

FACETWNE

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Graphical User Interface

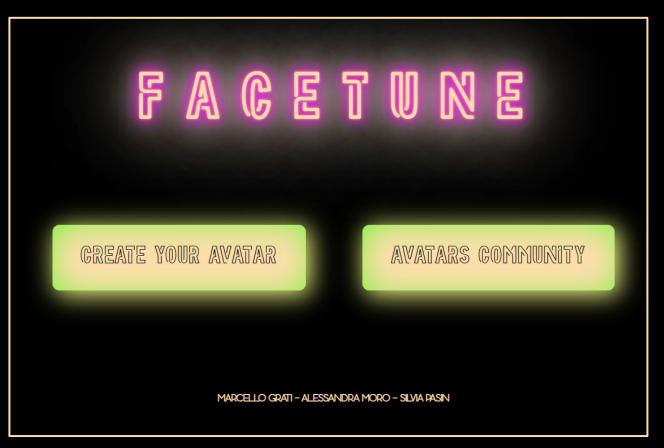
Homepage



index.html



style.css



FACETUNE

CREATE YOUR AVATAR

Nickname:

Confirm

Create your avatar



avatar page.html



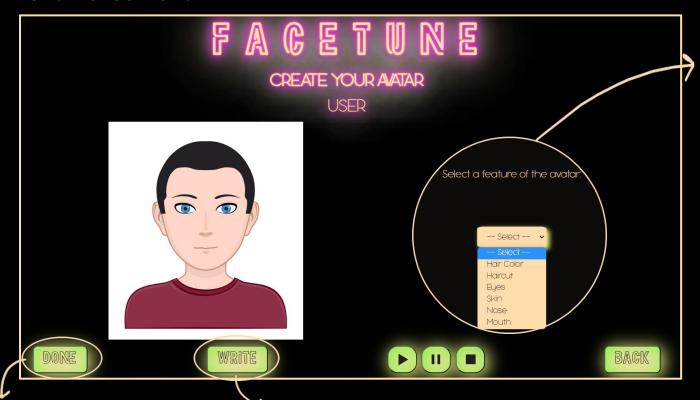
avatarpage_style.css



avatarpage_app.js



Avatar creation:



Creation completed and avatar saved in the at une is generated and played.

"Avatars community"

According to the chosen characteristics, a tune is generated and played.

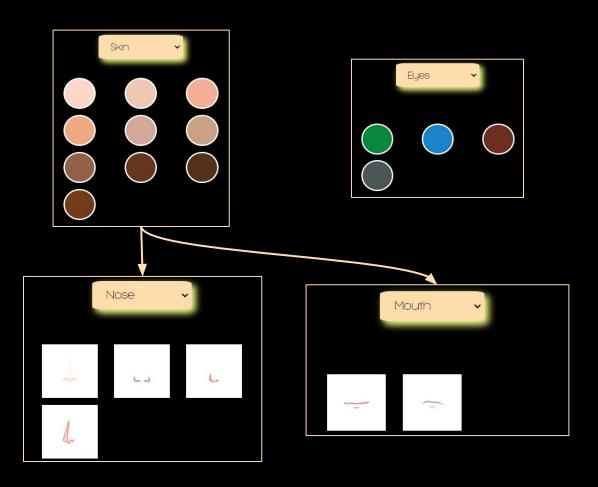
It's still possible to modify the avatar.

Selection of features:

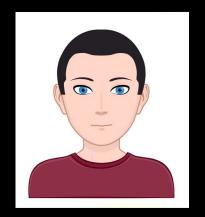
- Hair color
- Haircut
- Eyes color
- Skin color
- Nose shape
- Mouth shape

Selection of features:









The image of the avatar is created using Scalable Graphics Vector format. Each shape is created through the tag <path> and then, using the tag <g>, grouped together to form the various part of the body.

The elements whose color can be changed from the user, are assigned to a class defined in the .css according to the color chosen.



For what concerns haircut, nose and mouth, SVG images of the features are used inside of the main SVG (body.svg).

