Visoka škola strukovnih studija za informacione tehnologije

Star Wars

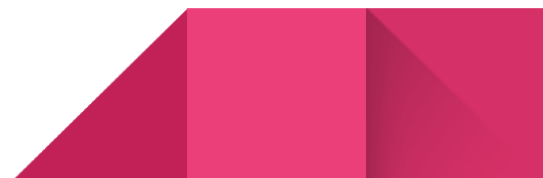https://starwars-fanpage.herokuapp.com/

Smer: Internet Tehnologije

Modul: Web programiranje

Predmet: Web programiranje

Olja Ivković 36/16

Sadržaj

Uvod

1.1. Korišćeni programski jezici

Za izradu sajta korišćeni su sledeći programski jezici i tehnologije:

- HTML 5
- CSS 3
- JavaScript
- jQuery
- JSON
- Ajax
- XAMPP
- Heroku
- Git
- Atom

*Zbog Heroku web host-a sve stranice umesto .html ekstenzije imaju ekstenziju .php.

1.2. Opis funkcionalnosti

Sajt sadrži sledeće funkcionalnosti:

- **Modal forma** napisana u JavaScript-u
- **Provera podataka** koja se vrši regularnim izrazima
- **Dinamično učitavanje** pomaže da postoji samo jedan html template za sve vesti
- **Galerija** koja se nalazi na adekvatnoj stranici
- **Responzivan slajder** koji realizuje prikaz glumaca na početnoj strani
- **JSON** za gotovo sve podatke koji postoje na sajtu
- **Sendvič** dugme za pojavljivanje navigacije

1.3. Templates

```html
<header>
        <button class="fas fa-bars" id="sandwich"></button>
        <nav class="gl-meni">
                <ul>
                        <li><a href="/">Home</a></li>
                        <li><a href="#">Movies</a></li>
                        <li><a href="/gallery.php">Gallery</a></li>
                        <li><a href="/news.php">News</a></li>
                        <li><a href="#">Author</a></li>
                        <li><a href="#">Documentation</a></li>
                        <li><button class="log-reg">sign in / up</button></li>
                </ul>
        <button class="far fa-times-circle" id="x"></button>
        </nav>
        <section class="stars">
        <div class="logo">
                <img alt="logo" src="images/logo.png"/>
                <h1>long time ago, in a galaxy far, far away...</h1>
        </div>
        </section>
</header>
```
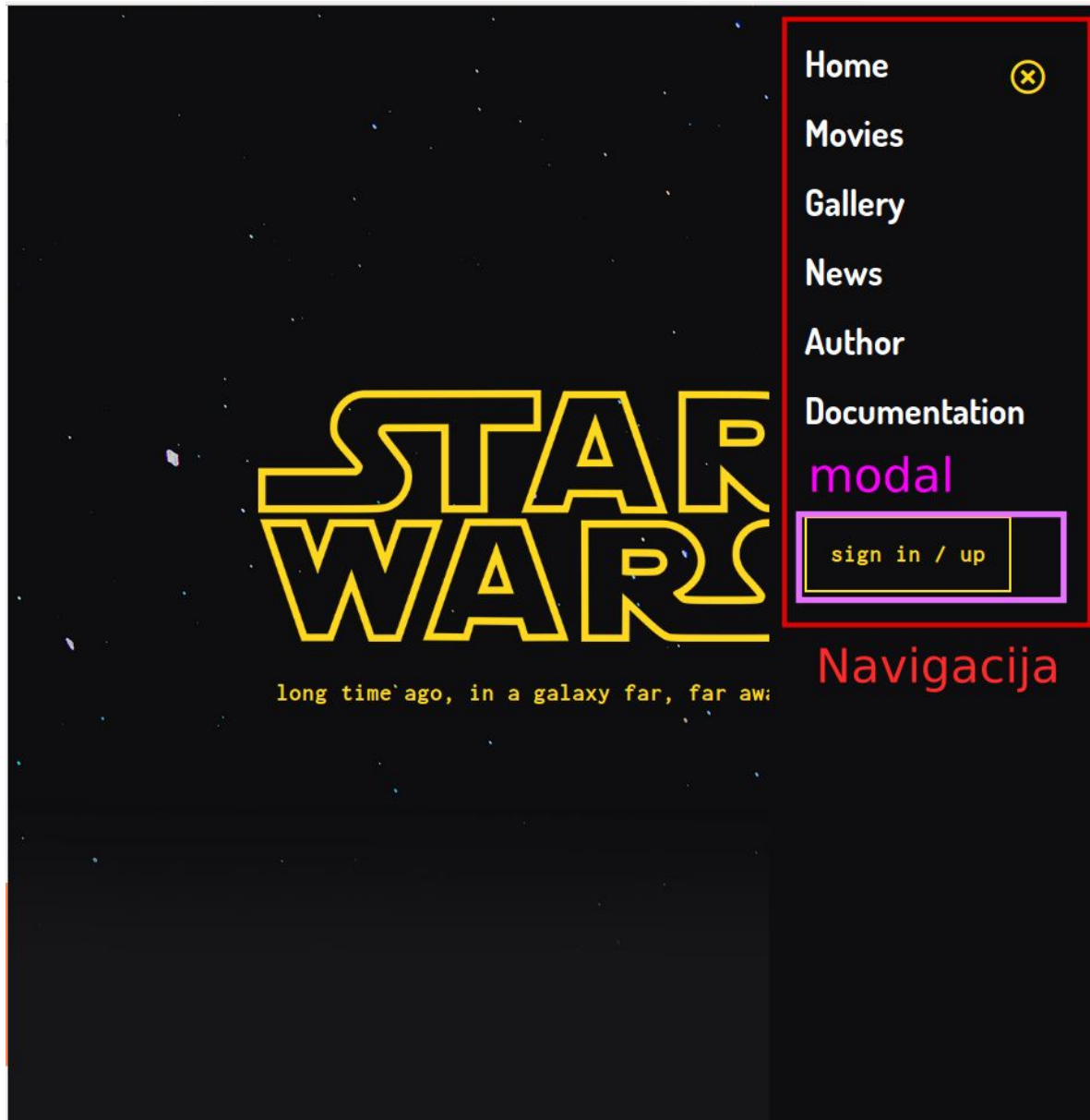
1.4. Korišćeni CSS

