykDgj1rkrn4capqvwp8N2CyrpniLQ1jmt2dgypKvVWK54PHIz0pt1c/FvXdNk0WXQtL0lpkMU2rC7DrtPBZIwSwOPX9KAMDSdRudQ/ZU1P7Y7SNawy26O38SLINv5Dj8K7X4feB9BsPh7Zg6fDdSajZpLdzXCB3mLKCQSewzgDtRq3gV9N+Cl54S8OxG6n+yGOMMyoZpCwLEkkAZOT1rqPDVlcaf4R0uyu4/LuLeziikTcDtYIARkcHmgDhfgRIIvAN9AzbYLTU7hI9x4RBg/1NRxfEDwgGubfwx4K1TWrQOyzXGk6MskMjd8njcfcjmrvw58HarpfgTW9H12A2M1/d3JTEiudkigBsqT+XWsXwxY/FHwdoSeF9N8P6RcwwMwg1WS7AjAZictGDvJ59PzoAf8ABKaI6/4zisbG50yyF7HJFYXMflvb7g2QU/hPA49hXrtedfDLwr4i8PeIPE914nZbiTUJ4pEvE2BZyAdxCg5UAnHIFei0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/5/Gjdcf3F/wA/jQBNRUO64/uL/n8aN1x/cX/P40ATUVDuuP7i/wCfxo3XH9xf8/jQBNRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRXN+IviF4U8KXAg1/WoLWcjPkhWkcDsSqAkfiKAOkorN0LxHpHiaw+2aDqEN9BnBaJuVPoQeQfYiofEPi3QfClus3iHVILFX+4rkl39cKMsfwFAGxRWD4b8ceG/F2/wD4R3Vobx4xl4wGR1HrsYBse+K3qACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5fxXZ+NL67gh8Japp2l2mw+fcXEBlm3Z42qRtxj1rk49f8AG/gnxlo2meL9StNe0zWZjbx3cVsIJYZOwKqAMcj149Kh8T6rqHiL4vN4Pm8R3PhzS7ezWfdZyiGa6c9hIenXp7Hj05TxBZaJpfxI8I2Ol+MdX8Q3aaohnhvr8XSQDIwQQoAbPbOaAPT/AIh+LdU0ObSNF8NQwyazrU5hgkuM+XCoxucgdcZ//X0riPHM3xQ8FWdnqEvjeK6sp7hIJ3j0qBWgLHghSp3Dr3BrS+MMgufF3hHT7S9g0jUvOkuINVuWxHDtH3OeDuOOv9am/wCEX8SeOb2wj8beItDm0uznEws9FLH7Uy9N7N0+gz/WgDpfEPiW48BfD+O91e4OtamAsEbrEIftUzH5flXhR649Kwbiy+K9rpTa2fEGmS3KR+c+ifYAIgAMlBL98nt1696j+Peny3HgmwvIzOsGnajFPcNbnDpHgqWB7EZHPaobLwZ4d1TSlv7T4oeKJbR1yZP7eTCj0bK8H1BoA7vwX4oh8ZeEbLW7ePyvtCnzIs58twcMue/IrmvEmpfECD4paRa6DZLJ4ckC/aZPLUqeTvLMeVIGMAYz710HgXQNI8N+E7ex8O30l/p5d5Y7iSVJC+45JDKACM1Dq3xD8PaL4wsvDN/cyLqN4F2BYyUUscKGPYk9P1xQB1FFFFABWPa+EtAs9UvNSg0i1F7evvnnaMMzHGOp6DjoMDPNbFeZeMfHs2p62/g7wZfW1vekEX+qzSBY7FOhCkn5pPYdP5AFDwNZ29t8efFa+HY0i0iO3jW4SEYiE/HAA4z97p716NdeFdCvteTWr3S7a41GOIRJPLGGKqDkYB4zz161m+DNM8N+FtIi0fQ7+2nkdi8shuFeW4kPV2wckn9KzvH3xDj8NSw6Lowhu/EV7xBBI4WOAH/lpIx4CjrjvQBzXiSwtbf9obwqPDkEUN6YZJNSFuoXMWMAuB6jI59q9erg/A2jaL4ZS4vtR1+z1PxBqJDX189whLH+4nPCjsP/AKwHeUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBgeJPAvhrxeY28RaTDePGMJJuZHA9NykHHtmoLb4c+ErOGyjtNEggWxuBcwGJmUiUcBmIOX/wCBZrpqKAPHvi3EkvjfQ38W6bd3fg+3iZ5WtIS22Y5HzlfmC4xwDz71yWv23wq1jSZrf4e6NqF9r7ri0+wR3I8p88M287cDucH+tfR1FAGL4ZsL2LwXp1h4jK3V4tokd35h3h224YHP3vQ+tYcnwc8Ay332tvDduJM52rLIsf8A3wG2/hiu2ooAgs7K206zitLC3itraFdscMSBVQegA6VmX/g/QNT8RWuu3+lwzanZgCG4bOVx0yAcHHbIOO1bVFABRRRQAVxF98G/AepahcX17oXm3FxI0sr/AGycbmJyTgPgc+ldvRQBx2jfCfwV4f1i31TSNF+z3lsS0Uv2qZ9pIIPDOQeCeoqXxB8MfCHinVm1PXtI+1XjIqGT7TMmQOgwrgfpXWUUAcHF8E/h9BMksXh/a8bBlP224OCDkf8ALSu8AwMCiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAzqKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

