

SECTION 2

HTML

Giving Your Content More Structure

What is HTML

Hyper Text Markup Language

```
2 <h1>NASA Astronauts</h1>
3 <ul>
4   <li><a href="http://nasa.gov">nasa.gov</a></li>
5   <li><a href="http://www.spacecamp.com">spacecamp.com</a></li>
6 </ul>
7 
8 <h2>How to become an astronaut</h2>
9 <p> The word "astronaut" comes from the Greek words meaning "space sailor." There are a variety of space
professions and duties—from commander, pilot, mission specialist, for example—and varying qualifications for each.
However, all qualifications include:<p>
10 <ul>
11   <li>Physical health requirements</li>
12   <li>Height requirements</li>
13   <li>Visual requirements</li>
14   <li>Bachelor's degree from an accredited institution in engineering, biological science, physical science, or
mathematics</li>
15 </ul>
16 <p><a
href="https://www.nasa.gov/audience/forstudents/postsecondary/features/F_Astronaut_Requirements.html">Find out
more</a> about the requirements for becoming a NASA Astronaut.</p>
17 <blockquote><em>"What everyone in the astronaut corps shares in common is not gender or ethnic background, but
motivation, perseverance, and desire—the desire to participate in a voyage of discovery."</em> –Ellen
```

Paragraph Element

The word "astronaut" comes from the Greek words meaning "space sailor."

Paragraph Element

Opening Tag



`<p>`The word "astronaut" comes from the Greek words meaning "space sailor."`</p>`



Closing Tag



Paragraph Element

Opening Tag



<p>The word "astronaut" comes from the Greek words meaning "space sailor."



Closing Tag

Paragraph Element

Opening Tag

`<p>`The word "astronaut" comes
from the Greek words meaning
"space sailor."`</p>`

Closing Tag

Paragraph Element

Opening Tag



`<p>`The word "astronaut" comes from the Greek words meaning "space sailor."

A grey circle highlights the closing tag '</p>' in the code. A light blue line diagram shows a vertical line from the text 'Closing Tag' below, which then branches horizontally to the left and right, and then vertically up to the closing tag '</p>' inside the circle.

Closing Tag

**Marking Up the `<p>`
Elements in the Browser**

Heading Elements

```
<h1>Level One</h1>
```

```
<h2>Level Two</h2>
```

```
<h3>Level Three</h3>
```

```
<h4>Level Four</h4>
```

```
<h5>Level Five</h5>
```

```
<h6>Level Six</h6>
```

**Marking Up the `<h>`
Elements in the Browser**

Heading Elements with Paragraph Elements

```
<h1>NASA Astronauts</h1>
```

```
<h2>How to Become an Astronaut</h2>
```

```
<p>The word “astronaut” comes from the  
Greek words meaning “space sailor”</p>
```

```
<h2>Women in Space</h2>
```

```
<p>Mae Jemison, Anousheh Ansari, and K.  
Megan McArthur are all astronauts.</p>
```

Heading Elements with Paragraph Elements

```
<h1>NASA Astronauts</h1>  
<h2>How to become an astronaut</h2>  
<p>The word “astronaut” comes from the  
Greek words meaning “space sailor”</p>  
<h2>Women in Space</h2>  
<p>Mae Jemison, Anousheh Ansari, and K.  
Megan McArthur are all astronauts.</p>
```

Heading Elements with Paragraph Elements

```
<h1>NASA Astronauts</h1>
```

```
<h2>How to become an astronaut</h2>
```

```
<p>The word “astronaut” comes from the  
Greek words meaning “space sailor”</p>
```

```
<h2>Women in Space</h2>
```

```
<p>Mae Jemison, Anousheh Ansari, and K.  
Megan McArthur are all astronauts.</p>
```

Heading Elements with Paragraph Elements

```
<h1>NASA Astronauts</h1>
```

```
<h2>How to become an astronaut</h2>
```

```
<p>The word “astronaut” comes from the  
Greek words meaning “space sailor”</p>
```

```
<h2>Women in Space</h2>
```

```
<p>Mae Jemison, Anousheh Ansari, and K.  
Megan McArthur are all astronauts.</p>
```

Heading Elements with Paragraph Elements

```
<h1>NASA Astronauts</h1>
```

```
<h2>How to become an astronaut</h2>
```

```
<p>The word “astronaut” comes from the  
Greek words meaning “space sailor”</p>
```

```
<h2>Women in Space</h2>
```

```
<p>Mae Jemison, Anousheh Ansari, and K.  
Megan McArthur are all astronauts.</p>
```


**Marking Up the `<p>` and `<h>`
Elements in the Browser**

Blockquote Element

```
<bblockquote>"What everyone in the astronaut  
corps shares in common is not gender or  
ethnic background, but motivation,  
perseverance, and desire—the desire to  
participate in a voyage of discovery." –  
Ellen Ochoa</blockquote>
```

Marking Up the Blockquote Elements in the Browser

Unordered List

```
<h2>Qualifications include:</h2>
```

```
<ul>
```

```
</ul>
```

Unordered List

```
<h2>Qualifications include:</h2>
```

Opening
Tag

```
<ul>
```

```
<li>Physical health requirements</li>
```

```
<li>Height requirements</li>
```

```
<li>Visual requirements</li>
```

```
<li>Bachelor's degree from an accredited  
institution in engineering, biological  
science, physical science, or  
mathematics</li>
```

Nested
Tags

Closing
Tag

```
</ul>
```

Unordered List

```
<h2>Qualifications include:</h2>
```

Opening
Tag

```
<ul>
```

```
<li>Physical health requirements</li>
```

```
<li>Height requirements</li>
```

```
<li>Visual requirements</li>
```

```
<li>Bachelor's degree from an accredited  
institution in engineering, biological  
science, physical science, or  
mathematics</li>
```

Nested
Tags

Closing
Tag

```
</ul>
```

Unordered List

`<h2>Qualifications include:</h2>`

Opening
Tag

``

`Physical health requirements`

`Height requirements`

`Visual requirements`

`Bachelor's degree from an accredited
institution in engineering, biological
science, physical science, or`

`mathematics`

Closing
Tag

``

Nested
Tags

**Marking Up the ``
Elements in the Browser**

Ordered List

```
<h1>Steps to Become an Astronaut</h1>
```

```
<ol>
```

```
  <li>Obtain a Bachelor's degree from an  
  accredited institution.</li>
```

```
  <li>Apply to the space program.</li>
```

```
  <li>Pass the health screening.</li>
```

```
  <li>Train to travel to space.</li>
```

```
</ol>
```

Ordered List

```
<h1>Steps to Become an Astronaut</h1>
```

```
<ol>
```

```
<li>Obtain a Bachelor's degree from an  
accredited institution.</li>
```

```
<li>Apply to the space program.</li>
```

```
<li>Pass the health screening.</li>
```

```
<li>Train to travel to space.</li>
```

```
</ol>
```

