

TABLE OF CONTENTS

01 Incorporated

Technology

02

Web Development & UX Process

Web Language

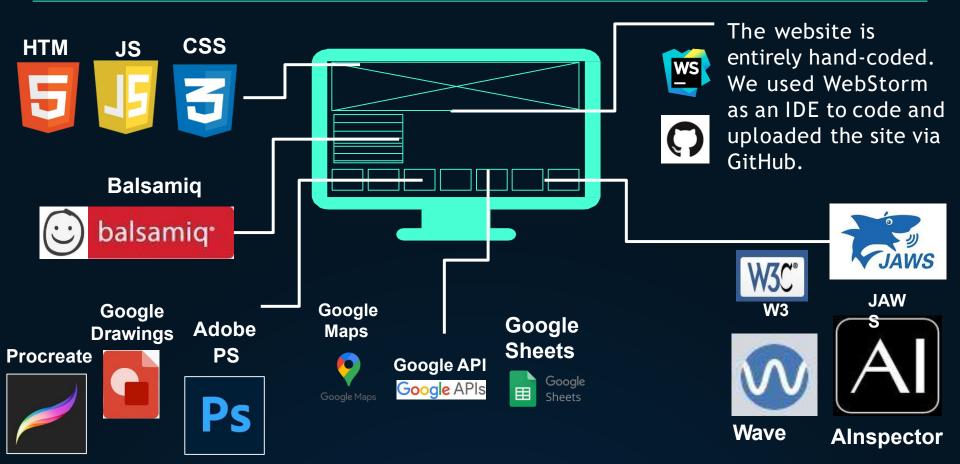
04 Graphics

05 🥏 Features

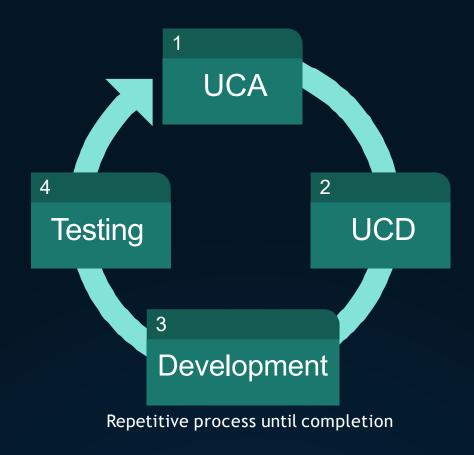
06 Accessibility



Incorporated Technology











→ UCA (User Centric Analysis)

- Goal assist people in planning their trip to Orlando
- List of tasks inform on transportation, local attractions, food, costs, hours, etc.
- ◆ Target User tourists of Orlando
- ◆ Technology decided upon our incorporated technology
- Critical Success Ratio ability to achieve goal through list of tasks

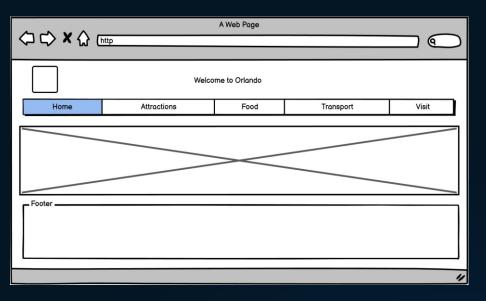




→ UCD (User Centric Design)

- ♦ Branding Guidelines design, aesthetic appeal, & general look-and-feel
- Wireframe Information Architecture organized and navigable
 - Navigation bar
 - Hyperlinks
 - Content design
- Graphics- logo, slideshow, icons, images, etc.
- Feedback/Contact Form





- ◆ Wireframe Layout of the pages
 - Header- logo, title and navigation menu
 - Main content
 - Footer- About Us & Contact Form
- Provides clarity and protects against possible errors in the future by setting a perfect foundation.







