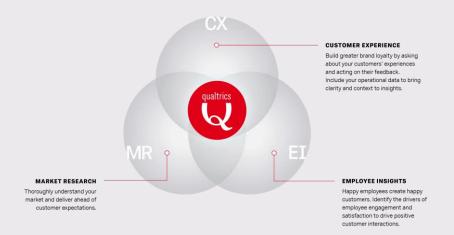
Tutorial: Creating a 2Alternative Forced Choice Experiment using ETK: the Evaluation Toolkit

Overview of steps:

- Create a Qualtrics project
- Add a Question
- Add the ETK CSS file
- Add the ETK HTML file
- Add the ETK JavaScript file
- Add output variables
- Get a URL link and put into Amazon Mechanical Turk



WELCOME TO ETK LAB

O OCTOBER 6, 2016 PEDIT



Welcome to the Evaluation Toolkit Lab. We have created a toolkit designed to help you conduct image-based perceptual studies on your own visualizations. Using this toolkit, you can quickly

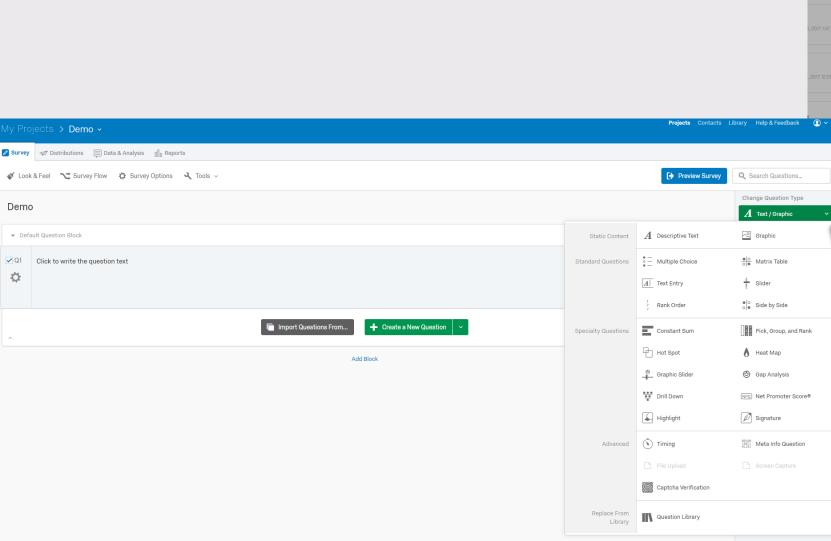
construct and conduct studies that provide feedback on your visualizations, so that you can evaluate, understand and improve them. If you have a visualization, and want to know how effective it is, our toolkit can help.

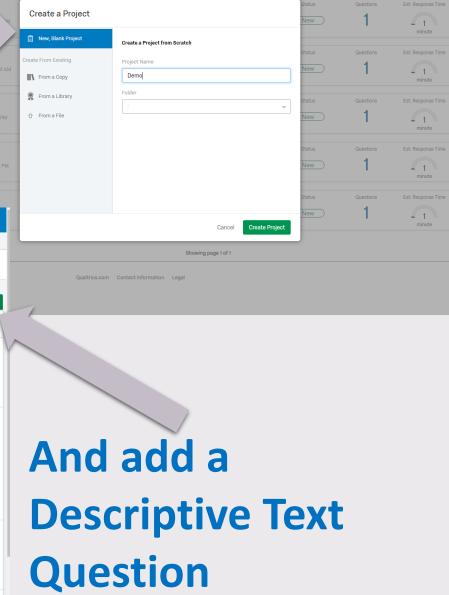
The ETK consists of a set of modules that leverage the JavaScript API within Qualtrics Survey software (www.qualtrics.com) to easily implement and run different types of psychophysical experiments with images. Each module consists of JavaScript, HTML and CSS scripts that are inserted into a Qualtrics question/survey. The researcher needs to make only minimal changes (e.g., update the list of images to use in a study) in order to get a study question set up.

The ETK may not be able to design a user study for you. But once you have an experimental design, the ETK makes it a snap to implement it within Qualtrics.

