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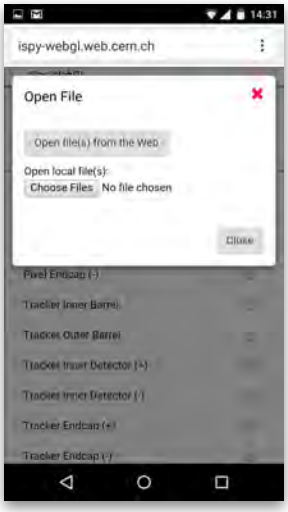
v0.1

iSpy WebGL + Google Cardboard

iSpy WebGL is a browser-based event display for the CMS Experiment at the LHC. It is written in JavaScript, HTML, and CSS and uses WebGL for graphics. Google Cardboard is a virtual reality platform for use with a simple, inexpensive cardboard viewer. With a reasonably modern smart phone, running a browser (such as Chrome, which works best) you can use iSpy WebGL and a Google Cardboard viewer to explore CMS events in 3D.

1) Go to http://cern.ch/ispy-webgl (it may take a minute or two to load)

2) Click on the "File" button on the upper left (note that the background has been changed to white for printing this document)

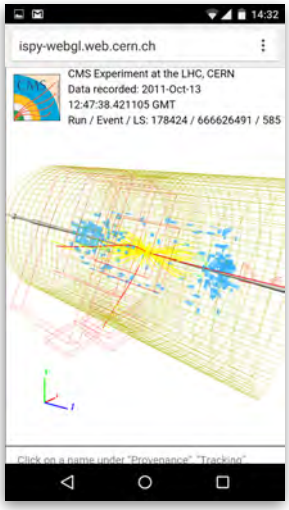


3) Open a file from the web

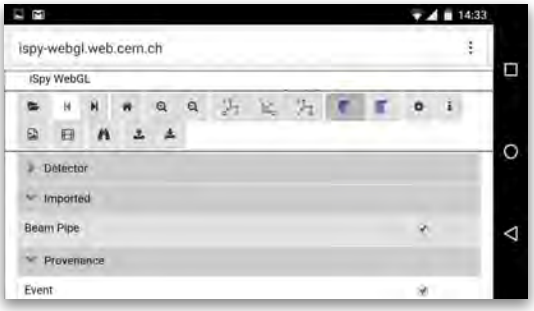
4) Select a file (*e.g.* 4lepton.ig)

Questions/comments/problems? thomas.mccauley@cern.ch
Links:
http://cern.ch/ispy-webgl
https://www.google.com/get/cardboard

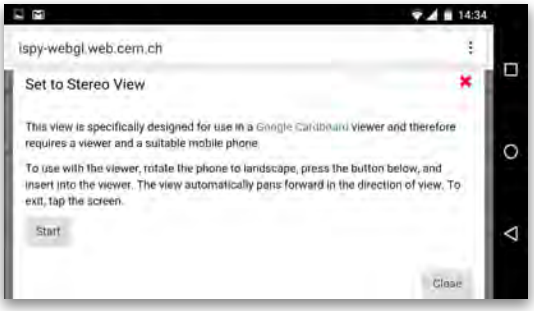
5) Select an event, then “Load”



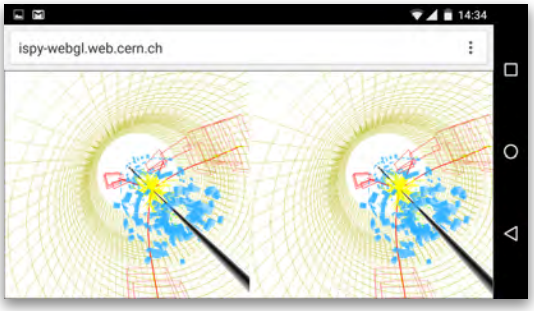
6) Scroll down a bit, then you can view an event. Touch events work: 1-finger for rotate, 2-finger for zoom in and out, 3-finger for panning.



7) Rotate your phone and press the stereo view “Binocular” button



8) Press “Start”



9) *Et voila*

10) Insert your phone into the viewer…

11) …and view. When you look up, down, and around the device orientation changes your view. There is a slow, automatic pan forward. To exit, remove the phone and tap the screen.