Matopeli

Dokumentti

Tieto- ja viestintätekniikan perustutkinto

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Sisällysluettelo

Suunnitelma 2

-Toteutus 2

-HTML 2

-CSS 3

-Javascript 3

-Mockups 4

-Työnjako 5

Valmis peli 6

-Kuvat 6

-Pelin testaus 7

-Ongelmat peliä luodessa 8

-Pelissä havaitut kehityksen kohteet 9

Suunnitelma

Toteutus

Suunnitelmana on luoda perinteinen matopeli, jossa pelialusta on musta mutta muuten peli olisi melko värikäs. Tarkoitus oli luoda pelistä samantyyppinen kuin alkuperäinen matopeli Nokian 3310 puhelimessa ja sitä aiemmissa malleissa. Eli pelissä on reunat joihin osuessa häviää pelin. 3410 mallista eteenpäin peliin tuli uusi ulottuvuus, että seinien läpi pystyy mennä ja ilmestyä pelialustan toiselta reunalta, jolloin ainoa tapa hävitä peli oli törmätä itseensä, mutta sitä mahdollisuutta ei ollut tarkoitus tähän meidän peliin luoda.

![Kuva, joka sisältää kohteen teksti, näyttö, kello, elektroniikka

Kuvaus luotu automaattisesti](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4TZmRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA1OjE3IDEzOjU2OjI4AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM2MQAAkpIAAgAAAAM2MQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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(inspiraatiokuva)

HTML

HTML-sivulla luodaan web-sivu jolla peli on. HTML-tiedostossa on linkit haluttuihin CSS ja Javascript tiedostoihimme, jotta saamme peliin luomamme muotoilut ja funktiot pelin toimivuutta varten. Luomme pelialustan ja määrittelemme sen koon jolla matomme tulee liikkumaan. Sen lisäksi luomme sivulle tekstikentät, joihin tulee pelin sen hetkiset pisteet, sekä huippupisteet jotka kasvavat aina kun mato syö ruoan. HTML:ään luomme myös paikat ”game over!” sekä ”play again!” teksteille, jotka ilmestyvät näkyviin, kun mato törmää joko itseensä tai seinään (eli häviää pelin).

CSS

CSS-tiedostolla määrittelimme suurimmaksi osaksi HTML-sivua pelialustan eli canvasin ulkopuolelta mm. ohjeistustekstit sekä ruudulle ilmestyvien tekstien fontit, sijainnit, tekstin värityksen ja fonttikoot. Tyylitiedostolla lisättiin myös taustakuva. Pelialusta ja sen sisällön muotoilut ja värit tehtiin lähinnä Javascriptilla.

Javascript

Javascriptilla luodaan pelialustan näkyvyys ja värit, madon liikkeet, kasvu ja ulkonäkö, ruuan näkyvyys ja sijainti sekä päivittyvät pistetaulukot. Pelialustan väri määriteltiin Javascriptissa muuttujaan. Mato luotiin pelialustalle määrittelemällä sille sijainti x ja y koordinaateilla sekä sen koko pikseleillä. Madon ja ruuan muoto asetettiin tekemällä peliin 5 neliötä peräkkäin (em. koordinaatteihin), joista mato muodostuu alkuun sekä täyttämällä nämä neliöt valitsemallamme värillä, jolloin pelilaudalle ilmestyy matoa muistuttava kuvio.

Madon liikkeet saatiin aikaiseksi Javascriptin funktioilla, joilla madon eteen lisättiin aina uusi neliö ja samalla perästä poistettiin yksi neliö, jonka avulla saatiin näyttämään, että mato liikkuisi sekä funktio joka arpoo pelialustalle eri värisen neliön (madon ruuan) ilmestymään ihan mihin vain pelialustalla. Kun mato syö ruuan niin pituuteen lisätään eteen yksi neliö, mutta perästä ei poistu neliötä, jolloin mato kasvaa.

Madon suunnan muutos on määritelty Javascriptiin näppäimistön nuolinäppäimille. Peliä ei voi pelata muilla näppäimillä tai hiirellä (play again-nappia kuitenkin painetaan hiirellä). Lisäksi madolle on tehty funktioilla tapahtumat jos se törmää seiniin tai omaan pituuteensa. Tällöin peli pysähtyy ja ruudulle ilmestyy HTML-sivulle kirjoitetut tekstit/uudelleen pelaamisen mahdollisuus. Peli alkaa heti selaimen avatessa ikkunan tai play again-nappia painaessa.