ligthbox.css:

```css
html.lb-disable-scrolling {
  overflow: hidden;
  /* Position fixed required for iOS. Just putting overflow: hidden; on the body is not enough. */
  position: fixed;
  height: 100vh;
  width: 100vw;
}

.lightboxOverlay {
  position: absolute;
  top: 0;
  left: 0;
  z-index: 9999;
  background-color: black;
  filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=80);
  opacity: 0.8;
  display: none;
}
```

```css
.lightbox {
  position: absolute;
  left: 0;
  width: 100%;
  z-index: 10000;
  text-align: center;
  line-height: 0;
  font-weight: normal;
}

.lightbox .lb-image {
  display: block;
  height: auto;
  max-width: inherit;
  max-height: none;
  border-radius: 3px;

  /* Image border */
  border: 4px solid white;
}

.lightbox a img {
  border: none;}
```

```css
.lb-outerContainer {
  position: relative;
  *zoom: 1;
  width: 250px;
  height: 250px;
  margin: 0 auto;
  border-radius: 4px;

  /* Background color behind image.
     This is visible during transitions. */
  background-color: white;
}

.lb-outerContainer:after {
  content: "";
  display: table;
  clear: both;
}

.lb-loader {
  position: absolute;
  top: 43%;
  left: 0;
```

```css
    height: 25%;

    width: 100%;

    text-align: center;

    line-height: 0;

}


.lb-cancel {

    display: block;

    width: 32px;

    height: 32px;

    margin: 0 auto;

    background: url(../images/loading.gif) no-repeat;

}


.lb-nav {

    position: absolute;

    top: 0;

    left: 0;

    height: 100%;

    width: 100%;

    z-index: 10;

}
```

```css
.lb-container > .nav {
  left: 0;
}


.lb-nav a {
  outline: none;
  background-image:
url('data:image/gif;base64,R0lGODlhAQABAPAAAP///wAAACH5BAEAAAAALAAAAAABAAEAAA
ICRAEAOw==');
}


.lb-prev, .lb-next {
  height: 100%;
  cursor: pointer;
  display: block;
}


.lb-nav a.lb-prev {
  width: 34%;
  left: 0;
  float: left;
  background: url(../images/prev.png) left 48% no-repeat;
  filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=0);
```

```css
  opacity: 0;

  -webkit-transition: opacity 0.6s;

  -moz-transition: opacity 0.6s;

  -o-transition: opacity 0.6s;

  transition: opacity 0.6s;

}


.lb-nav a.lb-prev:hover {

  filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=100);

  opacity: 1;

}


.lb-nav a.lb-next {

  width: 64%;

  right: 0;

  float: right;

  background: url(../images/next.png) right 48% no-repeat;

  filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=0);

  opacity: 0;

  -webkit-transition: opacity 0.6s;

  -moz-transition: opacity 0.6s;

  -o-transition: opacity 0.6s;

  transition: opacity 0.6s;}
```

```css
.lb-nav a.lb-next:hover {

  filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=100);

  opacity: 1;

}


.lb-dataContainer {

  margin: 0 auto;

  padding-top: 5px;

  *zoom: 1;

  width: 100%;

  border-bottom-left-radius: 4px;

  border-bottom-right-radius: 4px;

}


.lb-dataContainer:after {

  content: "";

  display: table;

  clear: both;

}


.lb-data {

  padding: 0 4px;

  color: #ccc;}
```

```css
.lb-data .lb-details {
  width: 85%;
  float: left;
  text-align: left;
  line-height: 1.1em;
}


.lb-data .lb-caption {
  font-size: 13px;
  font-weight: bold;
  line-height: 1em;
}


.lb-data .lb-caption a {
  color: #4ae;
}


.lb-data .lb-number {
  display: block;
  clear: left;
  padding-bottom: 1em;
  font-size: 12px;
```

```css
  color: #999999;
}

.lb-data .lb-close {
 display: block;
 float: right;
 width: 30px;
 height: 30px;
 background: url(../images/close.png) top right no-repeat;
 text-align: right;
 outline: none;
 filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=70);
 opacity: 0.7;
 -webkit-transition: opacity 0.2s;
 -moz-transition: opacity 0.2s;
 -o-transition: opacity 0.2s;
 transition: opacity 0.2s;
}

.lb-data .lb-close:hover {
 cursor: pointer;
 filter: progid:DXImageTransform.Microsoft.Alpha(Opacity=100);
 opacity: 1;}
```

Organizacija

2.1. Organizaciona šema

2.2. Sitemap

<?xml version="1.0" encoding="UTF-8"?>

<urlset xmlns="https://starwars-fanpage.herokuapp.com/">

    <url>

        <loc>https://starwars-fanpage.herokuapp.com/index.php</loc>

        <lastmod>2018-03-13</lastmod>

        <changefreq>weekly</changefreq>

        <priority>1</priority>

    </url>

    <url>

        <loc>https://starwars-fanpage.herokuapp.com/gallery.php</loc>

        <lastmod>2018-03-12</lastmod>

        <changefreq>monthly</changefreq>

        <priority>0.9</priority>

    </url>

    <url>

        <loc>https://starwars-fanpage.herokuapp.com/news.php</loc>

        <lastmod>2018-03-12</lastmod>

```xml
        <changefreq>daily</changefreq>

        <priority>0.9</priority>

    </url>

    <url>

        <loc>https://starwars-fanpage.herokuapp.com/author.php</loc>

        <lastmod>2018-03-12</lastmod>

        <changefreq>yearly</changefreq>

        <priority>0.7</priority>

    </url>

    <url>

        <loc>https://starwars-fanpage.herokuapp.com/starwars.pdf</loc>

        <lastmod>2018-03-12</lastmod>

        <changefreq>yearly</changefreq>

        <priority>0.6</priority>

    </url>

</urlset>
```