ETK homepage: etklab.org GitHub: github.com/ascr-ecx/etk

Create a new project

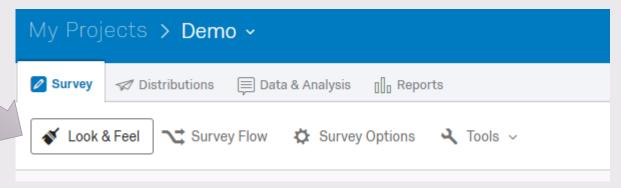




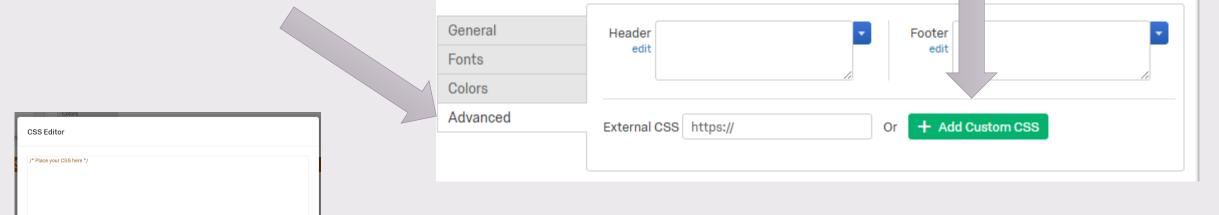
+ Create Project

Look & Feel tab leads to the

Full Screen



Advanced tab leads to + Add Custom CSS



+Add Custom CSS opens up CSS editor

CSS Editor

```
/* Place your CSS here */
                                    Insert the ETK CSS Tle; modify
                                    image width as needed
 .pairBox {
  margin-left; auto;
  margin-right; auto;
  width: 860px; /* Modify to be (2*image width + 60pixels) */
  position: relative;
  margin: 1em;
  border: 10px solid #ccc;
  overflow: hidden:
  background-color: #CCC;
 .choiceButton {
   background-color: burlywood;

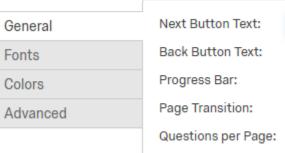
  position; center;
  text-align: center;
  font-weight: bold;
  font-size: 120%:
  width: 40%:
  margin-left: 5.0%;
 .nextButton {
 background-color; white;
 position: center;
```

Can also change Next Button to SUBMIT>>

Sull Screen

Cancel





SUBMIT>>

<<

No Progress Bar

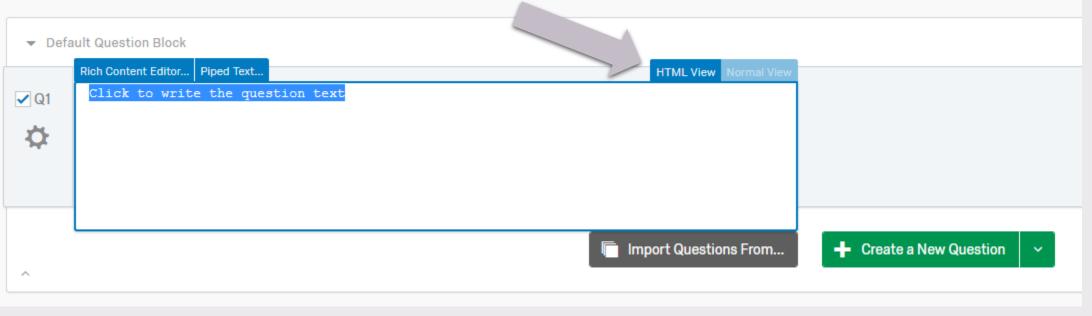
None

None

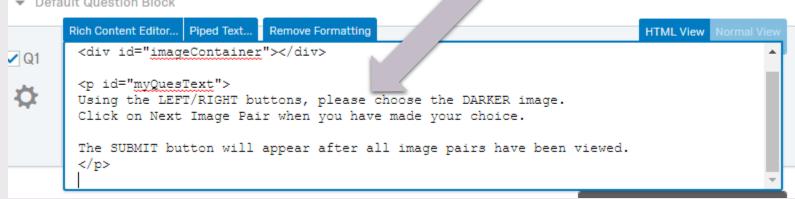
Highlight Questions

Question Separator

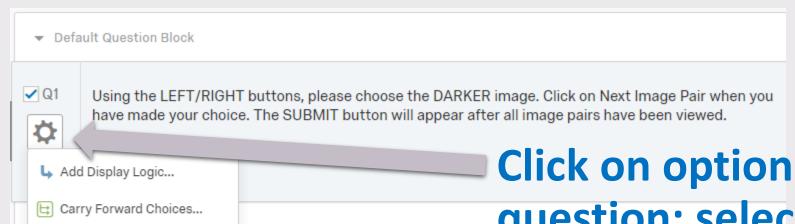
Click on the question to bring up the question editor; choose HTML View to insert the ETK HTML file



Edit as necessary for your question text.