**Marking Up the ``
Elements in the Browser**

Anchor Element

Opening Tag



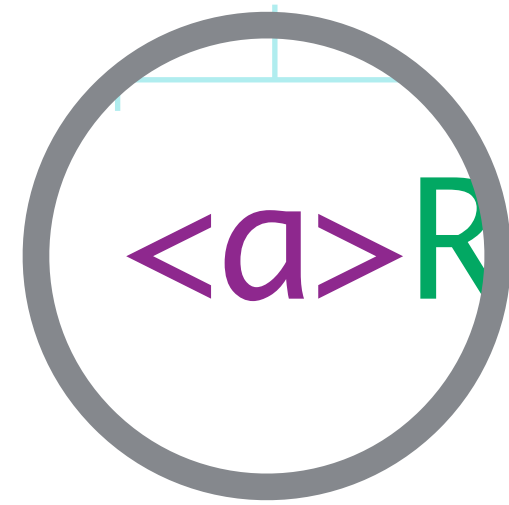
```
<a>Read more about NASA</a>
```



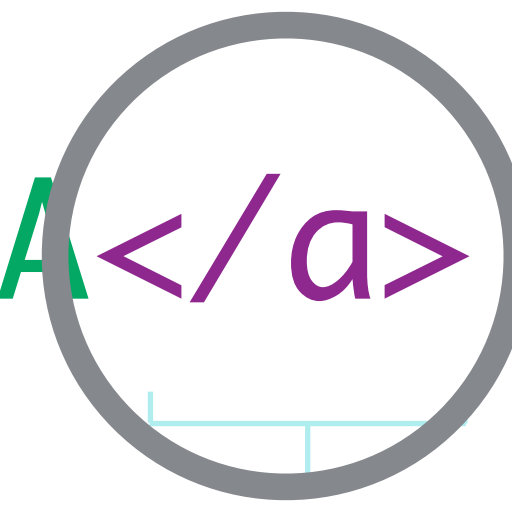
Closing Tag

Anchor Element

Opening Tag



Read more about NASA



Closing Tag

Anchor Element

Opening Tag

```
<a>Read more about NASA</a>
```

The diagram shows the HTML code for an anchor element: `<a>Read more about NASA`. The opening tag `<a>` is highlighted in purple and has a light blue bracket above it labeled "Opening Tag". The text "Read more about NASA" is highlighted in green and enclosed in a grey rounded rectangle. The closing tag `` is also highlighted in purple and has a light blue bracket below it labeled "Closing Tag".

Closing Tag

Anchor Element

Attribute

Value



The diagram shows the HTML code `Read more about NASA`. A light blue bracket above the code spans from the start of the opening tag to the end of the closing tag. A vertical line drops from the center of this bracket to the word "Attribute". Another vertical line drops from the center of the opening tag to the word "Value".

```
<a href="http://nasa.gov">Read more about NASA</a>
```

**Marking Up the `<a>`
Elements in the Browser**

Image Element

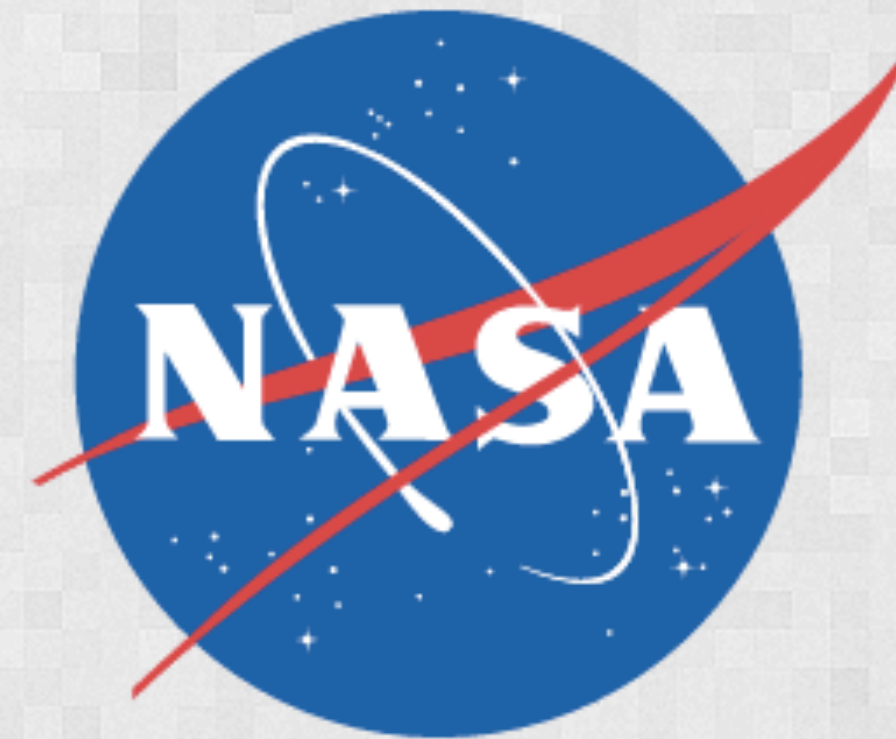
HOW TO BECOME AN ASTRONAUT

The word "astronaut" comes from the Greek words meaning "space sailor." There are a variety of space professions and duties—from commander, pilot, mission specialist, for example—and varying qualifications for each. However, all qualifications include:

- Physical health requirements
- Height requirements
- Visual requirements
- Bachelor's degree from an accredited institution in engineering, biological science, physical science, or mathematics

[Find out more about the requirements for becoming a NASA Astronaut.](#)

"What everyone in the astronaut corps shares in common is not gender or ethnic background, but motivation, perseverance, and desire—the desire to participate in a voyage of discovery." —Ellen Ochoa



ABOUT NASA

The National Aeronautics and Space Administration (NASA) is an independent agency of the executive branch of the United States federal government responsible for the civilian space program as well as aeronautics and aerospace research.

[Read more about NASA](#)

Image Element

Diagram illustrating the structure of the HTML `` element:

```

```

The diagram labels the components of the `` tag:

- Attribute Value One:** `src="images/logo.jpg"`
- Space:** The space character between the two attributes.
- Attribute Value Two:** `alt="NASA Logo"`