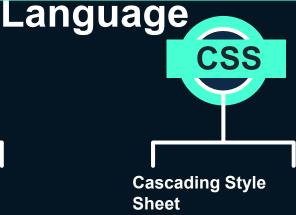
- → Software Development
 - Hand-Code Implement our wireframe
 - HTML pages
 - CSS (style) pages
 - JS pages
 - Responsiveness code (Media Query)
 - Accessibility/ADA level AA Acceptance Compliance
- Testing Testing after every step of development. This process repeats until critical success ratio has comfortably passed.



Development - Web



Structure the website and its content



Stylesheet language to style and describe the presentation of website



Interactive features (slideshow & feedback form)





Google API fonts

→ Google API **fonts** were used throughout

<link href="https://fonts.googleapis.com/css2?family=Rubik&family=Varela&display=swap" rel="stylesheet">

Images

- → Adobe photoshop
 - Jpg is lossy compressed file format
 - Made sure images were loading fast enough upon visit
 - Compromise between image size and quality





Slideshow

- → Enhances user experience by providing visual connection
 - Coded using JavaScript
- → Images are hyperlinked to pages on the website to which they are related
 - images edited using Google Drawings





HAND OPERATED SLIDESHOW



→ Previous slide and Next slide controls

AUTOMATIC SLIDESHOW

→ Images change with 3 second intervals





Dots to indicate active slide:



For loop in JavaScript to change color of dot as slide changes:

```
var dots = document.getElementsByClassName( classNames: "dot");

for (i = 0; i < dots.length; i++) {
    dots[i].className = dots[i].className.replace( searchValue: " active", replaceValue: "");
}
dots[slideIndex-1].className += " active";</pre>
```

Each slide is assigned in HTML:

```
<div style="text-align:center">
    <span class="dot" onclick="currentSlide(1)"></span>
    <span class="dot" onclick="currentSlide(2)"></span>
    <span class="dot" onclick="currentSlide(3)"></span>
    <span class="dot" onclick="currentSlide(4)"></span>
    <span class="dot" onclick="currentSlide(5)"></span>
</div>
```

CSS:

- Active slide's dot is highlighted
- Color of dot changes upon hover
- Fading animation was used

```
.active, .dot:hover {
    background-color: #717171;
}

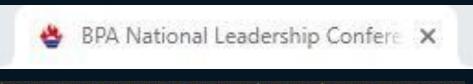
/* Fading animation */
.fade {
    -webkit-animation-name: fade;
    -webkit-animation-duration: 1.5s;
    animation-name: fade;
    animation-duration: 1.5s;
}
```

```
@-webkit-keyframes fade {
    from {opacity: .4}
    to {opacity: 1}
}
@keyframes fade {
    from {opacity: .4}
    to {opacity: 1}
```



Favicon

→ A minimized version of logo shows up as a favicon

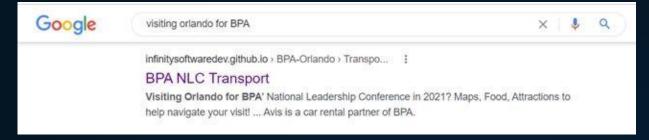


k rel="icon" type="image/png" sizes="16x16" href="images/favicon/favicon-BPA.png">

Search Features (Not updated yet)

- → Tags to help users find our website via search engine
- → Site description to help users know whether our site has what they are looking for

```
<meta name="description" content="Visiting Orlando for BPA' National Leadership Conference in 2021?
Maps, Food, Attractions to help navigate your visit!">
  <meta name="keywords" content="Orlando, Florida, bpa, BPA, food, maps, attractions, visit, NLC, 2021">
```



Infobox





Orlando Balloon Rides

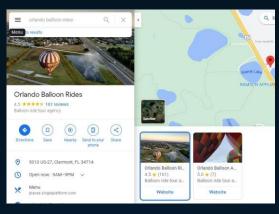
One of the world's largest operators of commercial hot air balloons.

Rating: 4.5/5

Hours Of Operation: AM-9PM Address: 5010 US-27, Clermont

Visit Website

Images & Buttons hyperlink to event's website



→ All clickable items are made orange for consistency

Address hyperlink to google maps

InfoBox





Orlando Balloon Rides

One of the world's largest operators of commercial hot air balloons.