2.3. Opis stranica sajta
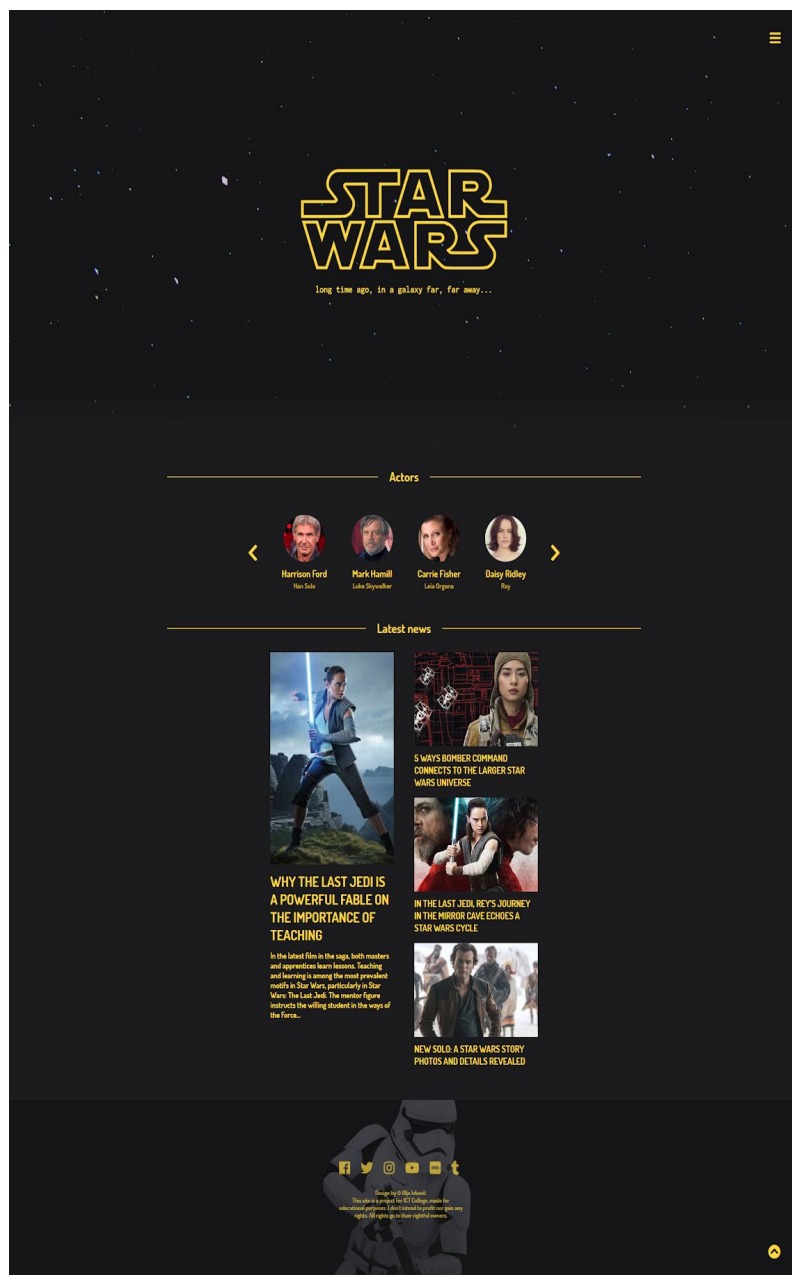
Index.php

Početna stranica je podeljena u dva segmenta. Na vrhu stranice u desnom uglu se nalazi dugme koje otvara navigacioni meni koji vodi ka ostalim stranicama sajta. Na dnu sajta se nalazi footer sa eksternim linkovima koji vode ka Star Wars profilima na društvenim mrežama.Tokom skroll-ovanja pojavljuje se strelica koja vraća na vrh stranice sajta.

- Prvi segment je slajder sa slikama glumaca koji je responzivan i koji reaguje na promenu rezolucije. Za fullscreen prikazuje četiri slike, za tablet tri, a za mobilni telefon po jednu. Slike se menjaju strelicama sa leve i desne strane.
- Drugi segment su vesti koje se menjaju na svakih 5 sekundi. Klikom na određenu vest učitava se nova stranica na kojoj se nalazi opširniji sadržaj te vesti.
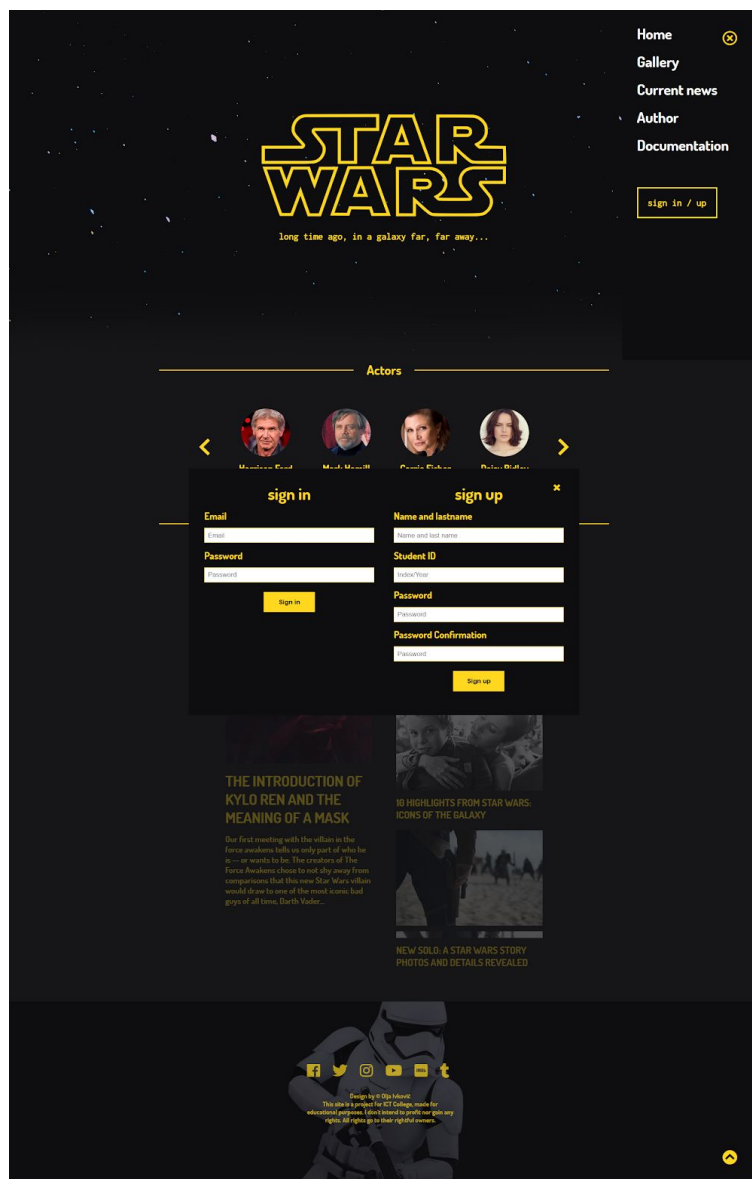
Registracija

Na dnu navigacionog menija nalazi se dugme za registraciju. Klikom na dugme otvara se forma za Sign Up/In korisnika. Na X u gornjem desnom uglu prozora forma se zatvara. Prikaz forme je rađen pomoću JavaScript-a.

