

Frontend raamistikud. Bootstrap.

# Milleks üldse CSS raamistikud?

Eelised ja puudused

# Raamistike eelised

- Kiire alustada
- Eri brauserite tugi
- Sunnib peale head harjumused
- Dokumentatsioon
- Valmiskomponendid
- Kasutatud paremaid praktikaid

# Raamistike puudused

- Alustamine keeruline

<https://getbootstrap.com/docs/4.4/getting-started/build-tools/>

- Piirav. Sunnib peale enda reeglid

<https://getbootstrap.com/docs/3.3/examples/jumbotron-narrow/> vs <http://www.randomoonium.ee/>

- Võivad olla liiased.

<https://gist.github.com/primaryobjects/64a4e7e3351c646f51eee07949215ad4>

# Bootstrap

... is a free and open-source front-end Web framework developed by Twitter since 2010 running on 15% of all websites as of 2026.

As of 2023 Bootstrap is the 4<sup>th</sup> most-starred library on GitHub, with more than 174,000 stars and is currently the world's most popular front-end component library.

Katsetame :)

```
<head>...</head>
<body>
  <div id="app">
    <todo-application>
      #shadow-root (open)
        <link rel="stylesheet" type="text/css" href="//
maxcdn.bootstrapcdn.com/bootstrap/4.0.0-beta.2/css/
bootstrap.min.css">
        <style>...</style>
        <nav class="navbar navbar-expand-md navbar-dark bg-dark">...</nav>
        <main class="container">
          <todo-form>
            <style>...</style>
            <div class="card todo-form">...</div>
          </todo-form>
          <hr>
          <todo-list ref="list">
            <style>...</style>
            <h2>Tasks:</h2>
            <ul ref="todos" class="list-group">
              <todo-task ref="task-1517176192142" id="task-1517176192142">
                ...</todo-task> == $0
              <todo-task ref="task-1517176320397" id="task-1517176320397">
                ...</todo-task>
              <todo-task ref="task-1517176329096" id="task-1517176329096">
                ...</todo-task>
              <todo-task ref="task-1517176334849" id="task-1517176334849">
                ...</todo-task>
            </ul>
          </todo-list>
        </main>
      </todo-application>
    </div>
  </body>
</html>
```

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# Küsimused ja vastused

**Tänan :)**

# Viited

- 1 **Learn to become a modern Frontend Developer in 2026**

<https://roadmap.sh/frontend>

- 2 **Bootstrap**

<http://getbootstrap.org>

- 3 **Bootstrap Get Started**

[https://www.w3schools.com/bootstrap/bootstrap\\_get\\_started.asp](https://www.w3schools.com/bootstrap/bootstrap_get_started.asp)

**Type headline**