Rating: 4.5/5

Hours Of Operation: 9AM-9PM Address: 5010 US-27, Clermont

Visit Website



Shadow on image over hover

```
D.img:hover, .crop img:hover{
    box-shadow: 0 5px 5px 0 rgba(0,0,0.07), 0 5px 5px 0 rgba(0,0,0.07),
    0 5px 5px 0 rgba(0,0,0.07), 0 5px 5px 0 rgba(0,0,0.07);
}
```

Cursor over image is a pointer

→ to indicate clickable- link behind image

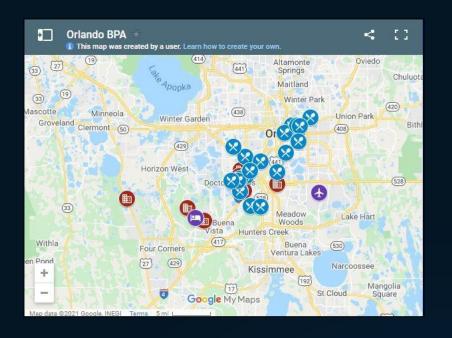
```
cursor: pointer;
```



Visit button enlarges upon hover/click

```
5.button-visit:hover {
    transform: scale(1.1);
    color: black;
}
```







- → Map is embedded in the site so that the user may explore the map within the page itself
- → All locations throughout our site that will assist users to plan their visit are marked
 - descriptions and markers are different colors to indicate different facilities
 - map can be saved to Google Drive



Link - unvisited/visited/hover

→ Links change color depending on their visit/hover status.

www.delta.com

www.delta.com

www.delta.com

```
/* unvisited link */
.footergrid-item a:link, .mapspage a:link {
    color: rgb(255, 77, 77);
  visited link */
.footergrid-item a:visited{
    color: white;
.mapspage a:visited{
    color: rgb(0, 0, 102);
  mouse over link */
.footergrid-item a:hover, .mapspage a:hover {
    color: rgb(36, 143, 36);
```



Navigation Menu

- → Color of menu changes upon hovering
- → Active page is highlighted to help users know which page they are on

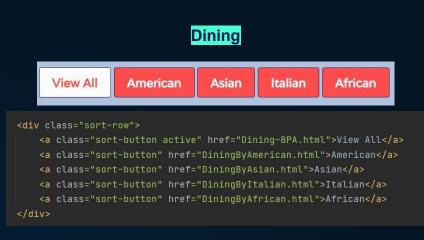
```
.button:hover, .button.active {
   background-color: rgb(255, 77, 77);
   color: #fbfbfb;
]
```



Sort-By

- → This feature was created to help users find content that matches their best interests.
 - Re-orders and filters content based on the input of the user.
- Color of button changes upon hovering and active page is highlighted
- → Present on Dining and Attractions page
- Created linking HTML pages





Visit page Navigation (Images not updated with newer info yet)

- Buttons on top the visit page help users locate the information they need to plan their visit
- → Buttons were linked to the ID tags that were created for each section

```
<a class="sort-button" href="#srg">Security restrictions/guidelines</a>
<a class="sort-button" href="#dc">Dress Code</a>
<a class="sort-button" href="#map">Map</a>
<a class="sort-button" href="#hr">Housing</a>
<a class="sort-button" href="#trv">Traveling</a></a>
```

<div id="srg">
 <h2>Security restrictions/guidelines</h2>

```
<div id="dc">
     <h2>Dress Code</h2>
<div id="hr">
     <h2>Housing</h2>
```