● Nakon unosa podataka, pomoću regularnih izraza, vrši se provera:

- za email proverava da li je domen sa ICT-a (@ict.edu.rs) i da li je u formatu "ime.prezime.broj.godina@ict.edu.rs" (za profesore broj i godina ne treba da se unose);- za password (Sign In) proverava da li ima min 8 karaktera, barem jedno malo, barem jedno veliko slovo i barem jedan karakter;

- za name & last name da li je pocetno slovo veliko, 3 minimum a 16 maksimum karaktera po reči, dozvoljeno više imena i prezimena;

- za student ID da li je format "index / godina" (dozvoljeni i indexi za master studije (do 2000/17));

- za password (Sign Up) da li se password i confirm password poklapaju, i tek kad se poklope onda znači da je dobro uneto i to se ispisuje ispod Sign In forme.

5 THINGS WE LEARNED FROM THE FORCE OF SOUND

It's sound that gives each digital character weight and personality, making everything from the tiniest gestures to the big climactic moments feel authentic. Behind the scenes, there's a team of audio experts at work to find the perfect noise to evoke emotion or heighten drama through an extensively layered mix or, sometimes, the complete absence of sound.Here are five fascinating things we learned from "The Force of Sound: Creating sounds in galaxy far, far away"

1. In the recording booth, BB-8 doesn't look at all like you might think.

To create the illusion that the spherical astromech is rolling through each scene, the sound effects team in the studio rolls a granite orb on a special box. It's just one example in a vast arsenal of strange props and tools that help audio engineers and sound designers capture the magic of a galaxy far, far away. "It's like an old radio play," says Matthew Wood, supervising sound editor.

2. The porg sound was one of the first elements tackled for the film.

Ahch-To's resident space puffins provided one of the first challenges for sound designer Ren Klyce and his team."Birdlike. Kind of annoying but not too annoying." Real bird sounds, sped up and played at a higher pitch, and one intern's turkey call helped to create the perfect trilling squawk to complement the wide-eyed creatures and their innocent on-screen demeanor.

4. Sometimes it's the absence of sound that makes the moment come alive...

There's a moment just after the Holdo maneuver where the sound vanishes, replaced by utter silence. "The film's so bombastic with noise that at the largest moment when Snoke's ship is being destroyed by Holdo doing her kamikaze/seppuku run into it...to have then an explosion there just would have been fine," says Klyce. "The idea to have nothing there was more interesting and to kind of make everybody wait for it."

5. ...or hints at a deeper connection to the Force.

Sound designers went through trial and error to help Johnson convey his vision for the most vulnerable moments of Force connection between Kylo Ren and Rey. "(Sound) can expand something to make it feel bigger than it is, it can make you feel small and intimate if you've pared everything away and taken out sound and left a little vacuum," says Wood. And when they approached the final battle between Luke Skywalker and his nephew, audio and visual clues hinted that the Jedi Master wasn't physically on Crait long before the big reveal. Listen closely and you can hear debris sizzling on Kylo's saber. When the camera pans to Luke, there's nothing, not even the sound of his footfalls. "We tried to juxtapose that so you're getting clues," Wood says.
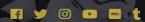
MARK HAMILL HONORED WITH STAR ON HOLLYWOOD WALK OF FAME

Mark Hamill, the legendary actor who portrayed Luke Skywalker in the Star Wars saga — and whose incredible body of work spans movies, TV, theatre, video games, and voice-over — received his star on the Hollywood Walk of Fame today, which has been dubbed #JediDay. The accolade was dedicated in a ceremony at the El Capitan Theatre in Los Angeles, featuring Star Wars creator George Lucas and fellow Star Wars icon Harrison Ford, who delivered fun and touching tributes to their friend and collaborator.

"I'm very proud of Mark for getting this star," Lucas said. "You've come a long way from that [Star Wars] casting session…to getting your star on Hollywood Boulevard. In preparing for the event, Ford went back and watched their original screen test. "He had just the right blend of youthfulness and enthusiasm," he said. Continuing, Ford expressed his joy for Hamill. "He is, as he always was, a quiet, sincere, honest person… I'm happy for ya, pal."

Finally, Hamill addressed the many fans in attendance. "Words truly fail me. It's hard to convey my gratitude, my joy, the exhilaration of being recognized this way," he said. "I haven't been this speechless since The Force Awakens." Hamill thanked Lucas, Ford, Disney, and his family, and recounted his journey from childhood puppet shows to working actor. But he saved a special tribute for the Star Wars faithful.

Hamill receives his star as Star Wars: The Last Jedi arrives on Digital on March 13, and on 4K Ultra HD, Blu-ray, and On-Demand on March 27. Check out photos from the ceremony below! (All photos by Alberto E. Rodriguez.)

THESE CRYSTAL FOX SCONES WILL SHOW YOU THE WAY TO DELICIOUSNESS

Star Wars: The Last Jedi introduced the mineral planet of Crait where fans became acquainted with a new unique species known as vulptex, or the crystal fox. These crystal critters are easily recognized by their white, crystalline fur. In this recipe, standing in for the luminous pelt are coarse sanding sugar crystals, which give off the same shiny, eye-catching glow. They are sprinkled atop a buttery glazed scone, ideal for serving at a proper intergalactic tea.