Image Element

Self Closing Element

```

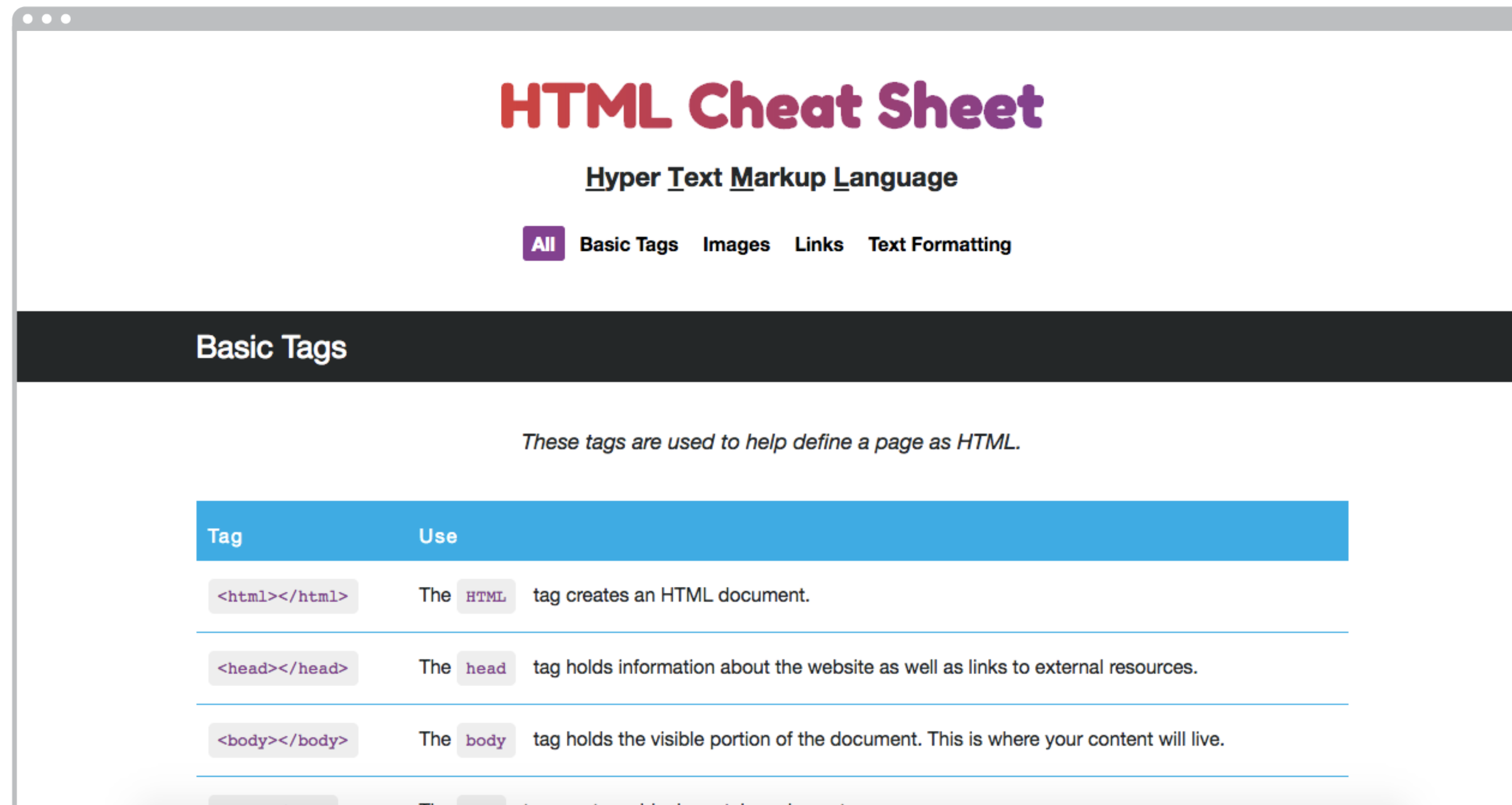
```



**Marking Up the ``
Elements in the Browser**

HTML Cheat Sheet

<http://bit.ly/gcc-html>



The screenshot shows a web browser window displaying an HTML Cheat Sheet. The page has a white background with a dark grey header bar. The main title 'HTML Cheat Sheet' is in a large, bold, purple font. Below it, the subtitle 'Hyper Text Markup Language' is in a smaller, bold, black font. A navigation menu with a purple square icon and the text 'All' is followed by links for 'Basic Tags', 'Images', 'Links', and 'Text Formatting'. The 'Basic Tags' section is highlighted with a dark grey background. Below this, a paragraph states 'These tags are used to help define a page as HTML.' A table with two columns, 'Tag' and 'Use', lists the basic HTML tags: <html></html>, <head></head>, and <body></body>.

HTML Cheat Sheet

Hyper Text Markup Language

All Basic Tags Images Links Text Formatting

Basic Tags

These tags are used to help define a page as HTML.

Tag	Use
<code><html></html></code>	The <code>HTML</code> tag creates an HTML document.
<code><head></head></code>	The <code>head</code> tag holds information about the website as well as links to external resources.
<code><body></body></code>	The <code>body</code> tag holds the visible portion of the document. This is where your content will live.

Inline & Block Elements

How to become an astronaut

The word "astronaut" comes from the Greek words meaning "space sailor." There are a variety of space professions and duties—from commander, pilot, mission specialist, for example—and varying qualifications for each. However, all qualifications include:

