

Bootstrap & Tailwind

Introduction

Bootstrap a été créé par Twitter

En 2011

Problèmes que résout Bootstrap

- Créer une UI cohérente et réactive est complexe et prend du temps.
- Les développeurs doivent pouvoir itérer rapidement au démarrage d'un projet.
- Les développeurs orientés "back-end" ont besoin de simplicité côté "front-end".

Solution de Bootstrap

Fournir un ensemble de **composants** et de grilles **réutilisables** pour créer des interfaces rapidement et efficacement.

Tailwind a été créé par Adam
Wathan

En 2017

Problèmes que résout Tailwind

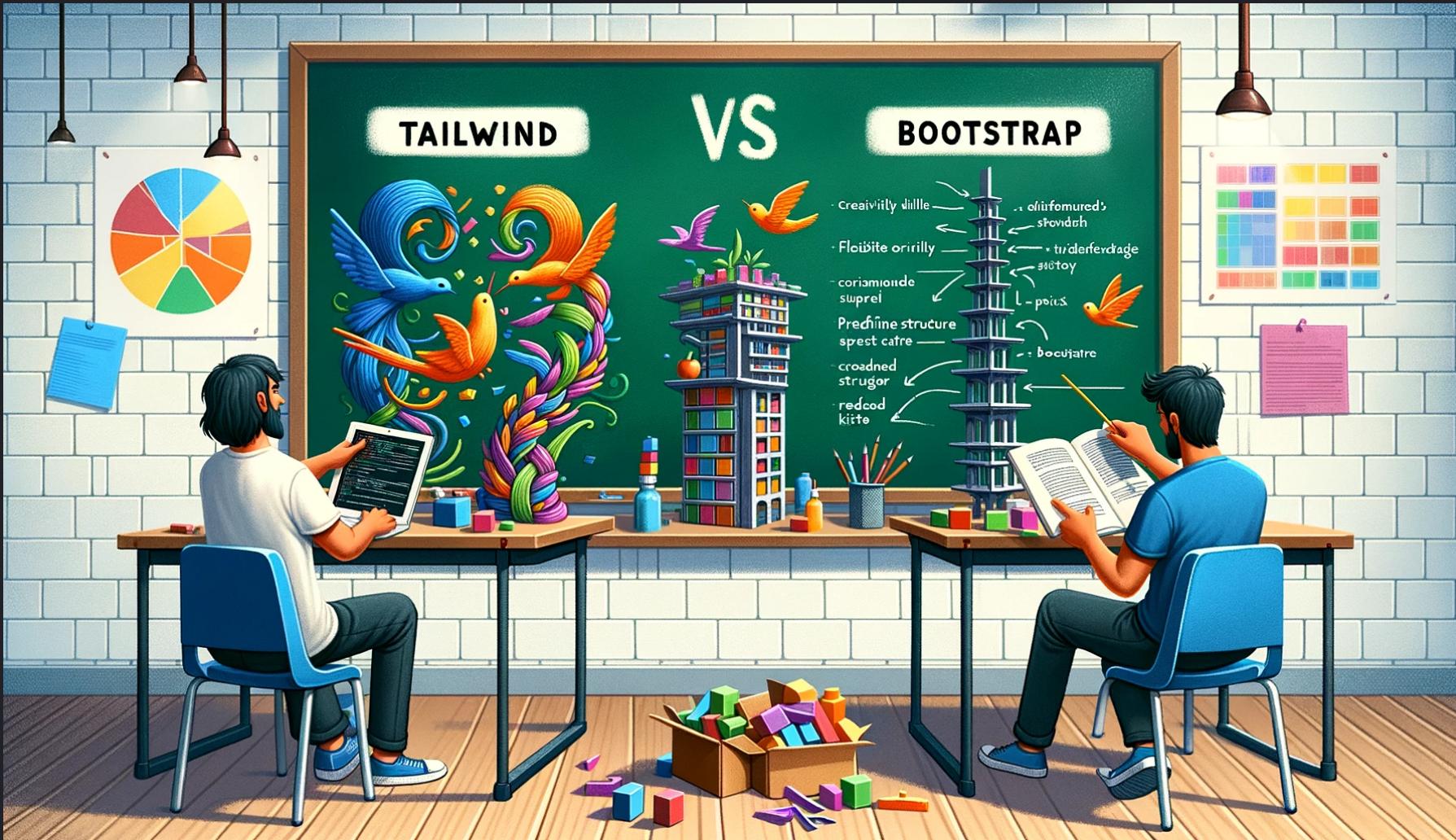
- Écrire du CSS est complexe et fastidieux.
- Les frameworks de composants comme **Bootstrap** n'offrent pas assez de flexibilité.
- Les frameworks actuels sont parfois trop lourds par rapport aux besoins.