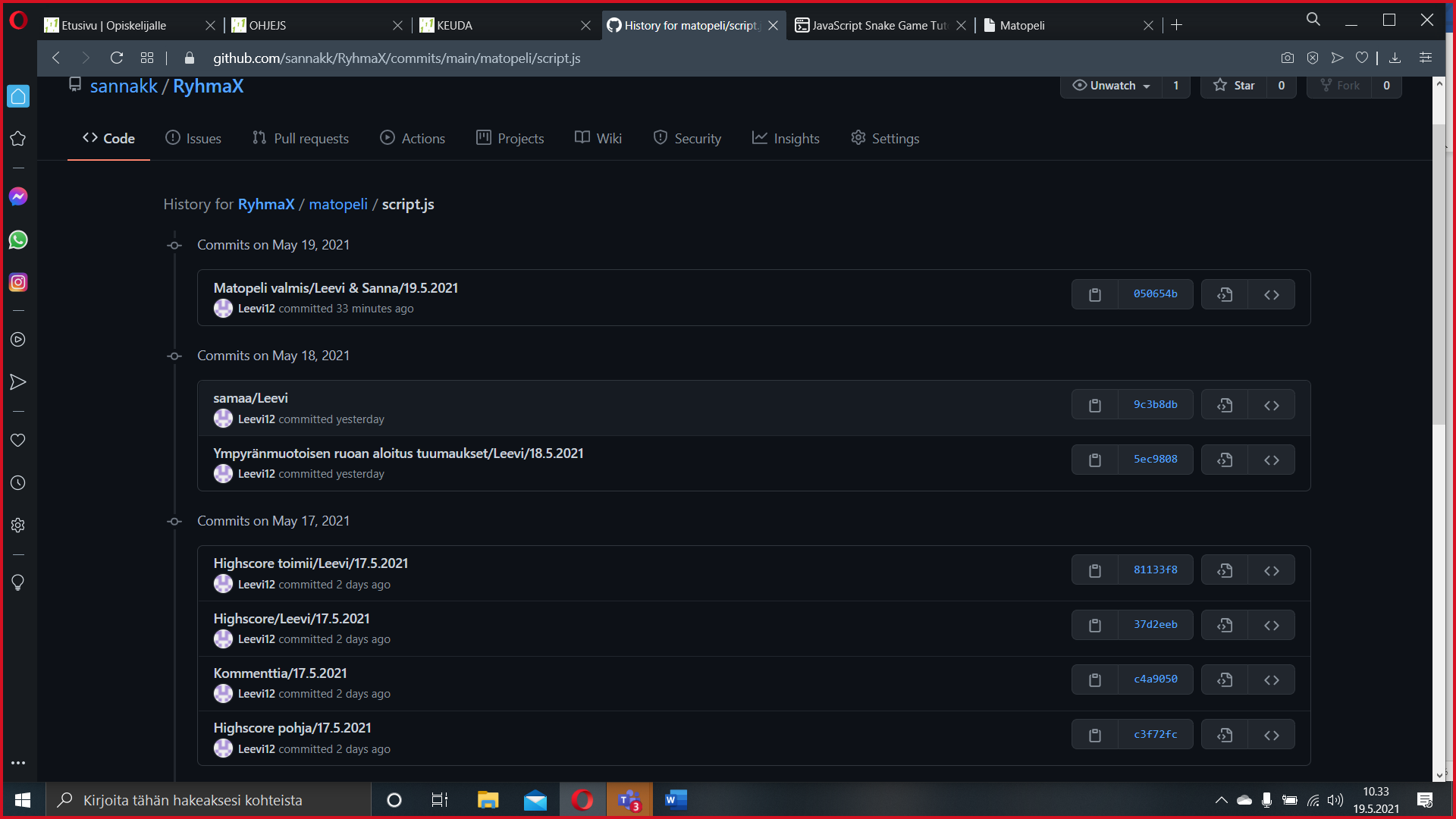
Pistetaulukoissa käytettiin local storagea, jossa ne tallentuvat selaimen muistiin, jotta huippupisteet näkyvät edelleen, vaikka pelin lopettaisi välissä.