Physical health requirements

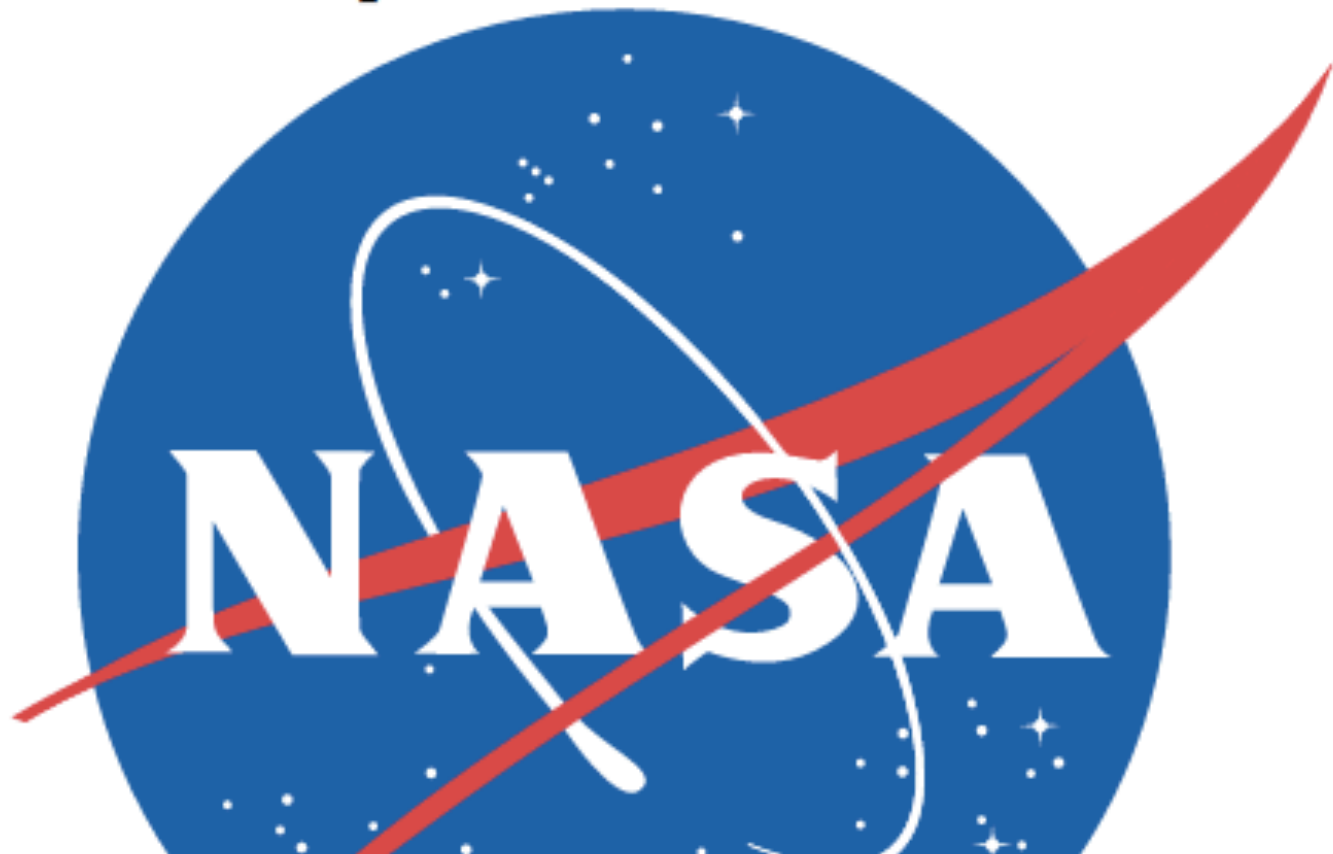
Height requirements

Visual requirements

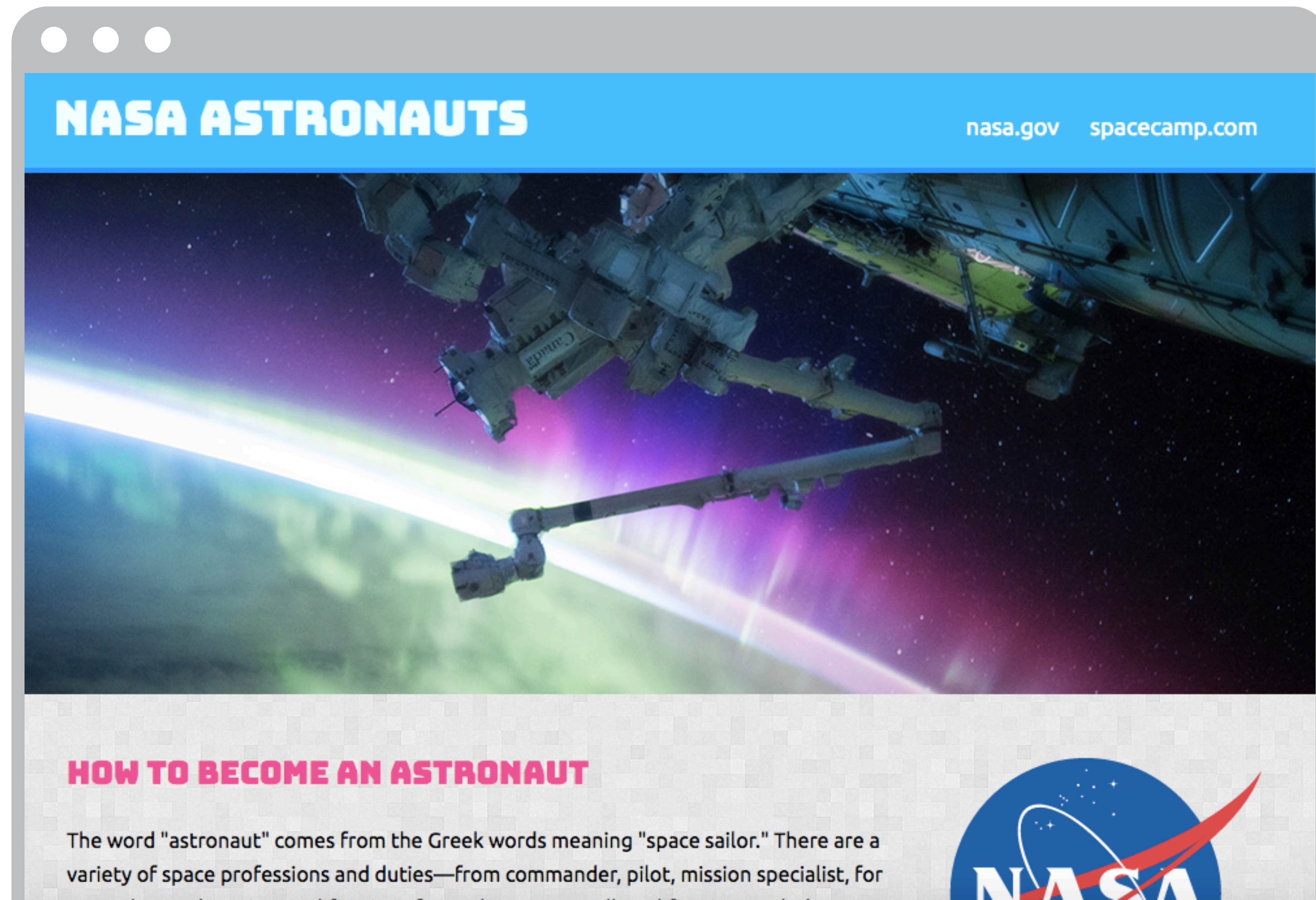
Bachelor's degree from an accredited institution in engineering, biological science, physical science, or mathematics

[Find out more about the requirements for becoming a NASA Astronaut.](#)

"What everyone in the astronaut corps shares in common is not gender or ethnic background, but motivation, perseverance, and desire—the desire to participate in a voyage of discovery." —Ellen Ochoa