Demo



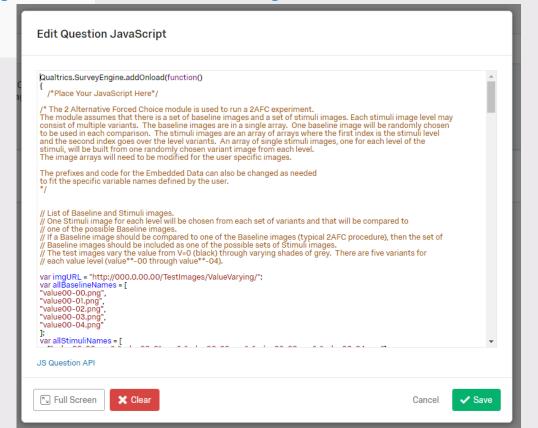
Add Skip Logic...

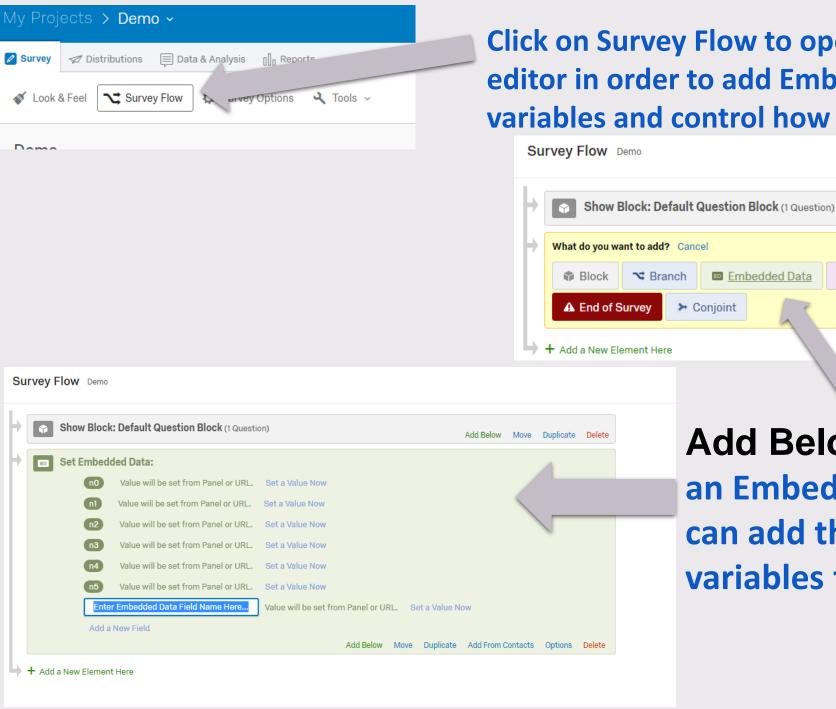
JS Add JavaScript...

Add Note...

Click on option icon to left of the question; select Add JavaScript... to bring up the JavaScript editor

Insert the ETK JavaScript file and edit as necessary to point to your image arrays and change any relevant options.





Click on Survey Flow to open the Survey Flow editor in order to add Embedded Data variables and control how the survey unfolds