Solution de Tailwind

Fournir un ensemble de **classes utilitaires** pour créer des interfaces rapidement et avec efficacité.

Comparaison

Bootstrap & Tailwind



Exemple

Bootstrap

🔗 : <https://getbootstrap.com/docs/5.3/examples>



```
1 <table class="table">
2   <thead>
3     <tr>
4       <th scope="col">#</th>
5       <th scope="col">Nom</th>
6       <th scope="col">Difficulté</th>
7       <th scope="col">Priorité</th>
8       <th scope="col">Actions</th>
9     </tr>
10    </thead>
11    <tbody>
12      <tr>
13        <th scope="row">1</th>
14        <td>Faire le TP 1</td>
15        <td>Facile</td>
16        <td>Haute</td>
17        <td>
18          <div class="btn btn-danger">Supprimer</div>
19        </td>
20      </tr>
21    </tbody>
22  </table>
```

Pricing

Quickly build an effective pricing table for your potential customers with this Bootstrap example. It's built with default Bootstrap components and utilities with little customization.

Free

\$0/mo

10 users included
2 GB of storage
Email support
Help center access

[Sign up for free](#)

Pro

\$15/mo

20 users included
10 GB of storage
Priority email support
Help center access

[Get started](#)

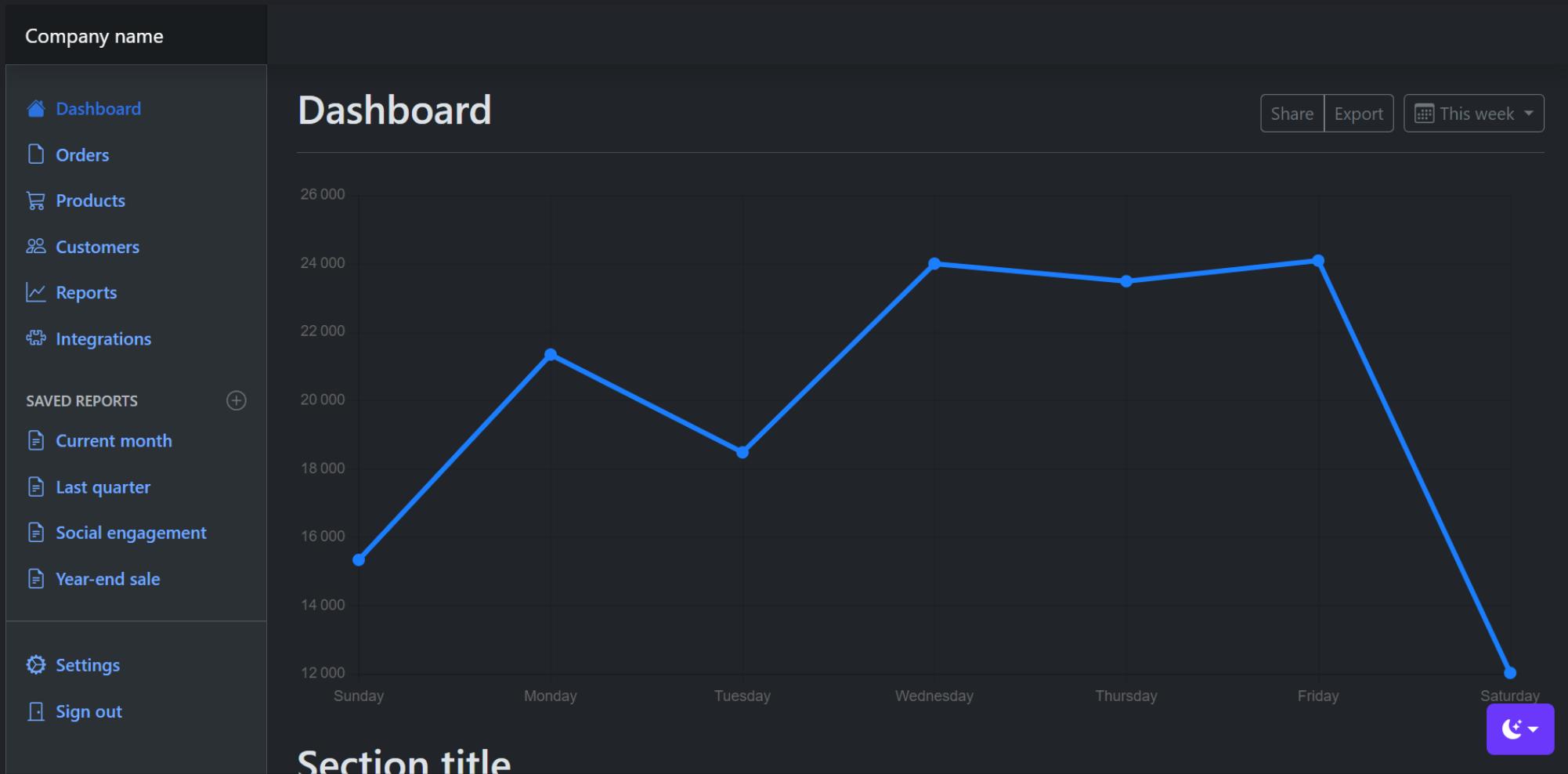
Enterprise

\$29/mo

30 users included
15 GB of storage
Phone and email support
Help center access

[Contact us](#)





Exemple

Tailwind

🔗 : <https://tailwindcss.com/showcase/openai>



```
1 <table class="w-full">
2   <thead>
3     <tr class="border-b">
4       <th class="py-2" scope="col">#</th>
5       <th class="py-2" scope="col">Nom</th>
6       <th class="py-2" scope="col">Difficulté</th>
7       <th class="py-2" scope="col">Priorité</th>
8       <th class="py-2" scope="col">Actions</th>
9     </tr>
10    </thead>
11    <tbody class="w-100">
12      <tr class="py-2 border-b">
13        <th class="px-2" scope="row">1</th>
14        <td class="py-2">Faire le TP 1</td>
15        <td class="py-2">Facile</td>
16        <td class="py-2">Haute</td>
17        <td class="py-2">
18          <div
19            class="w-fit bg-red-600 rounded-md text-white py-1.5 px-3 cursor-pointer"
20          >
21            Supprimer
22          </div>
23        </td>
24      </tr>
25    </tbody>
26  </table>
```



Overview

Work

Services

About

Contact

START

we craft alternative brands
and wicked-fast websites

smol

Jōtai

MEGAN
MOSHOLDER



nectar.