Scroll to top button

- → This feature was created to help users scroll back to the top
- → This was coded using JavaScript
- → Appears only once the user scrolls down



```
//Get the button:
mybutton = document.getElementById( elementId: "top-button");

// When the user scrolls down 20px from the top of the document, show the button window.onscroll = function() {scrollFunction()};

3function scrollFunction() {
        if (document.body.scrollTop > 20 || document.documentElement.scrollTop > 20) {
            mybutton.style.display = "block";
        } else {
                mybutton.style.display = "none";
        }
      }

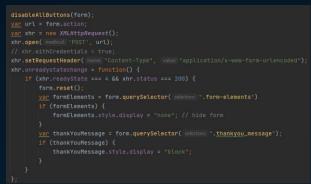
// When the user clicks on the button, scroll to the top of the document function topFunction() {
            document.body.scrollTop = 0; // For Safari document.documentElement.scrollTop = 0; // For Chrome, Firefox, IE and Opera
}
```

Contact form

- Contact form takes in input
 - Name
 - Email address(required field)
 - The message
- → "Thank you" message after form submission
 - coded using JavaScript
- Honeypot is a computer security mechanism to detect and deflect spam
 - It is a hidden text field which must be empty to submit the form
 - spambot fills in this field which is hidden

to human-users

```
.honeypot-field {
    display: none;
}
```





User enters form details

Contact Us	
*=Mandatory	
We would love to hear from you, please send us a message!	
Please Provide Your Information	
Name:	
Anvita Gollu	
Your Email Address :	
anvig@gmail.com	
Message:	
This is my message!	
	✓ Send



Contact Us

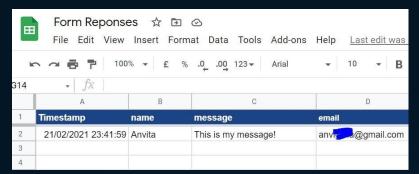
Thanks for contacting us! We will get back to you soon!



Contact form- Server Side

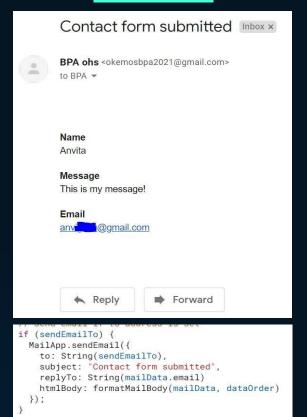
→ The inputs are stored in a google sheet and an email is sent to us from the script editor of the sheet upon every form submission

Inputs stored in google sheet to be accessed





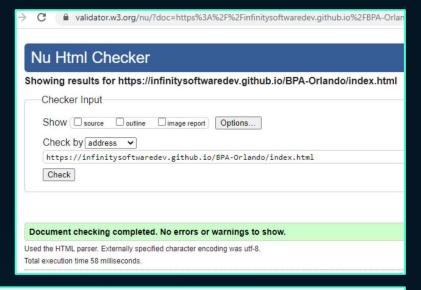
Email confirmation



TESTING WEB DEVELOPMENT CODE

- → W3 Validation Service

 (https://validator.w3.org/#validate_bv_uri+with_options)
 - HTML5 no errors & warnings
 - CSS level 3 + SVG no errors





ADA

- → The Americans with Disabilities Act (ADA) requires accommodations for people with disabilities.
- → Web content should be accessible to blind users, deaf users or any others who must navigate by voice, screen readers or other assistive technologies.
- During every step of the web development process, we made sure to make decisions that wouldn't interfere with assistive technologies interpreting the website in order to make our website accessible to all users.
- We tested our website to make sure it passes the latest Web Content Accessibility Guidelines (WCAG) 2.1 Standard