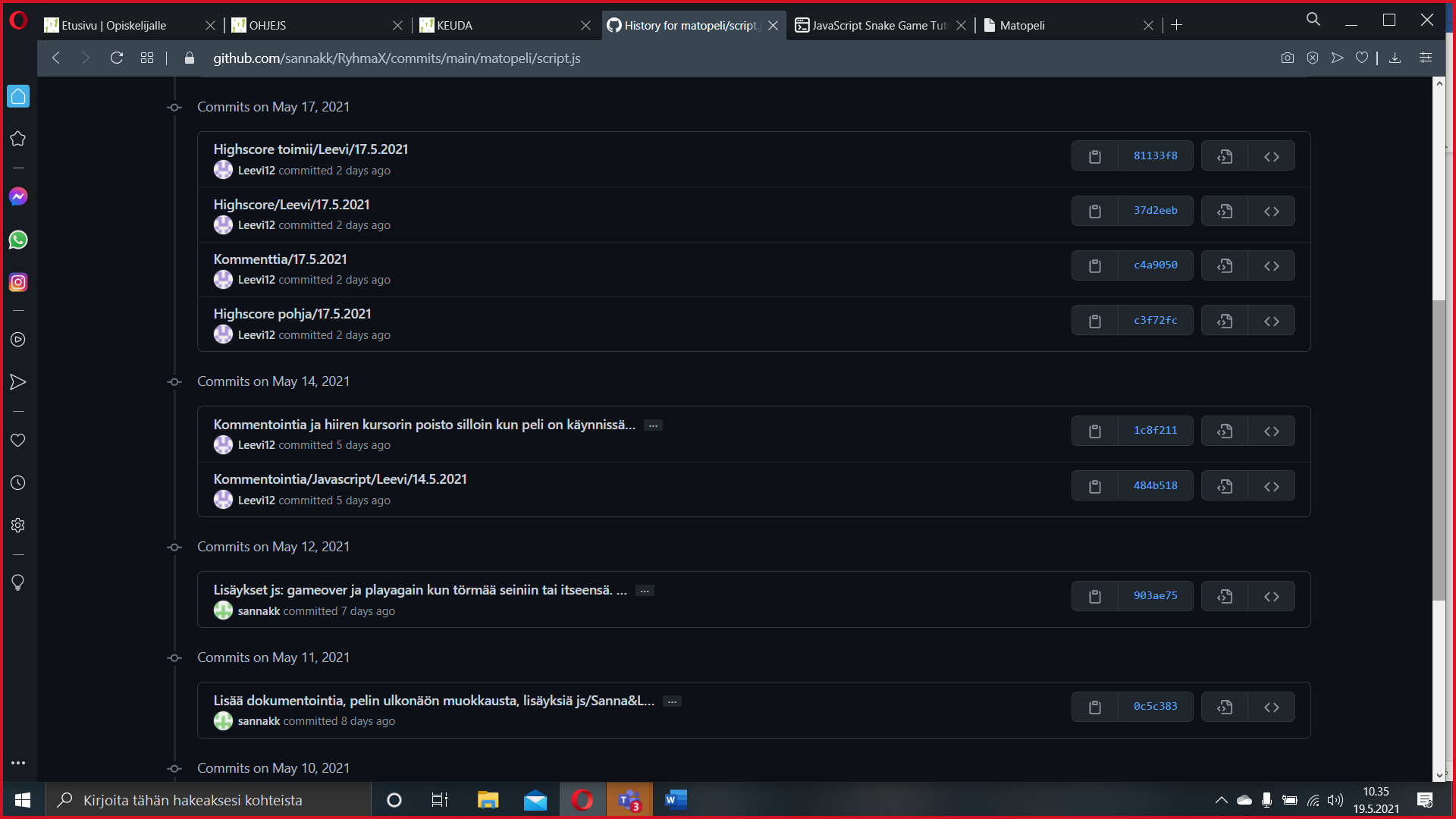
Mockups

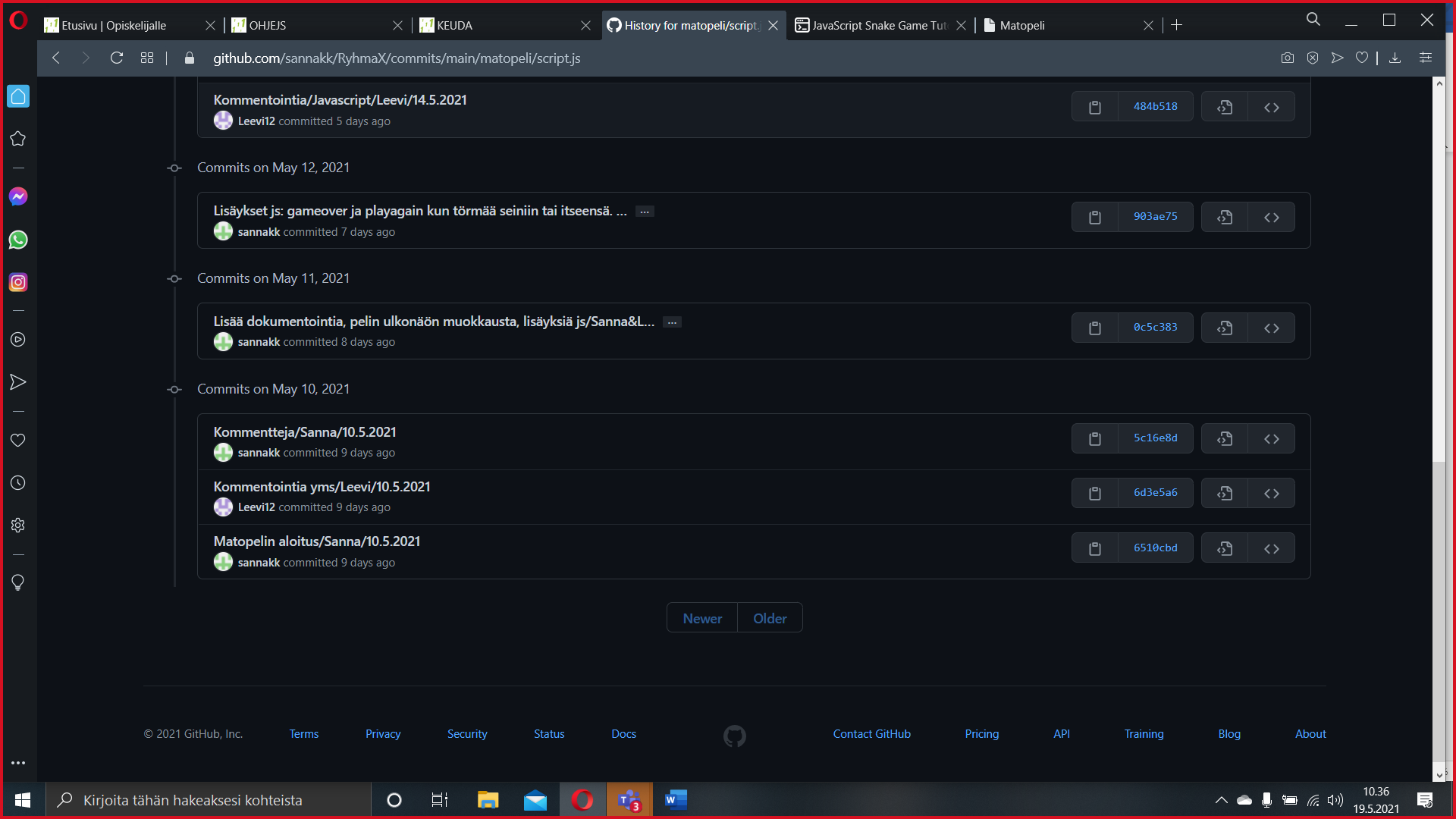
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Työnjako

Tämä projekti tehtiin kaksin ja sovimme, että kumpikin tekee kaikkea tasapuolisesti. Sen lisäksi, että teimme projektia molemmat itsenäisesti niin teimme sitä myös yhdessä teamsin välityksellä. Pelisivun ja itse pelin ulkonäkö ja toiminnot sekä dokumentointi on yhdessä päätetty ja luotu.