Container Elements



Specific Containers

Specific Containers

header

nav

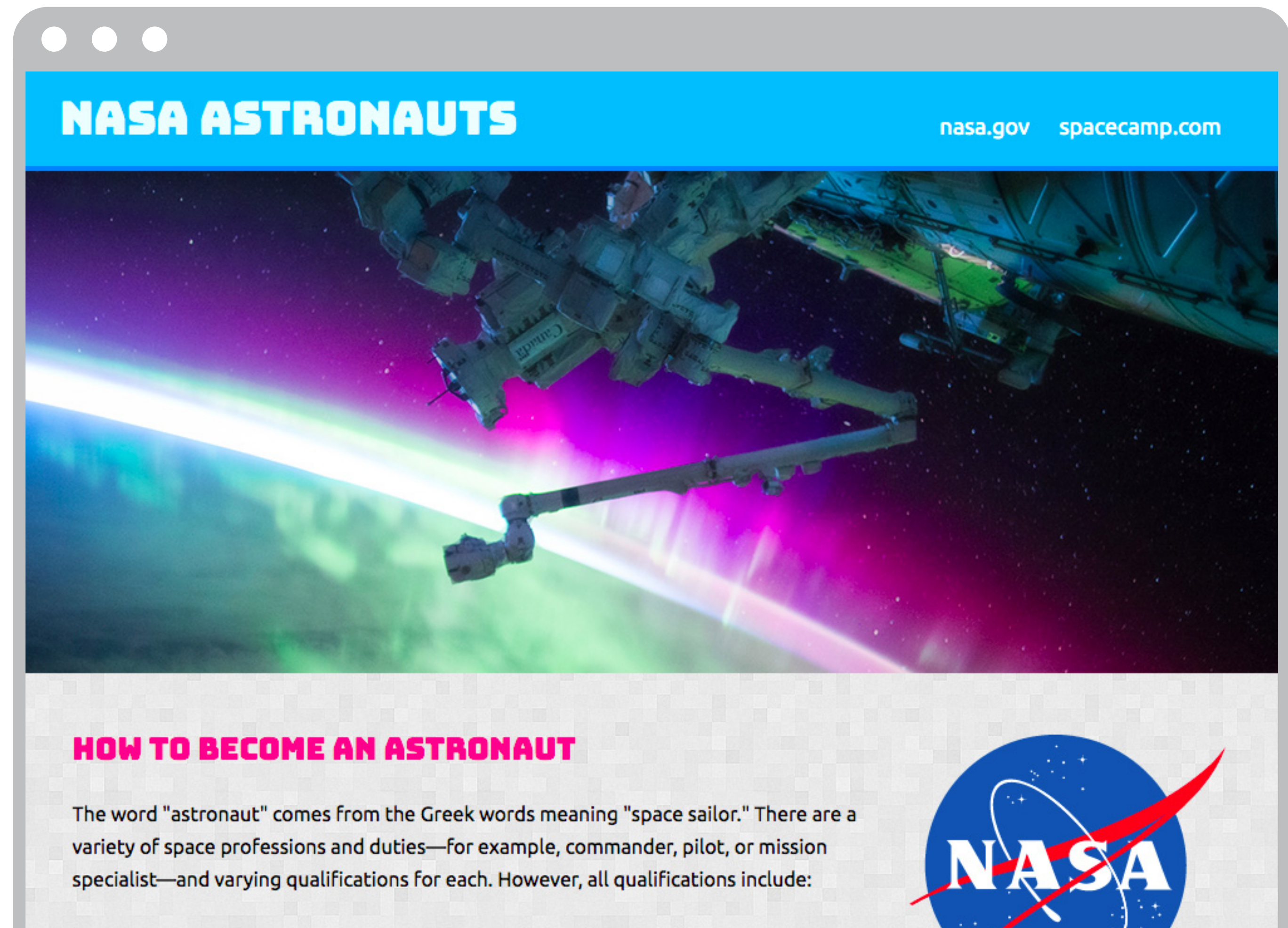
main

section

article

aside

footer



Specific Containers

Specific Containers

header

nav

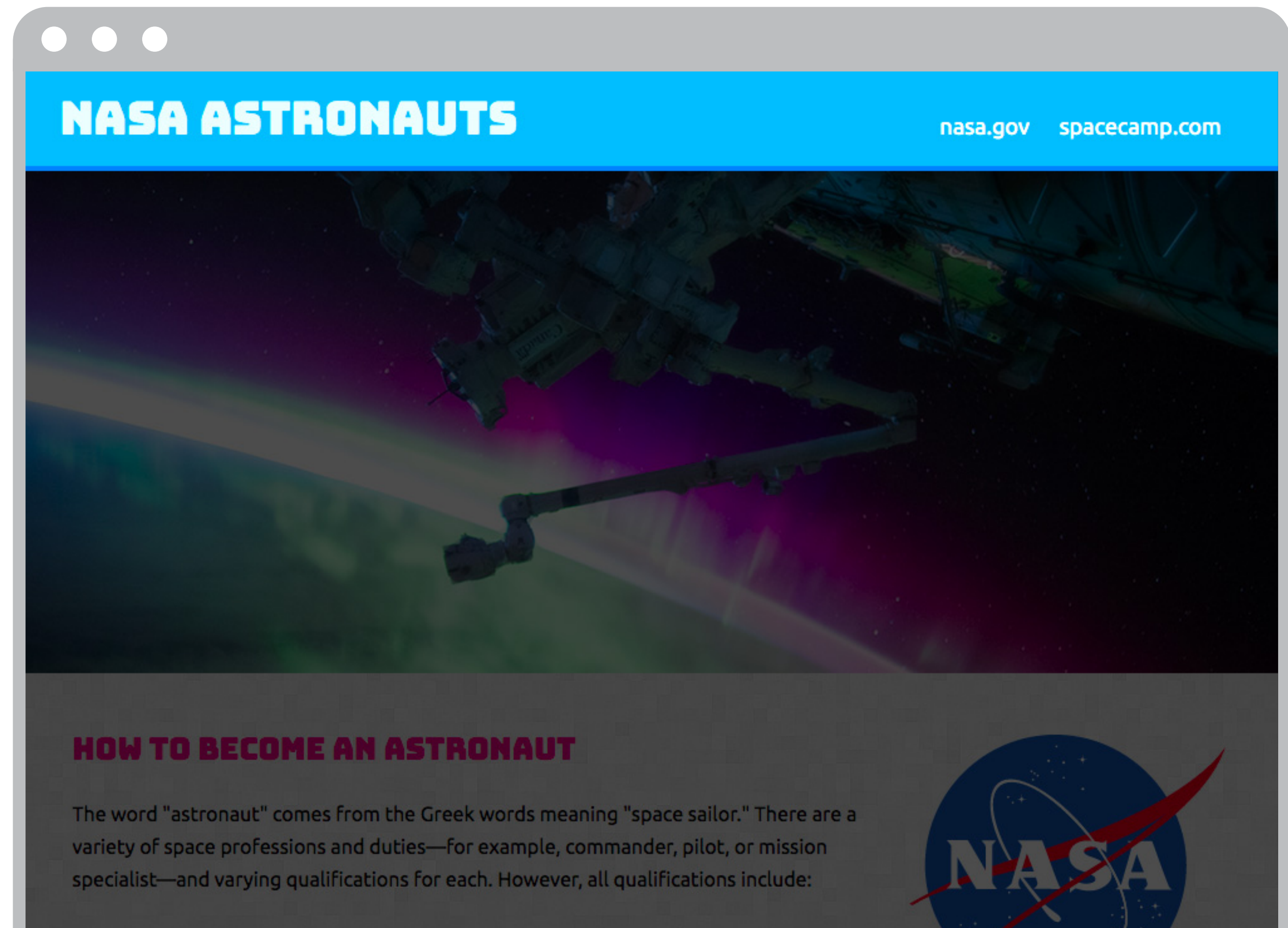
main

section

article

aside

footer



Specific Containers

