**Music Mixer Dev Notes**

**To Do:**

**Layout**

* Change layout to make most sense and look as appealing as possible once everything is in place and programmed properly.

**Stage**

* Find solution to sizing issue (currently will only be proper size if given fixed dimensions in HTML, doesn’t allow it to be responsive).
* Add a border when an instrument is dragged within its bounds.

**Instruments**

* Remove images on drums in icon drawer, only display when on the stage.
* Allow drag and drop to the stage (automatically placed in correct position when dragged within stage area).
* Allow drag and drop off the stage.
* Allow drag and drop to the stage replacing the instrument from the same instrument group that is currently playing.
* Increase size when being dragged and dropped.
* Animate on stage while playing.

**Sound**

* Get samples for each instrument, all the same BPM.
* Get sound bytes of cheering and booing.
* Start playing according sound when an instrument is on the stage (only plays once the current bar is completed).
* Play cheers when certain combinations of instruments are on stage and boos with other combinations.

**Lights**

* Change random colours when the crowd is cheering.

**Research / Ideas:**

**Drag Events**

* drag event is fired every few hundred milliseconds as the user drags an element.
* dragend event is fired when the user releases the mouse button, ending the drag operation.
* dragenter event is fired when the element is dragged into a valid drop area.
* dragexit event is fired when the user is no longer dragging the element, the element is no longer the target for the drag operation.
* dragleave event is fired when the element is dragged out of a valid drop area.
* dragover event is fired every few hundred milliseconds when the element is being dragged over top of a valid drop area.
* dragstart event is fired when the user starts dragging an element.
* drop event is fired when the user drops the element on a valid drop area.

**Inspiration:**

<https://www.incredibox.com/>

<https://www.youtube.com/watch?v=ebhRj-dxnWE>

<https://www.youtube.com/watch?v=JKo5II8-1dU>

<http://www.animatedimages.org/img-animated-music-image-0074-65773.htm?fbclid=IwAR1FdcwZEeUzRtdBxPjwc96FaaihAeF1YvkyKoObTH36I2ROVUr76i8mARs>

<https://dribbble.com/shots/3055715-Tonicons-Animated-Music-Icons?fbclid=IwAR0eQ80X6JpANkN8FgPUhucQJ10Dx9LX0kLnvKr1QkIThv266yPw6_3RrDQ>

<http://www.animatedimages.org/img-animated-music-image-0585-66118.htm?fbclid=IwAR3LiemkFcphKtsSbM7i4QexUKB_W0nKGKGAUDhBmq7Z6DNMq_UKlX6maMQ>

<https://www.videoblocks.com/video/animated-guitar-electric-red-3d-icon-loop-modules-for-edit-with-alpha-matte-rpwwir_6gj1bcpwwo?fbclid=IwAR3X-UIvuFP9sxlbL3SqkUtnLhhu-w3iIXNs0TVr8gEIFVFf-YUh2sA6dM8>

<https://gregbrowe.com/2d-rocker-3d-guitar?fbclid=IwAR0T_qCoeO4nii3cq4C2q6-JNbLJtHN-IPM1B5j00OTdu2CxSr2NWZ8p3QQ>