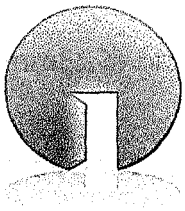


OPEN OPTOMETRY
www.openoptometry.com

Open Source HTML5, Vector Based, Test Chart

Report for NOC 2016

Open Optometry has recently applied for funding from the Central Optical Fund. It is available for anyone to use at www.openoptometry.com and has been developed over the last 3 years from help with Optometrists from theoptom.com community.

It's key features include:

- SUPER FAST RESPONSE: SVG graphics & HTML5 structure = quick loading with lossless rendering
- OPTOMETRIST DESIGN: Designed by an optometrist who uses it everyday in practice.
- EXPERT DEVELOPERS: Coded by a specialist in Artificial Intelligence
- ATTENTION TO DETAILS: LogMAR chart for more accuracy for people with Low Vison
- QUICK KEYBOARD SHORTCUTS: Randomisation of letters at a press of a button
- PICTURES, GRADIENTS & PREFERENTIAL LOOKING: For kids and Px's with learning difficulties

The last year

Since last year beta version 3.2 was released for testing. This included a basic number plate test for distance, reading chart and simple gradient tests and preferential looking cards for near. Also included was support for associated phoria tests using a passive 3d TV glasses and red green anaglyph glasses.

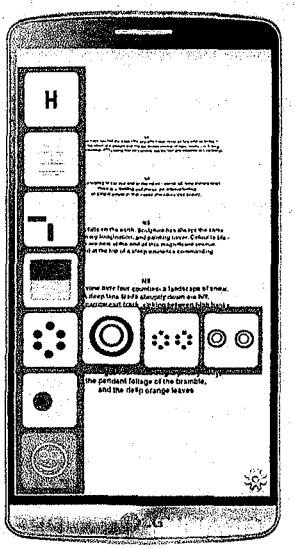
What next:

Continue fixing bug list

- Maddox needs to change with arrow keys
- Arrow keys wrong way round for duochrome & cross cyl

- Arrow keys stick going to smaller sizes. Have to press return or tap screen to refresh.
- Number Plate size slightly off? Measuring 26mm instead of 23mm
- Letters overlap edge screen at bigger sizes
- Snellens starts at largest size - probably better to start at smaller size
- Optotype resets when goes to other charts.
- Short code keys eg F7 to be restored
- function keys F1, F2 etc which I use for changing test types on your current chart trigger browser specific short cuts (in Chrome at least)
- Near test chart test distance stays at 6m. Should change to 0.5m when selected.

Next Version



- Align available charts to LOCSU pathways - specifically Children's Vision, People with Learning Disabilities and Low Vision.
- User Log in to save settings
- Navigation bar for touch devices
- Separate Settings and control bar
- Associated Split Anaglaph Associated phoria should have adjustable colours and background.
- Then will only need one associated phoria test and can remove [F10] Assoc
- 3 line option for distance test chart needs adding back.
- Stereotest
- Background to be selectable for all tests
- Colour test
- Log in to save set up and settings
- Central Optical Fund logo on load up

Developers are due to start the next level of development in January and take roughly 6 months.

OPENOPTOMETRY
www.openoptometry.com

Open Source HTML5, Vector Based, Test Chart

Report for NOC 2017

It is available for anyone to use at www.openoptometry.com and has been developed over the last 4 years from help with Optometrists from theoptom.com community.

It's key features include:

- SUPER FAST RESPONSE: SVG graphics & HTML5 structure = quick loading with lossless rendering
- OPTOMETRIST DESIGN: Designed by an optometrist who uses it everyday in practice.
- EXPERT DEVELOPERS: Coded by a specialist in Artificial Intelligence
- ATTENTION TO DETAILS: LogMAR chart for more accuracy for people with Low Vison
- QUICK KEYBOARD SHORTCUTS: Randomisation of letters at a press of a button
- PICTURES, GRADIENTS & PREFERENTIAL LOOKING: For kids and Px's with learning difficulties

Since last time:

The development has stalled slightly due to it taking longer than expected to set up a bank account for the Ltd Company. However, this went through last month and a cheque was gratefully received from the COF.