Embedded Data

> Conjoint



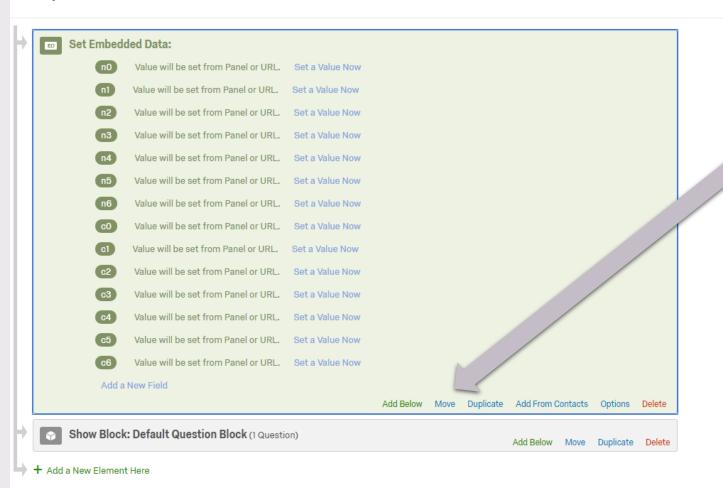
Meb Service

Randomizer

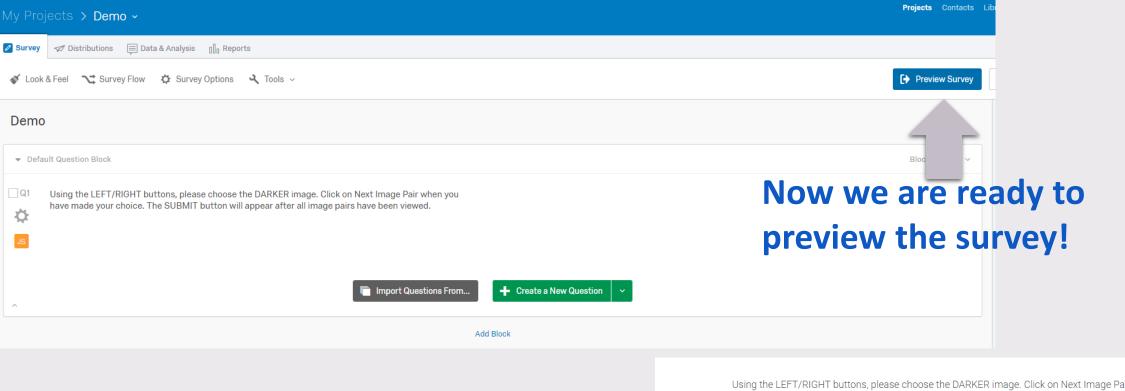
Add Below Move Duplicate Delete

Authenticator

Survey Flow Demo

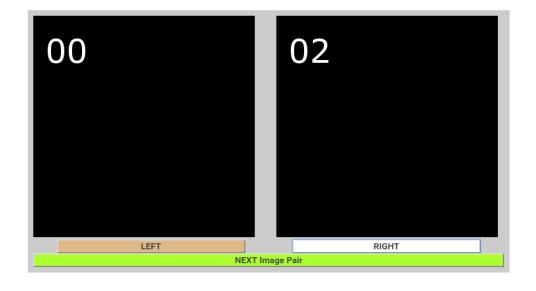


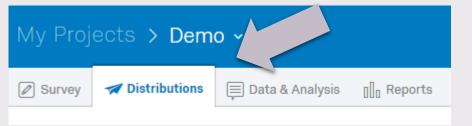
Be sure to move the Embedded Data block ABOVE the Question Block so that the Embedded Data variables are created before the question sets their values.



Study screenshot: This 2AFC study runs through the trivial example of determining the Value threshold at which study subjects can discriminate between black and grey. Can you tell which is the darker image?

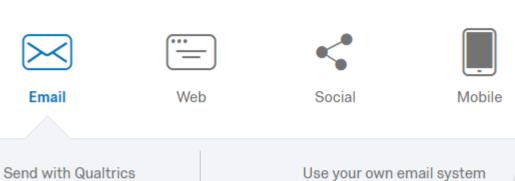
Using the LEFT/RIGHT buttons, please choose the DARKER image. Click on Next Image Pair when you have made your choice. The SUBMIT button will appear after all image pairs have been viewed.





Compose Email

How do you want to distribute your survey?



Get a single reusable link

Generate a trackable link for each contact

select the Distributions tab to get the distribution options.
Choose Get a single reusable link

Anonymous Survey Link

After building your complete study,

A reusable link that can be pasted into emails or onto a website, and is unable to track identifying information of respondents.

https://

.qualtrics.com/SE/?SID=SV_bxD0w1Mr24ffc1v

Customize Link



The Qualtrics URL link can be input into Amazon Mechanical Turk, either directly through Mturk or through TurkPrime, a useful data acquisition interface for Mturk.