Specific Containers

header

nav

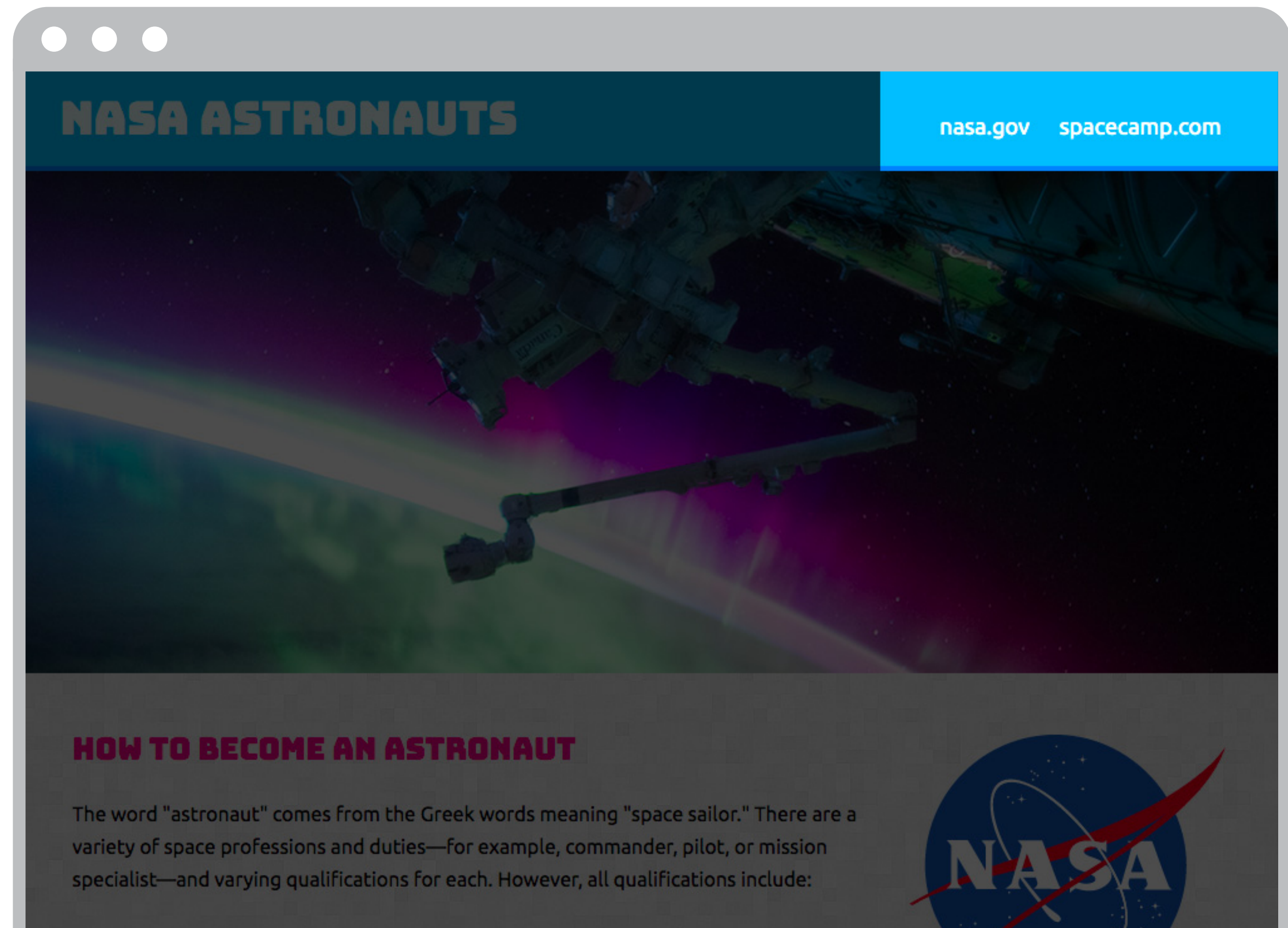
main

section

article

aside

footer



Specific Containers

Specific Containers

header

nav

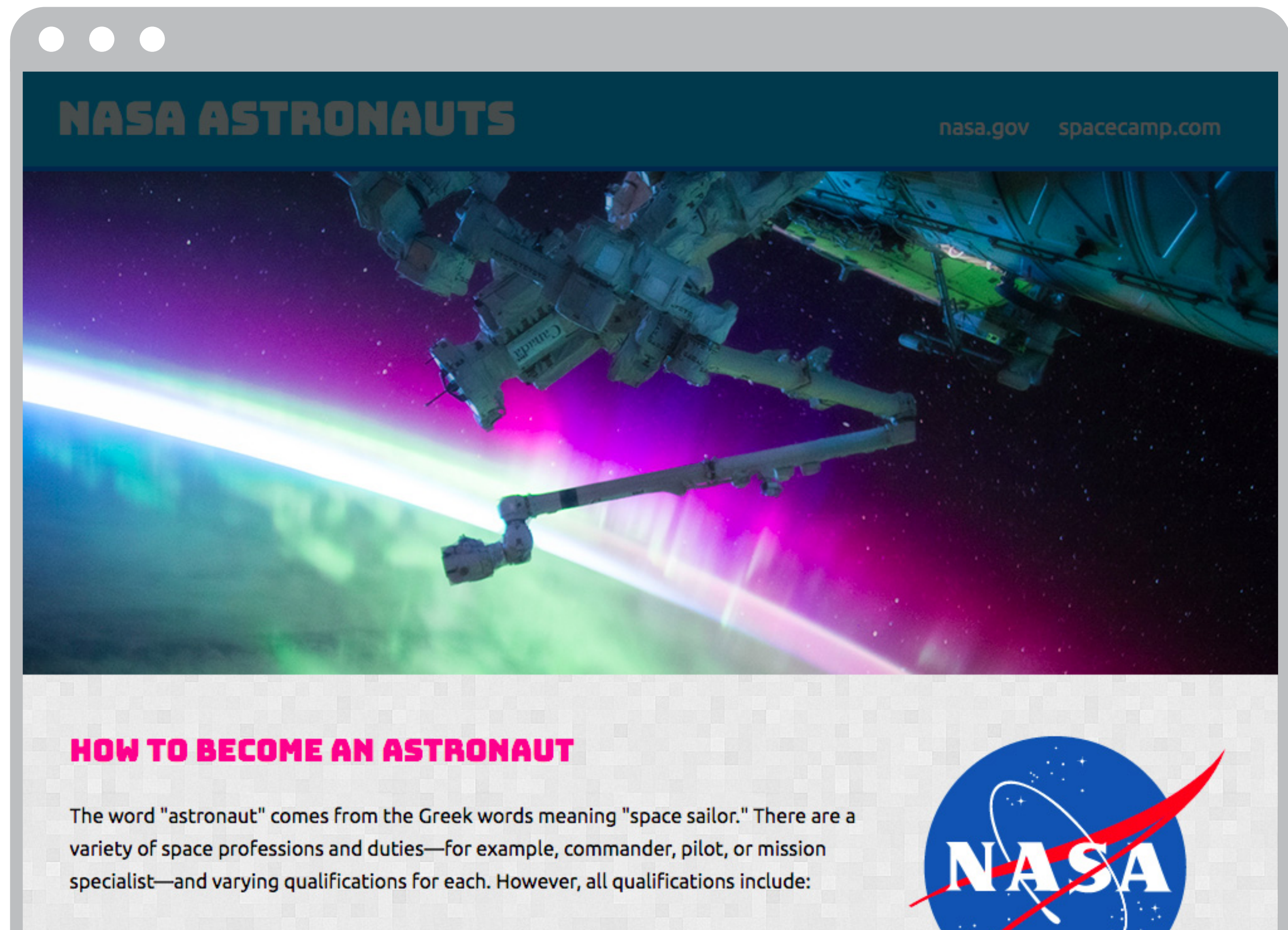
main

section

article

aside

footer



Specific Containers

Specific Containers

header

nav

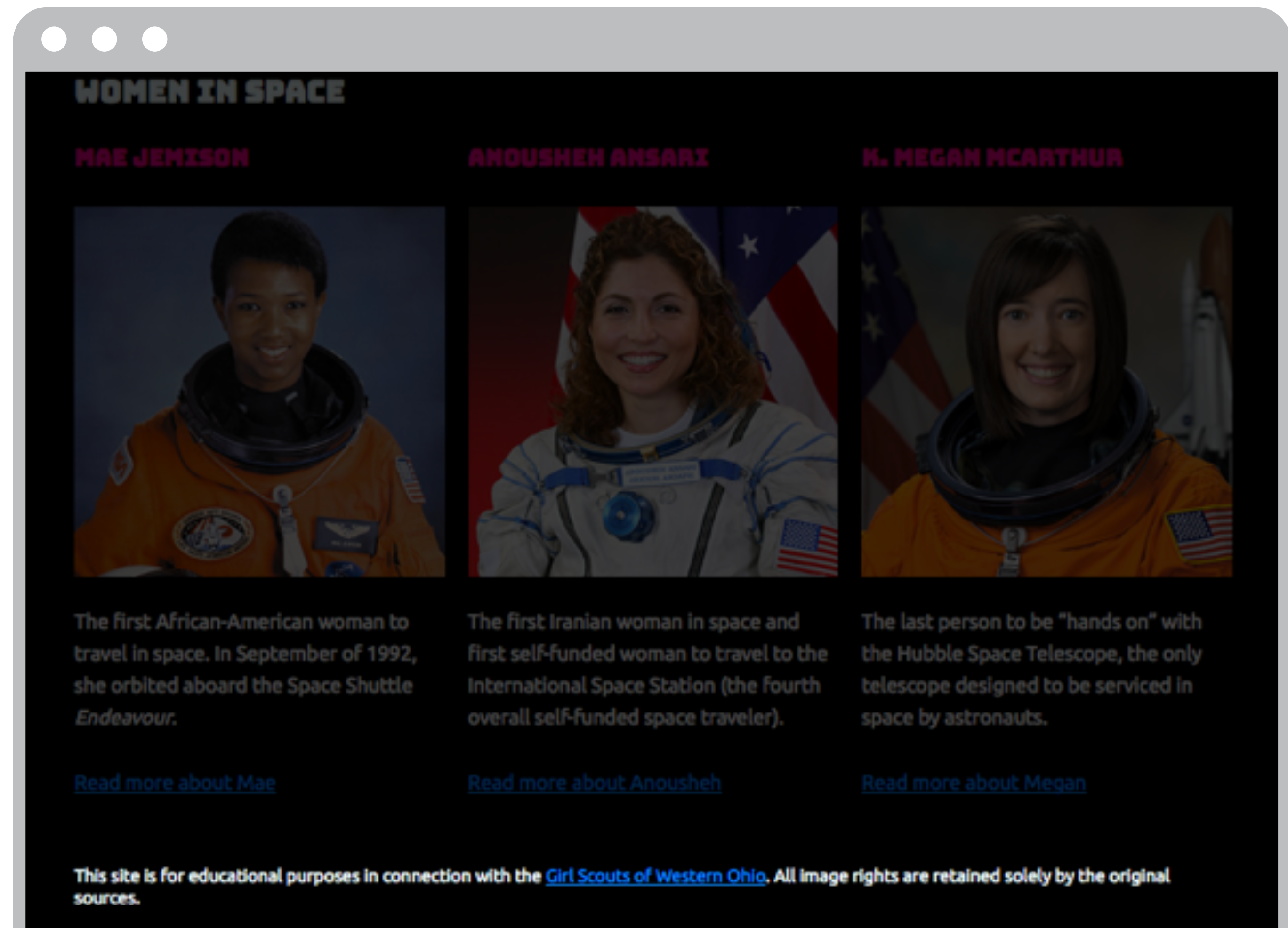