COGGS
CIRCUS

FEMME

flash
box



Message(role: .bot, text: "Of course, happy to help! Did you know that the sun's energy comes from nuclear fusion?"),
Message(role: .user, text: "Really? Why is that so?"),
Message(role: .bot, text: "Yes, nuclear fusion is the process of combining light atomic nuclei into heavier ones. In the process, mass is converted into energy, which is released as heat and light. This is what powers the sun and other stars."),
Message(role: .user, text: "That's incredible. Is there any way we can harness nuclear fusion here on Earth?"),
Message(role: .bot, text: "Scientists are working on it! Nuclear fusion has the potential to be a nearly limitless source of energy, as there is a vast amount of deuterium and tritium available in the ocean and atmosphere. However, it requires extremely high temperatures and pressures to initiate the reaction, which poses significant engineering challenges."),
Message(role: .user, text: "That's fascinating. What are some other cool scientific discoveries that have been made recently?"),
Message(role: .bot, text: "Well, just a few years ago, scientists detected gravitational waves for the first time. These are ripples in the fabric of space-time caused by the collision of two black holes or neutron stars. It was a major breakthrough in our understanding of the universe."),
Message(role: .user, text: "Wow, that sounds incredible. How did they detect the waves?"),
Message(role: .bot, text: "They used incredibly sensitive instruments called interferometers to detect tiny changes in the distance between mirrors separated by millions of kilometers. It's like being able to measure the width of a hair from another continent!"),
Message(role: .user, text: "That's amazing. Science truly is a remarkable field. What do you think are some of the biggest challenges facing science today?"),
Message(role: .bot, text: "There are so many! Some of the biggest challenges include understanding the mysteries of dark matter and dark energy, finding a way to reverse climate change, and developing safe and effective artificial intelligence systems that can work in collaboration with humans without causing harm or accidentally causing damage. Those are definitely some huge challenges. But it's encouraging to know that there are scientists and researchers working on them every day!"),
Message(role: .user, text: "Absolutely! Science is all about exploring the unknown and making new discoveries that can improve our lives and benefit society. Thanks for all the amazing information! I'm excited to keep learning more about science."),
Message(role: .bot, text: "It's my pleasure! Let me know if you have any more questions or if there's a specific topic you'd like to learn more about. I'm curious about the double slit experiment. Why is it considered spooky?"),
Message(role: .user, text: "I've heard of it, but I don't really understand it. Can you elaborate a bit more?"),
Message(role: .bot, text: "Sure! The double slit experiment is a classic thought experiment in quantum mechanics. It involves shining a beam of particles, such as electrons or photons, onto a screen with two slits. If you only look at one slit at a time, the particles pass through it and form a single, sharp interference pattern on the screen. However, if you look at both slits simultaneously, the particles act as if they are passing through both slits at once, creating a complex interference pattern where the particles appear to travel through both slits simultaneously. This is considered 'spooky' because it seems to defy common sense and our classical intuition about how particles behave. It's a bit like saying a particle can be in two places at once, which is a fundamental aspect of quantum mechanics that we still don't fully understand!"),

Creating safe AGI that benefits all of humanity

[Learn about OpenAI](#)

|| Pause video

3 TP à réaliser

Clonez le dépôt Git suivant :

```
git clone https://github.com/FournyP/Tailwind-Bootstrap-course.git
```

Documentation de Tailwind : <https://tailwindcss.com/docs>

Documentation de Bootstrap : <https://getbootstrap.com/docs>

TP 1

Créez avec Bootstrap puis avec Tailwind une carte de profil :

- Une image de profil
- Un nom
- Une brève description



Voir la classe "card" dans Bootstrap

TP 1 - Résultat attendu



Oussama Ammar
A rencontré Christopher Nolan au Taj Mahal et lui a donné l'idée du film Inception.

TP 2

Créez avec Bootstrap puis avec Tailwind un formulaire de connexion :

- Un identifiant (login)
- Un mot de passe
- Un bouton de connexion



Consultez la documentation sur les "forms" dans Bootstrap

TP 2 - Résultat attendu

Connexion

Nom d'utilisateur

Entrez votre nom d'utilisateur

Mot de passe

Entrez votre mot de passe

Se connecter

TP 3

Créez avec **Bootstrap** puis avec **Tailwind** une barre de navigation :

- Un logo
- Un menu
- Un bouton de connexion



Consultez la documentation sur les "navbars" dans Bootstrap

TP 3 - Résultat attendu

Logo

Accueil (current) Fonctionnalités Prix Désactivé

Connexion

Pour aller plus loin

Bootstrap

- Evénements **JavaScript** (ex : ouverture d'une modale).
- Basée sur **SASS** (personnalisation avancée).
- **Compatibilité** avec tous les navigateurs modernes.
- **Communauté vaste**, support, ressources abondantes.

Pour aller plus loin

Tailwind

- Approche **Mobile-First** et responsive design facilité.
- Intègre PurgeCSS (supprime le CSS inutilisé)
- **Compatibilité** avec tous les navigateurs modernes.
- Extensions comme **Tailwind UI**, et d'autres bibliothèques "Bootstrap like".
- **Communauté** dynamique, support, ressources abondantes.