In this recipe, standing in for the luminous pelt are coarse sanding sugar crystals, which give off the same shiny, eye-catching glow. They are sprinkled atop a buttery glazed scone, ideal for serving at a proper intergalactic tea.

Vulptex Sugar Crystal Fox Scones

What You'll Need: Coarse sanding sugar crystals, black icing, blue sparkle gel, white icing...Scone ingredients: 2 cups all-purpose flour 1/3 cup sugar, 1/2 teaspoons baking powder, Pinch of salt, 1/2 cup unsalted butter, 1 egg, 1/4 sour cream,1/4 heavy cream, 1/4 teaspoon vanilla... Glaze ingredients:1/2 cups powdered sugar 2 Tablespoons unsalted butter, melted 1/2 teaspoon vanilla, 2-3 Tablespoons whole milk, as needed.

Step 1:
Preheat the oven to 400 degrees. Prep a baking sheet with a silpat or parchment.

Step 2:
In a large bowl, whisk together the flour, sugar, baking powder, and salt. Using a pastry cutter, cut in the butter until the mixture is crumbly.

Step 3
Add the egg, sour cream, heavy cream, and vanilla until combined.

Step 4
Form small balls of the dough and shape into vulptex-like head shapes, approximately 3-inches tall. Place on the prepped sheets.

Step 5
Bake for 12-14 minutes depending on your oven. Let cool on a wire rack.

Step 6
In a bowl mix together the powdered sugar, melted butter, vanilla, and milk. Add more milk as needed to get the right consistency. Dip the cooled scones into the glaze, then dip into the sanding sugar crystals.

Step 7
With a #4 tip and black icing add the nose and eye details, along with blue sparkle gel for the pupils of the eyes. Use the white icing and a #5 tip to add more face details. Once the icing is dry the scones are ready to serve.

5 THINGS WE LEARNED FROM STAR WARS: THE LAST JEDI – THE VISUAL DICTIONARY

Even after multiple viewings, Star Wars: The Last Jedi is a trove of sights to discover, revealing more hints of a larger universe. But what better way to learn more about the characters, places, and things of the galaxy seen in The Last Jedi than to learn from the Star Wars: The Last Jedi – The Visual Dictionary from DK Publishing. Written by Pablo Hidalgo, whose role on the Lucasfilm Story Group ensures he's in the know for everything happening in the Star Wars universe. The Visual Dictionary literally provides names and fills in the details that take us beyond the movie. Here's some of the coolest tidbits of knowledge we learned from this comprehensive guide.

1. Med ship, gun ship, two ships, one ship.

We know from The Last Jedi that Vice Admiral Holdo is the commander of the Ninka before her promotion to lead the entire Resistance fleet, but which one is the Ninka? The Visual Dictionary has us covered — General Leia Organa's Mon Calamari flagship is named after none other than the rebel admiral who backed up Jyn Erso's mission to Scarif, Rogue One's Admiral Raddus. The Raddus is heavily automated and can project its deflector shield far from its hull, allowing it to defend smaller ships within range. Admiral Ackbar was the one to petition the naming of the ship after his fellow Mon Calamari hero.

While it was difficult for the Resistance to find a map to Luke Skywalker, readers of this reference have it easy: there's a map of the island on Ahch-To that is home to the origins of the Jedi. In addition to the Jedi Temple, and Jedi Village, where Rey and Luke stay, there's also the mirror cave, and a separate village that is home for the Caretakers, the female Lanais who maintain the Jedi structures out of a sworn duty. You can read in more detail about the Lanais.

Fellowship of the ringsThe Visual Dictionary series excels at taking readers beyond the film by filling out the galaxy with extra details: everyday items that tell their own stories. Poe Dameron wears a ring on a necklace — it was his mother's wedding ring, made from a steel washer from some old Rebellion machinery. Supreme Leader Snoke also had a ring — capped with a piece of obsidian from the catacombs below Darth Vader's castle on Mustafar. Amilyn Holdo's accessories represent the astronomy from her homeworld of Gatalenta. Even Luke Skywalker carries a piece that surely has a tale behind it — he keeps a bola with a recovered Jedi Crusader pendant, carrying a trophy piece of a broken Sith lightsaber crystal.

Executing orders

Have you ever wondered who are those mysterious executioner troopers and why does the First Order resort to such theatrics for dispensing justice? I'm glad you ask! In a section on stormtroopers, we learn that public executions are part of the First Order's way of clamping down on disloyalty. Instead of being a special unit assigned to a head honcho, any stormtrooper may be assigned to executioner duty for a day. While on regular duty, stormtroopers have their serial number broadcast from their helmets to other nearby helmet displays, but executioner helmets keep the axe-wielders anonymous from their peers, but not to their commanders.

While Supreme Leader Snoke still has a mysterious background, many details about his Praetorian Guard are revealed. Shunning ranged weaponry, these four pairs of warriors protect the Supreme Leader from anyone afforded an audience with their reclusive boss. While their red armor (ink back to Emperor Palpatine's brilliant red Royal Guard, their armor and weapons reveal their lethality. Their segmented armor is powered, able to create a localized magnetic field that helps deflect blaster fire and even glance off indirect lightsaber blows. Their weapons include the Bilari electro-chain whip, twin vibro-arbir blades that can be connected or separated, a vibro-voulge, and an electro-bisento. While the origins of the Praetorians remain a mystery, their name stems back to the 14th Atrisian Emperor of Kitel Phard.

WHY THE LAST JEDI IS A POWERFUL FABLE ON THE IMPORTANCE OF TEACHING

Teaching and learning is among the most prevalent motifs in Star Wars, particularly in Star Wars: The Last Jedi. The mentor figure instructs the willing student in the ways of the Force. However, it's not that cut and dry in Rian Johnson's film. It's much more of an unorthodox process for the Force-wielders on Ahch-To, and provides a masterful commentary on what pedagogy is all about.

Yoda

Perhaps no Star Wars instructor demonstrates this better than Yoda. He appears to call down lightning on the uneti tree and destroys the bound library of Jedi knowledge, much to Luke's shock and consternation. Yoda is modeling a valuable tool used by many educators: adaptability. As a teacher, you may have an airtight lesson, but if you do not know your students, the lesson may fall flat. Hence, the need to modify the initial plan to best serve the needs of the learner. Yoda knows Luke is hurting, encourages him to take himself a little less seriously, and tells him failure is the best teacher. An unconventional philosophy for some, but Yoda sees things in a much more enlightened way.