main

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Specific Containers

Specific Containers

header

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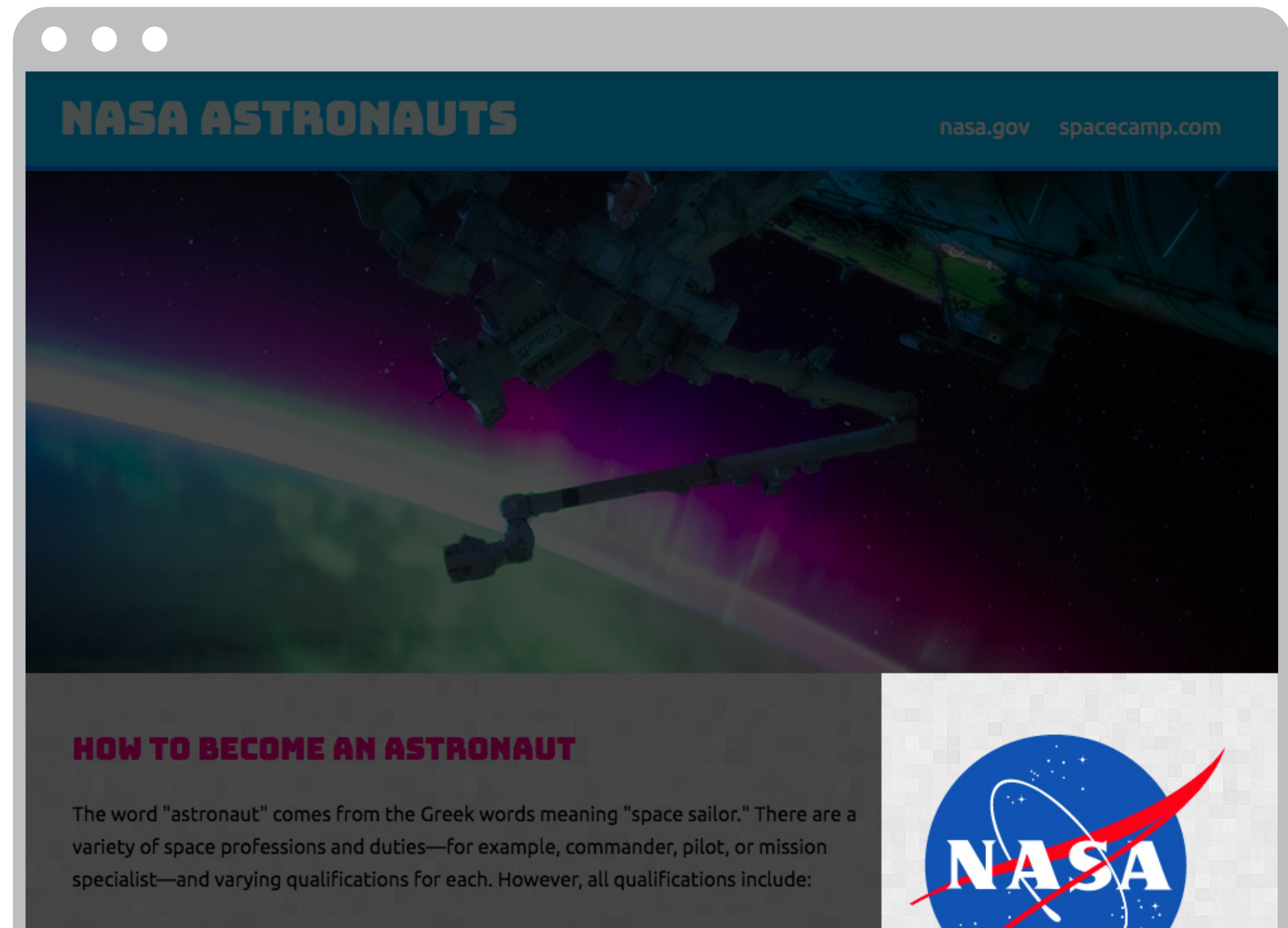
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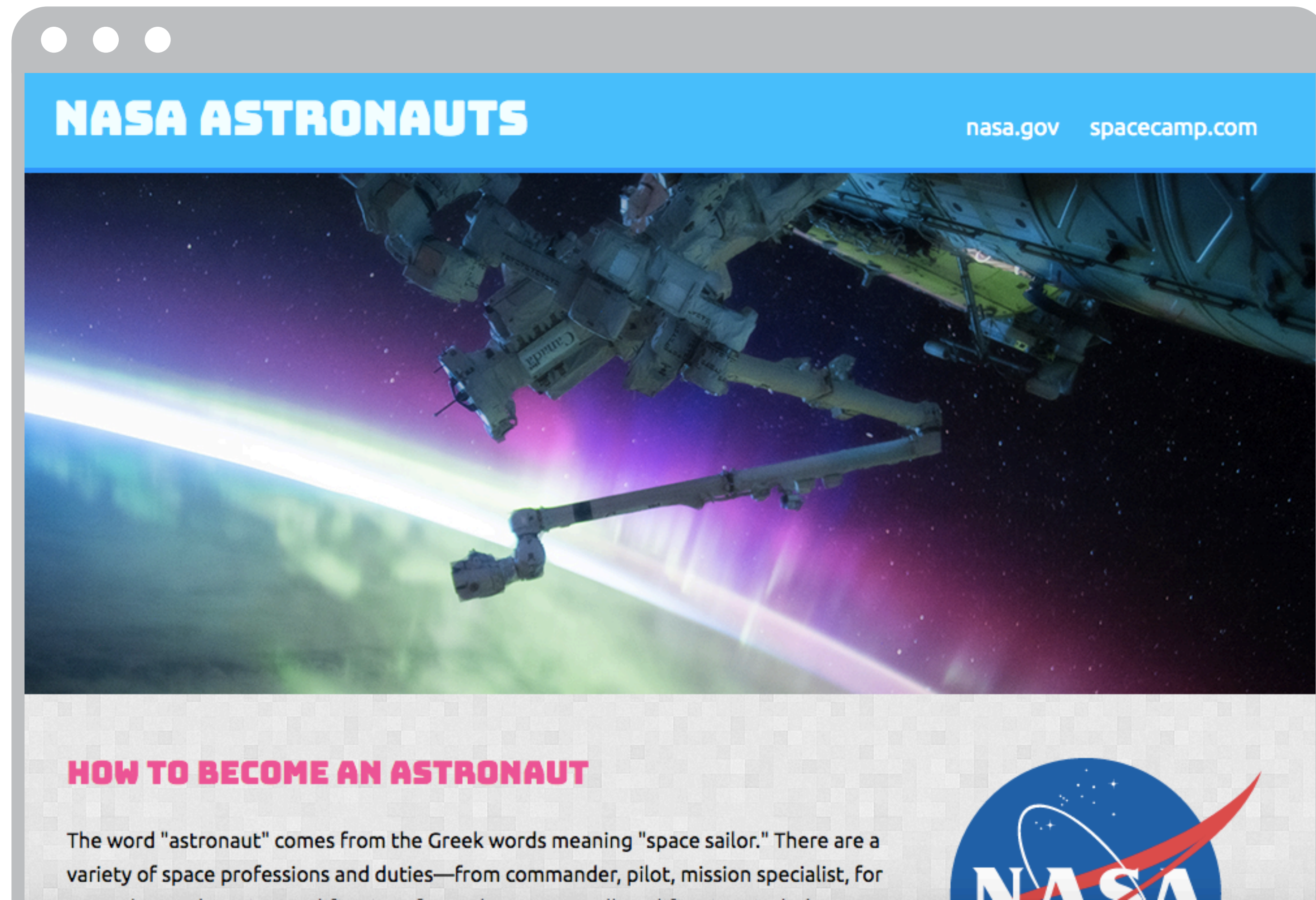
article