Miért érdekes ez? Mert ha meghívod az ﻿\tt Object.entries\,(\,)Object.entries()﻿ metódust és átadsz neki egy objektumot, akkor egy tömböt ad vissza, amiben al-tömbökben az egyes tulajdonságok ﻿\tt [key, value][key,value]﻿ formában benne vannak. Az egyes bejegyzések entry első eleme tehát a kulcs, a második az érték.

**Dokumentáció**

[For...of cycle](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/for...of)

**Metódus**

A metódus (angolul method) azt jelenti, hogy egy dolgot hogyan csinálunk meg? Azaz a kivitelezés módját.

Az objektumoknak vannak tulajdonságai, ha egy objektum egy embert jelent, akkor például a magassága vagy a haja színe. De vannak metódusai is, azaz amit tudnak csinálni. Ilyen lehet hogy tudnak beszélni, sétálni, futni, stb. Tehát a metódus azt írja le, hogy egy adott objektum egy dolgot hogyan csinál?

**Beépített metódusok**

Találkoztál már metódusokkal, amiket bizonyos objektumokra meg lehet hívni. ﻿\tt Array.isArray(\,),Array.isArray(),﻿ ﻿\tt Object.keys(\,),Object.keys(),﻿ ﻿\tt Object.etries(\,)Object.etries()﻿ ismerősek? Ezek tipikus metódusok, amelyek már alapból meg vannak írva és használhatod őket. A metódus gyakorlatilag egy függvény, ami egy objektumhoz van kötve és nem csak úgy "lóg a levegőben".

**Saját metódusok**

De te is bármikor készíthetsz egy metódust, most megmutatom hogyan.

**Egy objektum metódussal:**

let product = { price: 1000, desc: function() { return "This is an awesome product."; } }console.log( product.desc() );

**Pár érdekes dolog**

* A product objektum egyik tulajdonsága egy függvény. Ezt metódusnak hívjuk.
* A metódus kulcs (neve) ﻿\tt desc.desc.﻿
* Ha meg akarod hívni, akkor így tudod: ﻿\tt product.desc(\,).product.desc().﻿
* Fontosak a zárójelek, csak akkor fog lefutni, ha van utána kettő. Tudod, ﻿\tt invocationinvocation﻿, azaz a metódus meghívása.
* És amit a ﻿\tt descdesc﻿ metódus visszaad, azt ki is írathatod mondjuk egy console.log -al.

**Dokumentáció**

[Az összes beépített metódus](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Methods_Index)

**This**

Ezt a szót az angolok akkor használják, ha rá akarnak mutatni valamire. Ez. Mindig egy adott objektumot jelent. A kérdés, hogy mikor melyiket?

Mikor mi a ﻿\tt thisthis﻿?

A globális objektumot jelenti, ami általában a window.**Hol:** a JS fájl gyökerében, függvényekben.

﻿\tt console.log(\,this\,);\,\,//\,\,windowconsole.log(this);//window﻿

Szóval ha csak úgy simán lekéred a JS dokumentum gyökerében, akkor a legfelső szintű objektum lesz, ami a böngészőben a ﻿\tt window.window.﻿

**A szülő objektumot jelenti.Hol: metódusban.**

let product = { price: 2000, showPrice: function() { return `${this.price} Ft`; } }

**Azt az elemet jelenti, amelyre végbement az esemény.Hol:** az eseménykezelő függvényben.

﻿\texttt {<button onclick=}<button onclick=﻿﻿\texttt {"this.style.display='none'"}"this.style.display=’none’"﻿ ﻿\texttt {Click\,to\,Remove\,Me! </button>}ClicktoRemoveMe! </button>﻿

Itt a this a button lesz.