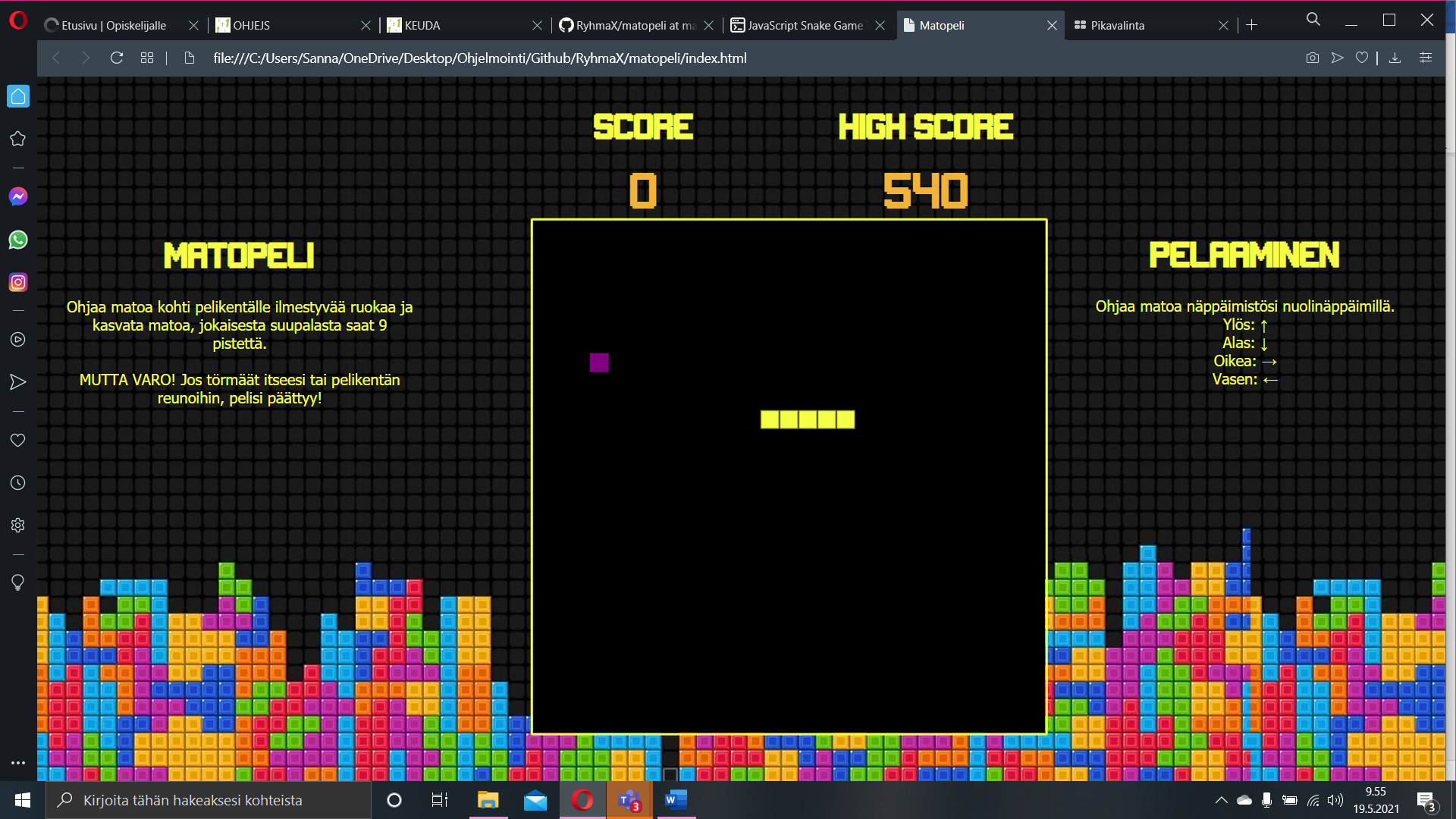




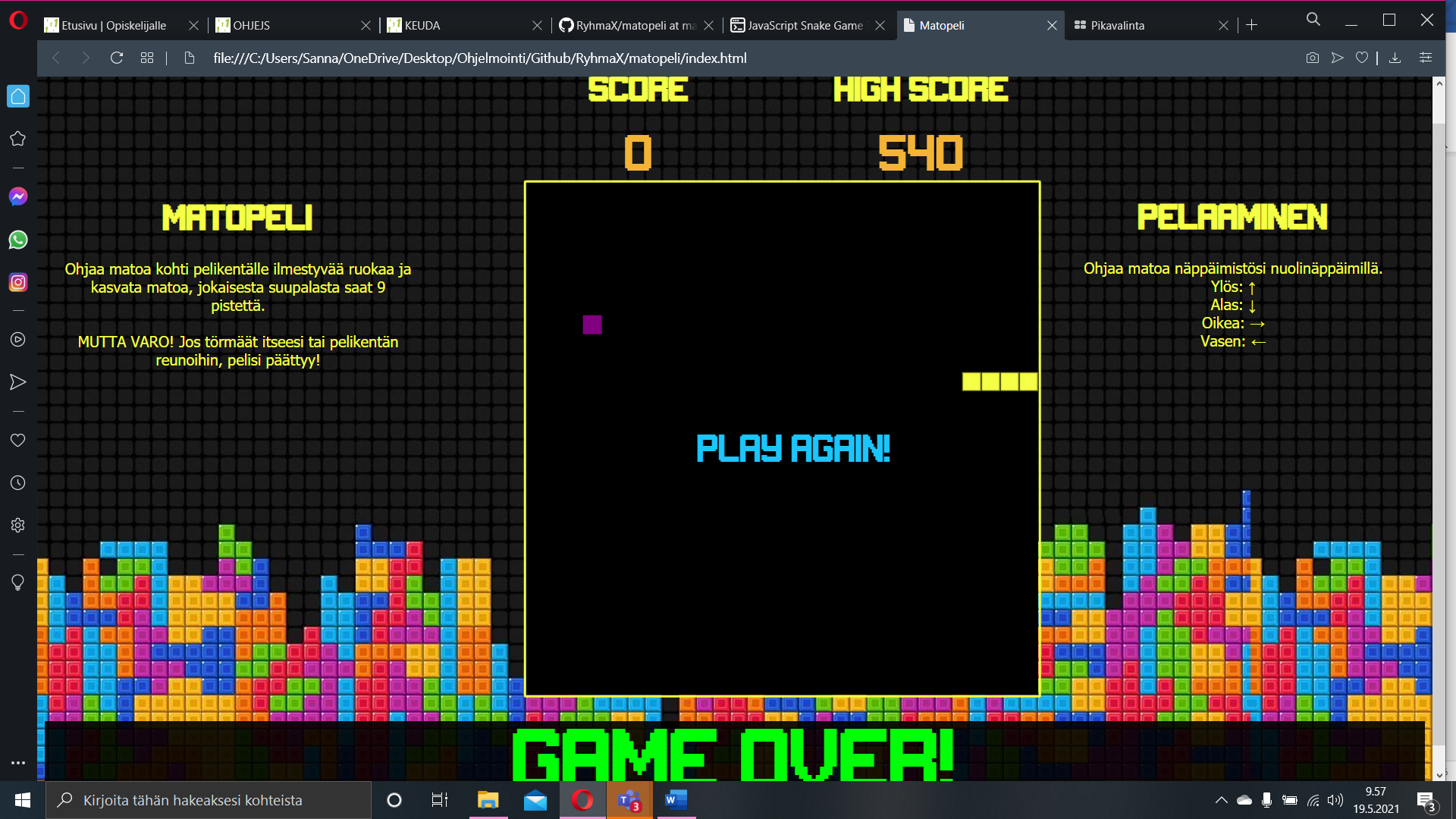
Näiden lisäksi olemme kokeilleet erilaisia vaihtoehtoja ja ideoita pelin ulkonäköön sekä toimivuuteen liittyen, mutta kaikki eivät päätyneet lopulliseen työhön emmekä tallentaneet githubiin kaikkia niitä vaiheita jotka eivät päätyneet lopulliseen peliin.