Luke Skywalker

Since the time when he bravely threw down his lightsaber in the Emperor's throne room, his faith in himself and the Force has waned; he believes the Jedi viewpoint and philosophy is part of what led to his perceived failure with Ben Solo and his plan to resurrect the Jedi Order. He has forgotten how to adapt and modify his point of view. He thinks he failed the galaxy, and is temporarily incapable of seeing things from a different perspective. He goes so far as to close himself off from the Force, which is problematic, considering that the Force is a big part of who the Jedi Master is. In short, his failure is complete, or so he thinks.

Luke blames himself for Ben Solo's fall to the dark side. Ben Solo made his own choice to turn to the dark side, but Luke does not appear to acknowledge this fact. Instead, he turns to his own pride and conceit, which inadvertently helps catapult the galaxy into further turmoil. Failure is the greatest teacher, but you have to be willing to embrace this, turn from hubris, and learn from your mistakes.

5 WAYS BOMBER COMMAND CONNECTS TO THE LARGER STAR WARS UNIVERSE

For anyone excited to learn more about Paige Tico, her sister Rose, or other Resistance fighters, look no further than Jason Fry's Bomber Command. Bomber Command is a journal-style book filled with illustrations, and fold-out pages written from the perspective of Paige, a ball-turret gunner for the Resistance.

1. It provides a backstory for Paige, Rose, and Cobalt Squadron.

Bomber schematics for Paige's ship, Cobalt Hammer, and details of the magno-charges in the bomb bay we see Paige climb through during the opening sequence of The Last Jedi start off the book. While detailing her family history, Paige reveals how she and Rose received their matching pendant necklaces and her plan to share stories of Finn's heroics with Rose. Paige journal entry "we all need hope to get through this fight" serves as a nice set up for Rose and Finn's introduction to each other in The Last Jedi.

2. It adds details to the Force Awakens timeline.

Since the timeline for Bomber Command is shortly before The Last Jedi, many of the entries flesh out what Leia and the Resistance were doing during the time Rey and Finn met on Jakku and made their way to the Resistance Base on D'Qar. A highlight for any Leia fan is the section of Bomber Command that includes the full address Leia gave to the New Republic Senate which warns the Senate of the increasing danger of the First Order. As of the unskilled are encouraged to enroll their children in "Frontier Corps" where children who are approved "will be guaranteed food, shelter, education, and the opportunity to make the galaxy a better place." The Battlefront II storyline also references a secret operation, Project Resurrection, which focused on forcibly turning children into First Order troopers.

Bomber Command has a lot of information about ships seen in The Last Jedi, but there's also a bit of history in Paige's journal about bombers such as the Y-wing, TIE bomber, and the Hyena Bomber. All of these ships were seen in the original trilogy movies, Star Wars: The Clone Wars, and even the video game Battlefront II.

3. It features bombers through time.

Bomber Command has a lot of information about ships seen in The Last Jedi, but there's also a bit of history in Paige's journal about bombers such as the Y-wing, TIE bomber, and the Hyena Bomber. All of these ships were seen in the original trilogy movies, Star Wars: The Clone Wars, and even the video game Battlefront II.

4. It includes creatures from across the galaxy.

Fathiers, a clear favorite of Rose in The Last Jedi, start off this section that also includes creatures such as Jabba's favorite snack, the gorg, from Return of the Jedi, and The Empire Strikes Back's pesky power-cable-loving mynocks.

5. It maps it all out.

As the Star Wars universe expands, so does the need for maps to track the locations of different planets and systems. The First Order Space Galactic Map in Bomber Command includes planets that played a large part in multiple Star Wars films including Naboo, Endor, Jakku, and Yavin, as well as Paige's current home on D'Qar with the Resistance.

IN THE LAST JEDI, REY'S JOURNEY IN THE MIRROR CAVE ECHOES A STAR WARS CYCLE

Star Wars has always been circular, and that's why it's no surprise that there are similarities in the journeys between Anakin, Luke, and Rey as they each navigate the middle parts of their trilogies. Rey's trip inside the mirror cave strongly resembles Luke's test on Dagobah against the spectre of Vader, and the imagery even goes back further to Anakin's trip to the well of the dark side in the Mortis trilogy in Star Wars: The Clone Wars.

In the Mortis trilogy, Anakin Skywalker is shown what he will become and when he learns this, he turns directly to the dark, willing to embrace the evil in himself to prevent greater atrocities in the future. He sees himself as Vader reflected in the vision and this explains the key flaw in Anakin that terrifies Luke about Rey so much: Anakin is willing to go straight to the dark if he perceives a payoff in the light. Ultimately, he still becomes Darth Vader.

Years later, on Dagobah, Yoda tells Luke that the only thing in the cave, which he describes as a domain of evil, is what he takes with him. Luke is confronted with the thing he's most terrified of: Vader.When he struck Vader, cutting his head off, what does he see? His own terrified face reflected in his fear. Was this to mean that Vader was always a Skywalker? Or that Luke could turn down the path of Vader? In either case, it's a poignant bit of imagery that has allowed our minds to divine what its true meaning might be endlessly over the years.

Like Anakin and Luke before her, Rey is called to a well of the dark side to confront her fear. For Rey, this fear is her lack of belonging and her emotional reliance on her parents. It's also interesting to note that the imagery of Rey and Anakin's respective wells of the dark side are opposites. Anakin's is set deep in a flow of boiling lava, bright red and hot. Rey's is in a cold, damp place, surrounded by water. Luke's is a middle ground between the two in a steamy, swampy marsh, both hot and wet, a bridge between the two.

Luke's vision comes true in a sense when Vader reveals his true identity to Luke. There is a Skywalker in the Vader suit, and Luke has to grapple with the truth of his own identity as well. If his father was inside Vader, could there be Vader inside him? Rey has to grapple with this in the opposite way. The mirror shows Rey her own face and she's not ready to confront what this means. She doesn't want to admit what Maz told her plainly in The Force Awakens, her family was "never coming back". Connections like these help tie the Skywalker saga together through the generations, from Anakin to Luke to Ben, with each of them participating in different parts of the myth, in a way that deepens our understanding and bind the characters together in unexpected ways.
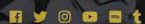
NEW SOLO: A STAR WARS STORY PHOTOS AND DETAILS REVEALED

Entertainment Weekly pulled back the curtain on Solo: A Star Wars Story this week, with several great articles on the making of the film, plot and character details, and more. Here are some of the highlights, along with new photos revealed.