**Dokumentáció**

[A csodálatos this](https://www.w3schools.com/js/js_this.asp)

**Arrow Function**

Elérkeztünk a függvényekkel kapcsolatos újítások legzseniálisabb részéhez, azaz az ﻿\texttt {Arrow function}Arrow function﻿ -ökhöz.

Nézzük meg mi is ez az új CSODA. Az előző leckékben már tettem rá említést, most a gyakorlatban is megmutatom, hogy is teszik egyszerűbbé az életünket az ﻿\texttt {arrow function}arrow function﻿ -ök.

Az ﻿\texttt {arrow function}arrow function﻿ segítségével egyszerűbben tudsz létrehozni függvényeket, mint függvény kifejezéssel.

**Emlékszel még erre:**

let people = [ { firstName: "John", lastName: "Doe" }, { firstName: "Jane", lastName: "Doe" }]; let template = `<div> ${people .map(function(person) { return `<p> ${person.firstName} ${person.lastName} </p>`; }) .join("")} </div>`;

**Egyszerűsítsük:**

let people = [ { firstName: "John", lastName: "Doe" }, { firstName: "Jane", lastName: "Doe" }]; let template = `<div> ${people .map(person => `<p> ${person.firstName} ${person.lastName}</p>`) .join("")} </div>`; console.log(template); /\* <div> <p> John Doe </p><p> Jane Doe </p> </div> \*/

Ugyanazt kapjuk a kimeneten. De mi is történt? A ﻿\tt callbackcallback﻿ függvényünket átírtuk egy újfajta szintaxisra.

* elhagytuk a ﻿\tt functionfunction﻿ kulcsszót
* az ﻿\texttt {arrow function}arrow function﻿ mindig anonim lesz
* A paraméter körüli zárójeleket töröltük (EZT CSAK AKKOR TEHETJÜK MEG HA 1 PARAMÉTER VAN!)
* Elhagytuk a kapcsos zárójeleket (NEM MINDIG!)
* Egy => jelet írunk a paramétere(k) után
* Elhagytuk a ﻿\tt returnreturn﻿ kulcsszót

**Nézzünk egy másik egyszerűbb példát is:**

let languages = ["java", "php", "python"]; // Ezt írjuk át: let scriptsOldStyle = languages.map(function(language) { return `${language} script`; }); // Erre: let scriptsNewStyle = languages.map(language => `${language} script`);

**A fenti példán is jól láthatók a szintaxisbeli különbségek. Nézzünk meg egy példát több paraméterrel:**

let languages = ["java", "php", "python"]; let languageRank = languages.map((language, i) => `${i + 1}. ${language} script`); console.log(languageRank); // ["1. java script", "2. php script", "3. python script"]

**Láthatjuk, hogy több paraméter esetén a zárójeleket ki KELL tennünk. Nézzünk egy példát egy összetettebb függvényre:**

let alertMessage = message => { alert(`Alert ${message}`); console.log(`Alert ${message}`);}; alertMessage("Message");

Tehát ahogy említettem, ha nem csak egy egyszerű utasításunk van a függvényben, a kapcsos zárójeleket kitesszük, illetve ha nincs kapcsos zárójel az azt jelenti, hogy visszatérési értékünk lesz. Nézzünk még egy érdekes példát arra az esetre, hogy ha a függvénynek egyáltalán nem lenne paramétere:

﻿\texttt {let infoMessage = () =>}let infoMessage = () =>﻿ ﻿\texttt {console.log("Arrow function");}console.log("Arrow function");﻿ ﻿\tt \,infoMessage();infoMessage();﻿

Nézzünk még egy szép összetett real life példát funkcionális programozási szemléletmóddal így a végére:

**Van egy webshopunk, és a html kódból meg kell mondanunk, hogy az általunk árult szerverek összesített ára mennyi:**

<!DOCTYPE html> <html lang="hu"> <head> <meta charset="UTF-8"> <meta name="viewport" content="width=device-width, initial-scale=1.0"> <meta http-equiv="X-UA-Compatible" content="ie=edge"> <title>Arrow Function Example</title> </head> <body> <ul id="price-list"> <li>TV</li> <li data-company="Dell">Server</li> <li data-price="11.012,12">TV</li> <li data-price="23.243,55">Server</li> <li data-price="4.543,29">TV</li> <li data-price="230.323,32">Server</li> <li data-price="48.344,30">Server</li> </ul> </body> <script> const serverPrice = Array.from( document.querySelectorAll('#price-list li[data-price]')) .filter(item => item.textContent.includes('Server')) .map(item => parseFloat(item.dataset.price.replace('.', '') .replace(',', '.'))) .reduce((total, item) => total + item); console.log(serverPrice); </script></html>

Mindössze annyit teszünk, hogy használjuk a tömb metódusainkat, most már ﻿\texttt {Arrow function}Arrow function﻿ -ökkel kombinálva. (Az ﻿\tt Array.from(\,)Array.from()﻿ szintén hamarosan kifejtésre kerül, csakúgy, mint az ﻿\tt includes(\,)includes()﻿, ami leginkább az ﻿\tt indexOf(\,)indexOf()﻿ -ra hasonlít)

* Kigyűjtjük egy konstansba a ﻿\tt price\text{-}listprice-list﻿ id-jú elemen belül az összes li-t, aminek a ﻿\tt data\text{-}pricedata-price﻿ attribútuma meg van adva. (Az ﻿\tt Array.from(\,)Array.from()﻿ -ról a későbbiekben részletesen).
* Leszűrjük az elemeket, hogy a *"Server"* szót tartalmazó elemek maradjanak, tehát csak a szerverek árai érdekelnek.
* Tömböt készítünk ezen elemek áráról, mely érték már ﻿\tt floatfloat﻿ -á lesz alakítva (kiszedjük a pontot), és figyelünk a "," karakterekre is, melyeket "."-ra cserélünk.
* A kapott összegeket összeadjuk.

**Arrow function és a return utasítás**

// return: undefined // Üres blokk, implicit return (firstName => {})()   
// return: 'Hello John' // Nincs blokk, implicit return (firstName => 'Hello ' + firstName)('John')   
// return: undefined // explicit return kell a blokkon belül, de Hello hiányzik (firstName => {'Hello ' + firstName})('John')   
// return: 'Hello John' // explicit return a blokkon belül (firstName => {return 'Hello ' + firstName})('John')   
// return: undefined // a block egy label-t tartalmaz. Nincs explicit return. // https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Statements/label (firstName => {name: firstName})('John')   
// return: {name: 'John'} // implicit return a ( ) belül, ami egy objektum (firstName => ({name: firstName}))('John')   
// return: name: 'John' // explicit return a blokkon belül, objektum (firstName => {return {name: firstName}})('John')

**Arrow function és a local binding**

*A javascript fejlesztők élete nem csak játék és mese.* Az ﻿\texttt {arrow function}arrow function﻿ -nél nincs ﻿\texttt {local binding.}local binding.﻿ Tehát nincs ﻿\tt arguments,\,this\,arguments,this﻿ ﻿\tt super,\,new.target.super,new.target.﻿Ha a ﻿\texttt {arrow function}arrow function﻿ -ön belül megpróbáljuk elérni, akkor a ﻿\texttt {parent scope}parent scope﻿ lesz használva.

**Nézzünk egy példát this esetére, és hogy mikor jó nekünk az ﻿\tt \bold{arrow\,function}arrowfunction﻿ e tulajdonsága:**

/\* A régi módszer, a this-t beletettük a that-be, hogy a setInterval-on belüli callback-ben is elérjük \*/ function People() { var that = this; that.age = 0; setInterval(function setAge() { that.age = 30; }, 1000); }  
// És most: function PeopleWithAF() { this.age = 0; setInterval(() => { this.age = 30; }, 1000); }

Ím látjuk, hogy ez szép, jó, és hasznos, szóval jöjjön is egy példa, hogy mikor NEM jó:

**Ilyen esetben - objektum metódusban - érdemes kerülni a használatát:**

let sampleObject = { a: 10, b: () => console.log(this.a, this), c: function() { console.log(this.a, this); } };   
sampleObject.b(); // undefined, Window {...} (vagy global object)   
sampleObject.c(); // 10, Object {...}