aside

footer



Container Elements

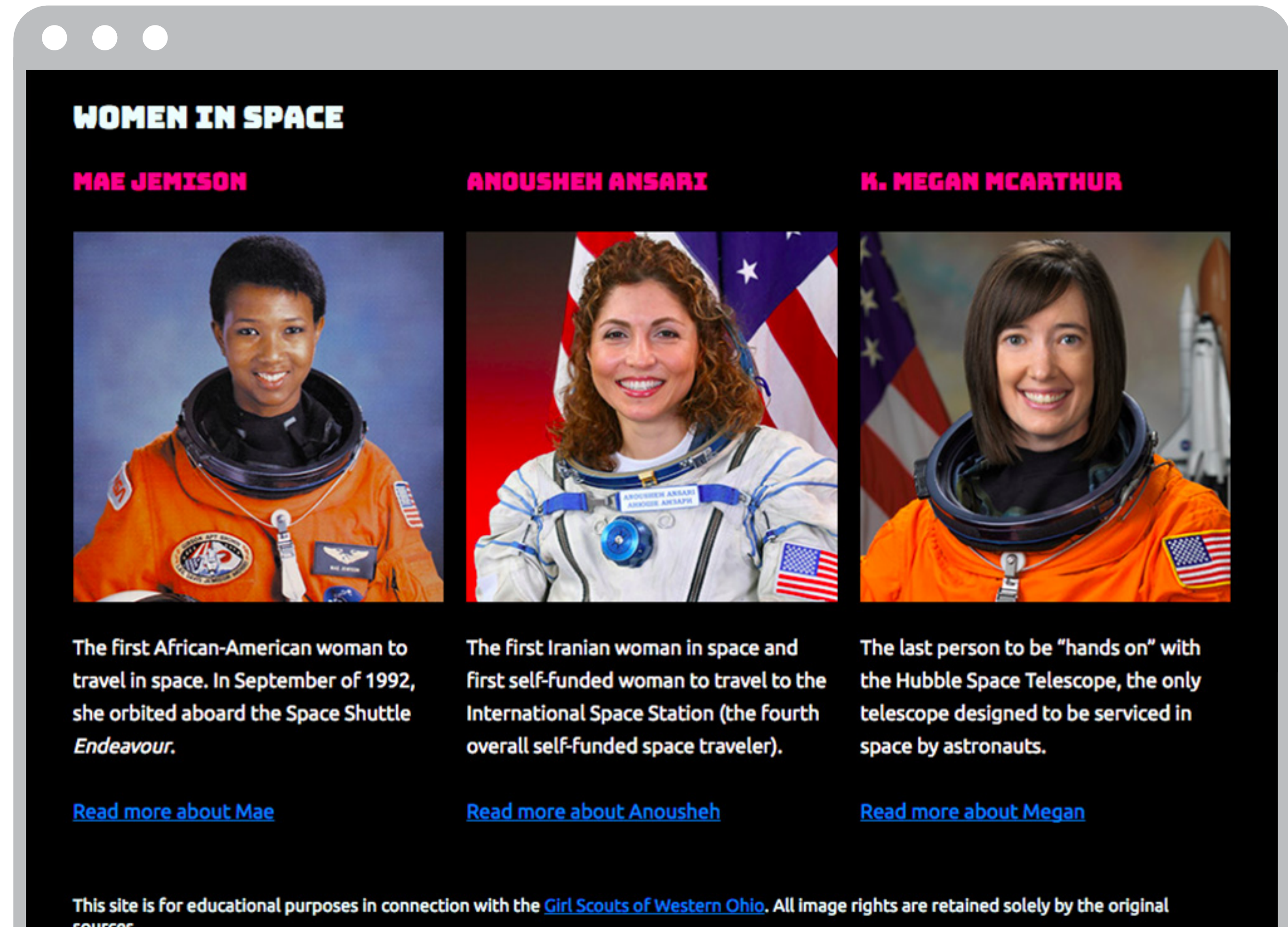


Generic Containers

Generic Containers


div

span



WOMEN IN SPACE


MAE JEMISON



The first African-American woman to travel in space. In September of 1992, she orbited aboard the Space Shuttle *Endeavour*.

[Read more about Mae](#)


ANOUSHEH ANSARI



The first Iranian woman in space and first self-funded woman to travel to the International Space Station (the fourth overall self-funded space traveler).

[Read more about Anousheh](#)

K. MEGAN MCARTHUR



The last person to be "hands on" with the Hubble Space Telescope, the only telescope designed to be serviced in space by astronauts.

[Read more about Megan](#)

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Marking Up Container Elements in the Browser

What is HTML

Hyper Text Markup Language

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professions and duties—from commander, pilot, mission specialist, for example—and varying qualifications for each.
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href="https://www.nasa.gov/audience/forstudents/postsecondary/features/F_Astronaut_Requirements.html">Find out
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```