Valmis peli

Alku



Game over



Pelin testaus

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| --- | --- |
| **Mitä testattin?** | **Millä tavalla?** |
| Pelialusta. | Testasimme näkyykö pelialusta HTML sivulla ja onko se sopivan kokoinen. |
| Madon muoto ja koko. | Testasimme eri kokoja madolle kunnes löysimme mielestämme sopivan. Sekä määrittelimme sen muodon. |
| Madon liikkeet. | Testasimme sen niin, että saimme madon nopeuden sopivaksi ja ettei madon pikselit irtoa toisistaan sen liikkuessa eikä myöskään mene lomittain kääntyessä. |
| Madon siirtyminen | Tarkoitus oli saada pelialusta näyttämään siltä ettei mato jätä mitään jälkeä itsestään jälkeensä vaan että pelialustalla näkyy vain ne neliöt, joiden on tarkoituskin näkyä. Testasimme matoa liikuttelemalla. |
| Madon ohjaus. | Testasimme, että madon kaikki liikkeet toimii toivotusti nuolinäppäimillä. |
| Madon törmäys seiniin tai itseensä. | Tarkoitus on että mato ei voi mennä itsensä eikä seinien läpi ja jos se törmää itseensä tai seiniin niin peli loppuu. Testasimme törmäilemällä madolla niihin. |
| Huippupisteiden päivittyminen. | Testasimme syöttämällä matoa sekä lopettamalla pelin ja aloittamalla uudestaan pisteiden päivittymistä (mm. konsolista) sekä pisteiden säilymistä. |

Ongelmat peliä luodessa

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| **Mikä virhe oli?** | **Mistä se johtui?** | **Miten sen korjasimme** |
| Matoa ei näkynyt pelialustalla. | Emme olleen tehneet funktiota, joka ”piirtää” määrittämämme madon osat pelialustalle. | Tekemällä funktion, jolla saimme näkyviin madon neliöt sekä sen värin määrittämässämme sijainnissa. |
| Mato pystyi liikkua itsensä läpi. | Madolle ei oltu määritelty sitä, että mitä tapahtuu jos sen pää osuu sen pituuteen. | Tekemällä funktion, että jos madon pää törmää sen pituuteen x tai y akselilla se pysähtyy ja peli loppuu. |
| Törmätessä itseensä peli loppui, mutta Game Over teksti ei ilmestynyt. | Puuttui innerHTML-teksti funktiosta, jossa määritellään mitä tapahtuu jos törmää itseensä. | InnerHTML-teksti piti sijoittaa kahteen eri paikkaan, jotta se näkyy kummassakin pelin lopetus tavassa. |
| Pelikentän sisäreunaan jäi tilaa, vaikka madon olisi tarkoitus mennä reunaa myöten. | Laitoimme pelikentän koon 550 x 550 pixeliä ja mato oli 20px leveä, joten siitä johtuen jäi 10px tyhjää oikealle ja ylhäälle. | Muutimme pelikentän kokoon 540 x 540 pixeliä. |
| Ruoka ilmestyi ns. puoliksi rivinen väliin. | Ruuan sijainti funktiossa oli väärät kokomääritteet. | Määrittämällä ruoka samankokoiseksi kun itse mato niiden reitti meni kohdalleen. |
| Madon piirtyminen pelialustalle jatkui loputtomasti. | Koodissa oleva funktio, joka päivittää pelialustaa jatkuvasti, jotta madon neliöt eivät jää näkyviin muutakuin niissä kohdissa missä mato sillä hetkellä on ei toiminut toivotusti. | Funktiolla joka päivittää laudan aina sen jälkeen, kun madon tai ruuan neliöt ovat siirtyneet. |

Pelissä havaitut kehityksen kohteet

-Peli on tarkoitettu pelattavaksi koko näytöllä, eikä siinä ole otettu huomioon responsiivisuutta. Jos peliä haluaisi vielä kehittää, niin siitä voisi tehdä responsiivisen.

-Peli alkaa heti selaimen avautuessa ja jos peliä haluaisi vielä kehittää, niin siihen voisi tehdä ”aloita peli”-napin, jota painamalla peli vasta alkaisi.

Olemme huomioineet nämä asiat, mutta halusimme tehdä pelistä tämänlaisen kuin se nyt on.