

CSS Space Rocket Exercise

Objective: Design and animate a space rocket using HTML and CSS.

Setup

- Start with a main container for the rocket.
- Add child `div` elements for the rocket's body, fins, window, and flame.

Tasks

1. Style the Rocket Body:

- Make it tall and cylindrical with a pointed end (like a triangle).
- Use a metallic or gray color.

2. Create the Fins:

- Position two fins on opposite sides of the rocket body.
- Angle them with CSS transforms.

3. Add the Window:

- Place a circular window towards the top of the rocket body.
- Use a contrasting color to make it stand out.

4. Animate the Flame:

- Attach a flame shape to the bottom of the rocket.
- Use CSS animations to make it flicker.

Considerations

- Think about the positioning context of each element (`relative`, `absolute`).
- Determine the pivot point for rotation of the fins (`transform-origin`).
- Plan the keyframes for the flame animation to create a realistic effect.

Bonus Challenges

- Create a "launch" animation that moves the rocket upwards on a click.
- Animate twinkling stars in the background.
- Implement a hover effect that increases the size of the flame.

