



Demo presentation

Educational image tool

Web Technology
(706.704)

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Educational tool for computer vision

With our app, we show how pictures are composed in the digital world:

- Split pictures into their RGB channels
- Interact with the channels using drag and drop
- Understand the alpha channel with an interactive slider
- Experience how different image displays are composed
- Save your modified image locally



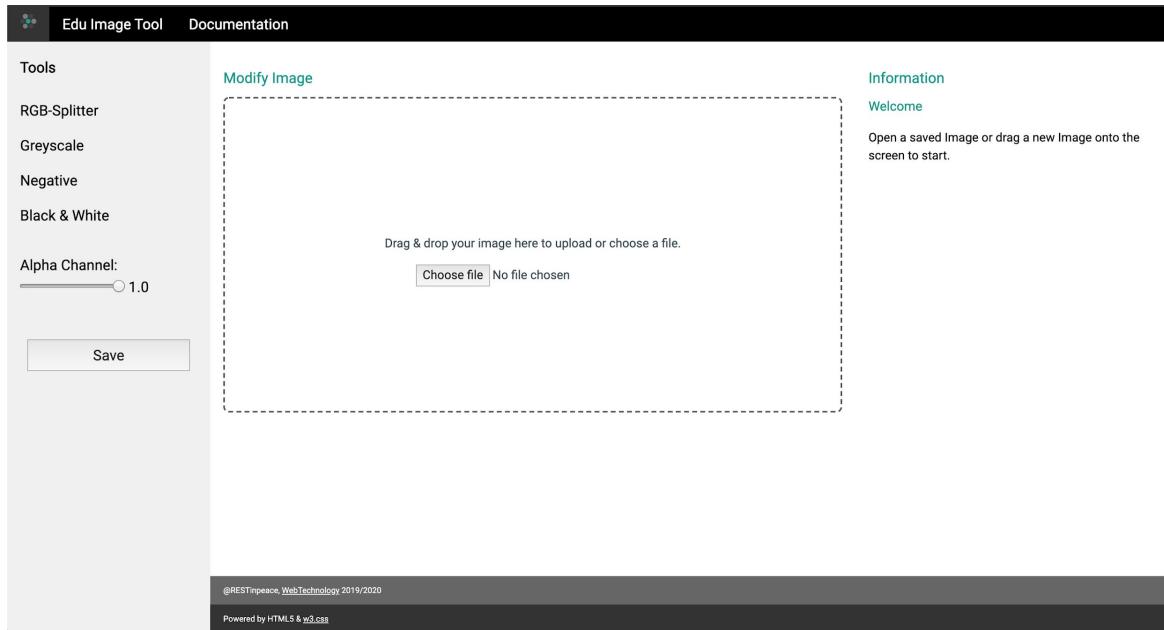
We used...

- Semantic Markup
 - To structure our application; <nav> for toolbar and <footer> for additional information
- WebForm components
 - Allows user to interact with the image operations
- Drag & Drop
 - Use drag & drop to upload an image
 - Interact with image using drag & drop on the canvas

We used...

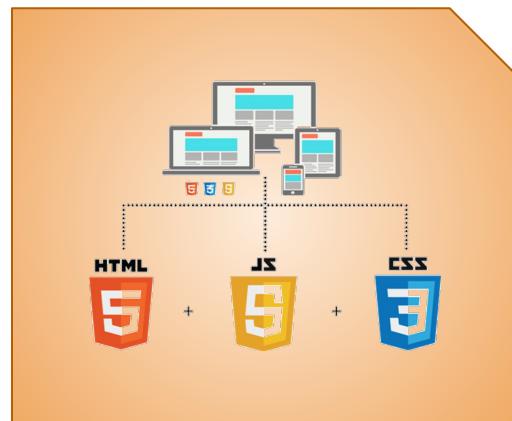
- Canvas element
 - For manipulating the uploaded image.
- WebWorker
 - Used to handle the image operation in a multi-threading manner.
- FileSystem API
 - For uploading and storing an image from and to local hard drive.

Our result



The screenshot shows the "Edu Image Tool" application interface. At the top, there is a navigation bar with the title "Edu Image Tool" and a "Documentation" link. Below the navigation bar, on the left side, is a sidebar titled "Tools" containing links to "RGB-Splitter", "Greyscale", "Negative", "Black & White", and "Alpha Channel" (with a slider set to 1.0). In the center, under the heading "Modify Image", is a large dashed rectangular area for image upload, with the instruction "Drag & drop your image here to upload or choose a file." and a "Choose file" button. To the right of this area, under the heading "Information", is a "Welcome" message: "Open a saved Image or drag a new Image onto the screen to start.". At the bottom of the page, there is a footer with the copyright notice "@RESTinpeace_WebTechnology 2019/2020" and the text "Powered by HTML5 & w3.css".

Our demo



Feedback