Entertainment Weekly pulled back the curtain on Solo: A Star Wars Story this week, with several great articles on the making of the film, plot and character details, and more. Here are some of the highlights, along with new photos revealed.

The droid seen saluting Lando in the teaser is named L3-37 (played by Phoebe Waller-Bridge through motion capture). L3-37 is Lando's sidekick — she has some personality and she's somewhat self-made. "She's a self-modified droid," co-writer Jon Kasdan told EW's Anthony Breznican. "The idea is that she's sort of a mutt, if you will, of various parts of different kinds of droids who has improved upon herself."

Alden Ehrenreich's Han Solo will link up with a whole slew of shady folks, including Tobias Beckett (Woody Harrelson), Val (Thandie Newton), and gangster Dryden Vos (Paul Bettany). How good or bad are they? We'll find out. "He likes to know his way in and out of any situation that he's in," Donald Glover told EW of his scoundrel. "Lando likes rules because he's somebody who is in a position to benefit from rules."

Check out additional new photos below, and for more on Solo: A Star Wars Story, pick up the new issue of Entertainment Weekly featuring Anthony Breznican's cover story, available today.

THE INTRODUCTION OF KYLO REN AND THE MEANING OF A MASK

The creators of The Force Awakens chose to not shy away from comparisons that this new Star Wars villain would draw to one of the most iconic bad guys of all time, Darth Vader. They decided to instead embrace comparisons between the two characters and use their similarities as a narrative device. J.J. Abrams noted in his commentary for The Force Awakens, "The character of Kylo Ren was one of the most challenging characters because he sort of embodied what this movie was. It was a new story, a new personality created from the DNA of what had come before, but because he was the villain it meant he was in the shadow of Darth Vader one of the great villains in cinema history."

As the film opens, Lor San Tekka hands Resistance pilot Poe Dameron secret information in a small Jakku village. Before Poe can escape, First Order troopers arrive and start rounding up its inhabitants. When Poe looks up in the sky, he sees the descent of Kylo Ren's shuttle, a sleek bat-like ship much more refined than the bulky Atmospheric Assault Landers the First Order troopers arrived in minutes before. Kylo walking down the landing ramp of his command shuttle with First Order troopers at attention is very reminiscent of Darth Vader walking down the ramp of his Imperial shuttle at the beginning of Return of the Jedi.

All of these visual clues let the audience know without a doubt that this isn't just any bad guy, this is the bad guy in charge. The music during this scene is Kylo Ren's theme, which is suitably bold and dramatic. Kylo Ren's wardrobe is a callback to the garb of past dark-side servants, with a somewhat Vader-esque face-covering mask that alters his natural voice. Audiences at this point don't know that Kylo is Darth Vader's grandson and that the resemblance is an attempt to honor the deceased Sith Lord. The mystery of who is behind this menacing mask encourages the audience to wonder what kind of person (human? cyborg? Sith Lord?) is underneath it.

After Lor San Tekka speaks to him about a time before he was known as Kylo Ren, Kylo heartlessly kills Lor San Tekka and then orders the death of the village's inhabitants in his obsessive quest to find the map to Luke Skywalker. He certainly doesn't seem to give these actions a second thought, which makes the scene that much more scary and disturbing. The red crossguard lightsaber Kylo uses to kill Lor San Tekka is a huge clue to audiences that he has Force powers, and Kylo's next move leaves viewers no doubt that he is a similar threat to the Resistance as Vader was to the Rebellion. Kylo is not only showing that he can use the Force in this shot, he's also showing us that he has an impressive amount of control of his powers — perhaps a larger amount of control than those who came before him.

After Kylo Ren orders Poe to be taken aboard his ship, audiences have seen nothing from his character that suggests he is anything but a powerful, ruthless, Force-strong killer. Kylo's actions throughout the film are unquestionably evil, but his journey to the dark side does not appear complete, and his role as a leader of the First Order does not remain unquestioned. Throughout the film, Kylo wavers between controlled evil and emotional instability. Kylo has the discipline to invade the thoughts of Poe Dameron, but he is also prone to fits of violent rage when things don't go his way or he is challenged.

Kylo's mask, and the removal of it are representative of the identity crisis he experiences in different sections of the film. Kylo doesn't need to wear his mask to survive like Darth Vader did; he instead uses it as a means of intimidation and as a way to perhaps mentally separate himself from his previous life as Ben Solo. Anakin's change to Darth Vader was physically permanent. He was, as Obi-Wan said, "more machine now than man," but Kylo Ren's mask is more of a symbolic prop.

The removal of Kylo Ren's mask in different scenes of The Force Awakens lets the audience see the conflict he feels before he murders his own father. Earlier, an unmasked Kylo Ren allows Rey to look into his eyes, and then see his fears when he is attempting to pry information from her mind. Kylo Ren shows a sign of wanting to be seen as a man and not a monster when he rips off his mask after Rey calls him a "creature in a mask." In this same scene, Rey saw Kylo Ren's mask as a weakness and exploited his insecurities about it, which is a far cry from the scenes in the original trilogy where Vader's subordinates were visibly horrified by his mask and the man wearing it. Kylo's destruction of his mask can also be read as a clear turning point for the character — one that would influence everything that would follow in The Last Jedi.

HOW THE LAST JEDI NOVELIZATION CONNECTS TO A GALAXY OF STAR WARS BOOKS AND COMICS

It's a galaxy full of stories! Rian Johnson's The Last Jedi screenplay picks up where The Force Awakens left off. Includes a famous holographic plea from A New Hope, and shows us Luke Skywalker discussing Darth Sidious and the Jedi of the prequel era.