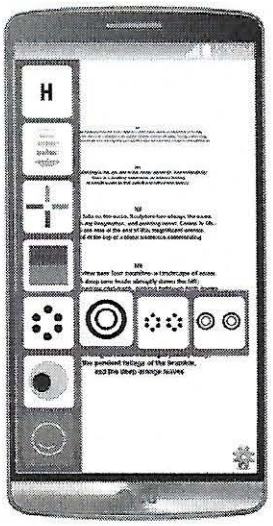
- New website at www.OpenOptometry.com with link to COF website
- Version 4 Alpha launched
- Fan and Block added
- Arrow keys wrong way round for duochrome & cross cyl - fixed
- 3 line option for distance test chart needs adding back - fixed
- Gradient tests and preferential looking cards for near expanded.
- Central Optical Fund logo on load up

What next:

Continue fixing bug list

- Maddox needs to change with arrow keys
- Arrow keys stick going to smaller sizes. Have to press return or tap screen to refresh.
- Number Plate size slightly off? Measuring 26mm instead of 23mm
- Letters overlap edge screen at bigger sizes
- Snellens starts at largest size - probably better to start at smaller size
- Optotype resets when goes to other charts.
- Short code keys eg F7 to be restored
- function keys F1, F2 etc which I use for changing test types on your current chart trigger browser specific short cuts (in Chrome at least)
- Near test chart test distance stays at 6m. Should change to 0.5m when selected.

Next Version



- Continue to align available charts to LOCSU pathways - specifically Children's Vision, People with Learning Disabilities and Low Vision.
- User Log in to save settings
- Navigation bar for touch devices
- Separate Settings and control bar
- Associated Split Anaglyph Associated phoria should have adjustable colours and background.
- Then will only need one associated phoria test and can remove [F10] Assoc
- Stereotest
- Background to be selectable for all tests
- Colour test
- Log in to save set up and settings

FABULOUS PIECE OF KIT

- have been using for a week and found it absolutely fantastic. In a previous life I used the very costly software and have found openoptometry.com easier and quicker! Mr Iain Mellis is indeed a genius!

Alan Smith Optometrist
Optometrist, http://www.asmithopticians.com/

IF THIS TEST CHART WAS ANY MORE MODERN, IT WOULDN'T HAVE BEEN INVENTED YET!
It contains all the usual testing screens, with special additions for children such as pictures and cartoons. It really is something quite special.

Lee Dray
Dispensing Optician - Owner, http://www.drays-eyecare.co.uk/

I've been designing the Open Optometry Test Chart since 2013. I was frustrated with not having a Chart that would work on open source operating systems such as linux or on my android phone/tablet, so I decided to build my own. However, it has been very time consuming and costly to do.

I first heard of the COF at a local optical committee meeting in 2016, and initially I thought it would be unlikely that I would get help from the fund. I decided to send an email and the reply I got back was very encouraging. Roy from The Central Optical Fund, has been really supportive in helping me put together my proposal. The time it takes to maintain the website and program can be extreme with me working into the early hours of the morning, even after a long day doing the day job. Without their help I doubt that I could continue to offer the chart to my fellow professionals as a free version. They asked me how much it would cost to do the separate coding tasks to improve the chart and take it to the next level. Once I had filled my application in and attached this additional information, the grant was authorized surprising quickly. The whole process must have only been a couple of months.

The extra funding that has been made available has got me very excited about the future of Open Optometry and hopefully the next version of our highly functional standardised chart will be available for everyone very soon.

If you have a project that will help forward the profession of optometry, I would highly recommend contacting the Central Optical Fund. They have been amazing.

Thank You COF!

Iain Mellis