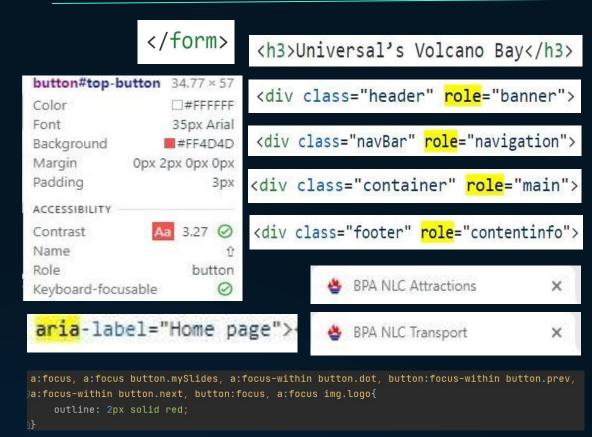




Accessibility + ADA Features

- → Functionality through the use of the keyboard alone
- → Alt text & descriptions for all images & icons
- → Satisfactory Color contrast
- → Consistent Navigation elements throughout the site
- → "tab" focus on every clickable item
- → Roles assigned
- → Aria label
- → Semantic HTML coding
- → Responsive Code (Media Query)
- → Properly placed headings & landmarks
- → Unique page titles

Accessibility 🗳



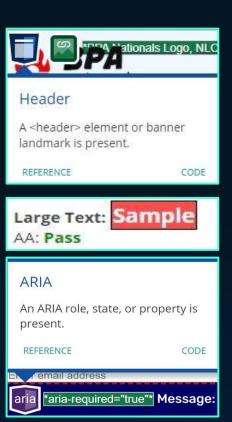
Accessibility + ADA Features

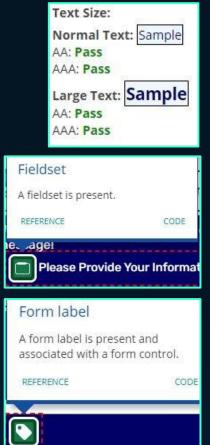
Accessibility

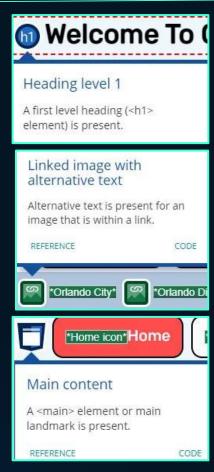


→ Web accessibility test tools











Level AA

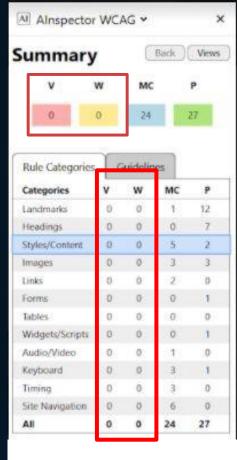
- → No ADA warnings/errors
- → Level A & AA passing
 - Reference- https://www.w3.org/WAI/WCAG21/quickref/
 - ◆ Adaptability
 - Distinguishability
 - ♦ Navigability
 - Readability
 - Predictability
 - ◆ Compatibility

Tested accessibility through web assistive tools: Ainspector, Wave & JAWS









Ruleset: HTML5 and ARIA Techniques

Location: https://infinitysoftwaredev.github.io/BPA-Orland...

Preferences

Rerun Evaluation

Responsiveness- Navigation

Hamburger Menu

- Media Query
 - Icons disappear
 - Infoboxes, header change in size
 - Body and Footer adjust

```
@media (max-width: 1000px) {
    .topnay a img {
        display:none;
}

.topnay {
        display: flex;
}

.navbutton {
        width:18% !important;
}

h1{
        font-size:35px;
        text-align:right !important;
        margin:21px 10px 10px 0;
        font-weight:bold;
}

.w3-display-left, .w3-display-right{
        top:38%;
}
```

```
| Image: Im
```

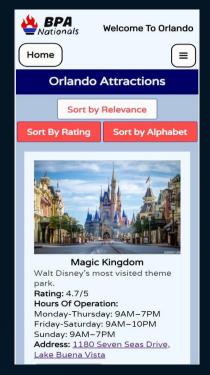
```
j@media (max-width: 600px) {
    h1{
        font-size:20px;
        text-align:right !important;
        margin:32px 10px 10px 0;
        font-weight:bold;
}
```

BPA Nationals	Welcome To Orlando
Home	≡
Attractions	
Dining	
Transport	
Visit	

Responsiveness

→ Website is accessible through all screen sizes









Cross-Browser Compatibility

→ Website is accessible through all browsers and all operating systems