The result is a story that's rich and deep, full of connections to stories we know and love. In writing the novelization of that story, I saw a chance to further those connections by drawing on not just Star Wars movies and TV shows but also on novels, written by my fellow authors. In introducing Rey, I wanted to back up a little so we could speed a bit more time with her before her fateful meeting with Luke atop the island of Ahch-To. I went back to Alan Dean Foster's The Force Awakens novelization, making sure my account was consistent with how Alan had approached that scene. The introduction of sisters Rose and Paige Tico, meanwhile, recreates a scene from Elizabeth Wein's Cobalt Squadron.

I worked really hard to make the Force a presence in the novelization, almost as if it's a character in its own right. Several characters — Luke, Rey, Leia Organa, Snoke, Kylo Ren, and Maz Kanata — perceive the Force and seek to understand its will. Those perceptions and interactions can be very different, but I wanted them to have an underlying unity, as if they were all part of a larger conversation among the galaxy's Force-users.

The Weapon of a Jedi, my 2015 book is showing Luke learning critical, early lessons about the Force and fighting his first lightsaber duel. Luke's critical insight in Weapon — that the Force is generated by life, yet overspills the boundaries of the living things that create it. But I also relied on explorations of the Force from my fellow authors. Three stories in the 2017 anthology From a Certain Point of View were an enormous help. Claudia Gray's "Master and Apprentice" posits a wealth of ideas into seven short pages, and gave me insights into Force ghosts and the slippery nature of time in relation to the will of the Force. A fan-aspect of a novelization is getting to delve into characters' thoughts, motivations, and pasts in a way that can be difficult on-screen. As with my interpretation of the Force, that task was a lot easier because of great ideas from my fellow authors.

For Phasma, where else could I turn but Delilah S. Dawson's Phasma? Film recalls a barracks rumor about Phasma's origins which readers will recognize as a second- or thirdhand account of the real story of Phasma on her homeworld of Parnassos. And when Finn, Rose, and DJ infiltrate the Supremacy, he passes on a bit of stormtrooper training that originated in Delilah's novel. The novelization opens with a startling first line-and a dream sent to Luke by the Force as a warning. In Luke's dream, he never left Tatooine and grew old in a very different galaxy ruled by a triumphant Empire.

Writing and teleworking scenes with Leia Organa was one of the greatest pleasures of writing the novelization — and one of the biggest responsibilities. Claudia's Bloodline and Leia Princess of Alderaan were critical here, with Leia recalling her first mission to Codi from the latter book. Some of my favorite new scenes in the novelization delve into Leia's sense of duty and the emotional toll it's taken on her — a theme that Carol Castellucci and I explored in our 2017 collaboration Moving Target.

Kylo Ren — or, if you prefer, Ben Solo — demanded a balancing act in the novelization. We of course wanted to know more about his past and his thoughts about the future, but at the same time, I had to be careful not to do anything that might step on Episode IX's storytelling. Still, I was able to give us glimpses of his childhood, including Leia's memory of Ben in the womb — a scene that reaches back to Chuck Wendig's Aftermath trilogy.

Chuck's trilogy told us some of what happened to the Empire after the Battle of Endor, supplying critical information for the novelization's account of the Contingency and the rise of the First Order. A young Armitage Hux is also a character in those books, as is his father Brendol. Brendol was first glimpsed in my own Servants of the Empire books, in which Zare Leonis discovers the seeds of Brendol's scheme for training stormtroopers from birth — a program put into place by Armitage, and recalled by him in the novelization.

George Lucas' galaxy far, far away is also the world's best sandbox, with people who create movies, novels, comics, videogames, and more all getting to sit side-by-side, share their toys, and use them to tell new stories.

10 HIGHLIGHTS FROM STAR WARS: ICONS OF THE GALAXY

Available today, Star Wars Icons of the Galaxy gathers some of the Star Wars insider's greatest recent articles. The special collection includes interviews with Carrie Fisher and Harrison Ford, a comprehensive look at the legendary Marvel comic-book adaptation of Star Wars, and much more. Here are 10 highlights that you won't want to miss, straight from editor Jonathan Wilkins.

5 HIGHLIGHTS FROM THE SOLO: A STAR WARS STORY TEASER TRAILER

The teaser trailer for Solo: A Star Wars Story is here, offering a portrait of the scoundrel as a young man — and so much more. We get Han, Chewie, new characters, new vehicles, weird aliens in floating jars, and some giant tentacles. Here are five highlights of many.

1. "I'm gonna be a pilot. Best in the galaxy." Only one person could have the bravura to say that and the talent to back it up. For anyone who loves Han Solo, it's thrilling to turn back the clock and see the rogue scoundrel before he met Luke and Obi-Wan in Mos Eisley, before he said "I know," and before he became a legend. The opening narration by Alden Ehrenreich, delivered with classic Solo world-weariness, gives us a glimpse of who Solo was and where he's going. "I've been running scams on the street since I was 10." We're not surprised.

2. Hello, what have we here? The style. The smile. That's Lando, and Donald Glover — in just a few images — manages to capture the fan-favorite's essence perfectly. He appears cool and collected (until he's not, like when a giant tentacle is about to swat the Falcon), and we can't wait to see more of him.

3. The Millennium Falcon — was clean? Maybe the biggest shocker of all is that a ship that's been called a "hunk of junk," a "bucket of bolts," and "garbage" ever looked remotely nice. This teaser trailer shows that before we first saw it in all its beat-up glory (and still thought it was the coolest thing ever) in A New Hope, the Falcon had indeed seen better days.

4. That Western feel. From a desert standoff to the mention of a "crew," much of the imagery and tone of the Solo: A Star Wars Story teaser trailer seems rooted in classic Westerns — appropriate, considering that the genre was a major influence on the original Star Wars. And especially fitting for an early tale about a scoundrel who blasts bounty hunters under cantina tables.

5. Home run. We've seen Han pull off some fancy moves with the Falcon, and this might be the best. With a TIE fighter close by, Han spins, smashing the smaller craft away and into a fiery explosion. Just awesome, and a moment that exemplifies the Falcon's can't-be-matched cool factor. For best results, play on repeat.

Bonus: "I might be the only person who knows...what you really are." Actress Emilia Clarke's Qi'ra brings some straight talk to Solo, and Ehrenreich's reaction is pure Han: trying to be tough yet letting his vulnerability sneak through. It's a very human moment, and that relatability is why Han Solo remains our favorite nerf herder.