<use id="haircut" href="1h.svg#1h" class="brown hair"/>



<use id="nose" href="type4n.svg#type4n" class="skin81"/>



<use id="mouth" href="type2m.svg#type2m" class="skin81"/>



FACETUNE

CREATE YOUR AVATAR

NICO











FACETUNE

Avatars Community



community page.html



community style.css



community_app.js

AVATARS COMMUNITY





Avatars community:



Database management





Creation of table genoma:

```
const db = require('better-sqlite3')('facetune.db');
db.prepare(
 `CREATE TABLE IF NOT EXISTS genoma (
   haircolor TEXT NOT NULL,
   haircut TEXT NOT NULL,
   eyes TEXT NOT NULL,
   skin TEXT NOT NULL,
   nose TEXT NOT NULL,
   mouth TEXT NOT NULL,
   username TEXT NOT NULL,
   score REAL DEFAULT 0,
   votes INTEGER DEFAULT 0,
   id INTEGER DEFAULT 0
).run();
```

Insertion of new avatar:

```
db.prepare(
  `INSERT INTO genoma (haircolor, haircut, eyes, skin, nose, mouth, username, id)
VALUES (?, ?, ?, ?, ?, ?, ?) `,).run(...avatar_da_salvare);
```

Filtering of avatars:

```
const query = `SELECT * FROM genoma WHERE ${filters[0]} LIKE ?; `;
const filtered avatars = db.prepare(query).all(filters[1]);
```

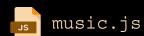
Updating the score:

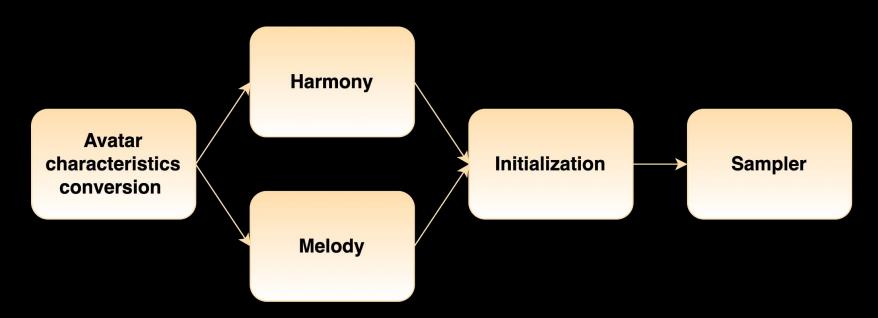
```
const existingAvatars = db.prepare('SELECT * FROM genoma WHERE id = ?).all(id);

db.transaction(() => {
   if (existingAvatars.length > 0) {
      const updateStmt = db.prepare('UPDATE genoma SET score = ?, votes = ? WHERE id = ?);
      existingAvatars.forEach(existingAvatar => {
        updateStmt.run(score, votes,id);
      }); }}();
```

Example of 'filters': filters = [hair_color, red_hair]

• Music generation





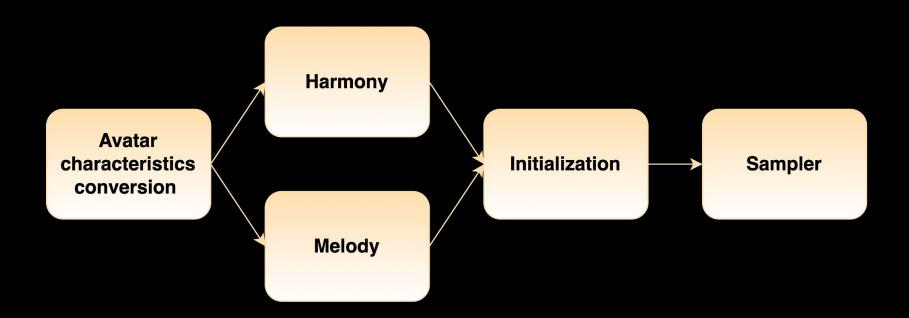


Chord progression, melody notes and durations

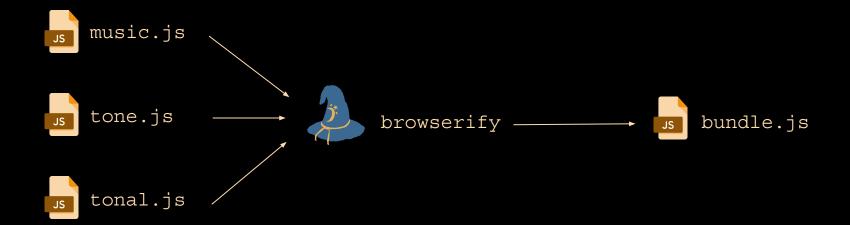
Seed for random

generation

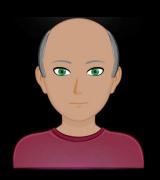
All features



Libraries













Thank you for the attention!









