# COMPX221-19A

Assignment 3 - Data Visualization

Kelvin David
1345360

Design Description

My design for Data Visualiztion was kept simple and concise vowing for using bar graphs, web graphs and simple color changing bars to represent all of the data needed. The navigation was also kept simple using buttons as the standard form of control, allowing users to navigate around the site and cycle through of the dates of each data set.

The prime reason for the simpicity was due to an inability to be able to complete my first idea due to running into memory errors. So because of time restraint this simple design was chosen as it showed a good amount of information and allowed for more interactivity than normal.

One of the design aspects that I believe stand out would be the spider graph that shows the link between the three main float data. This idea was inspired from a graph shown in a game that recorded playstyle, it's effectivness is that it can show which element affects the other by looking at the webs shape. Extreme cases will show a large web area, while outliers can be shown by a spike shape.

=== LakeData Visulization ===

=== LAKE OHAU ===
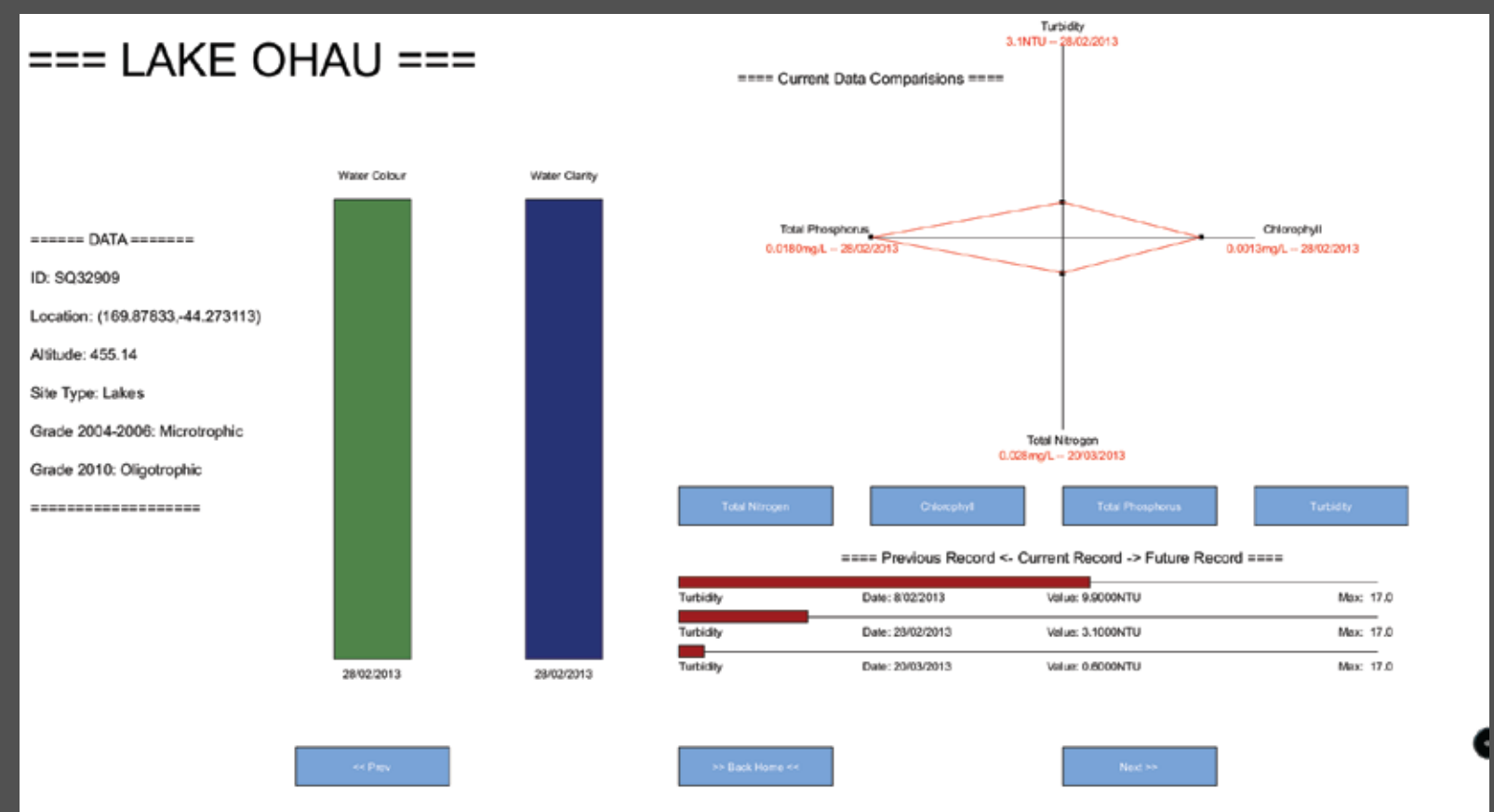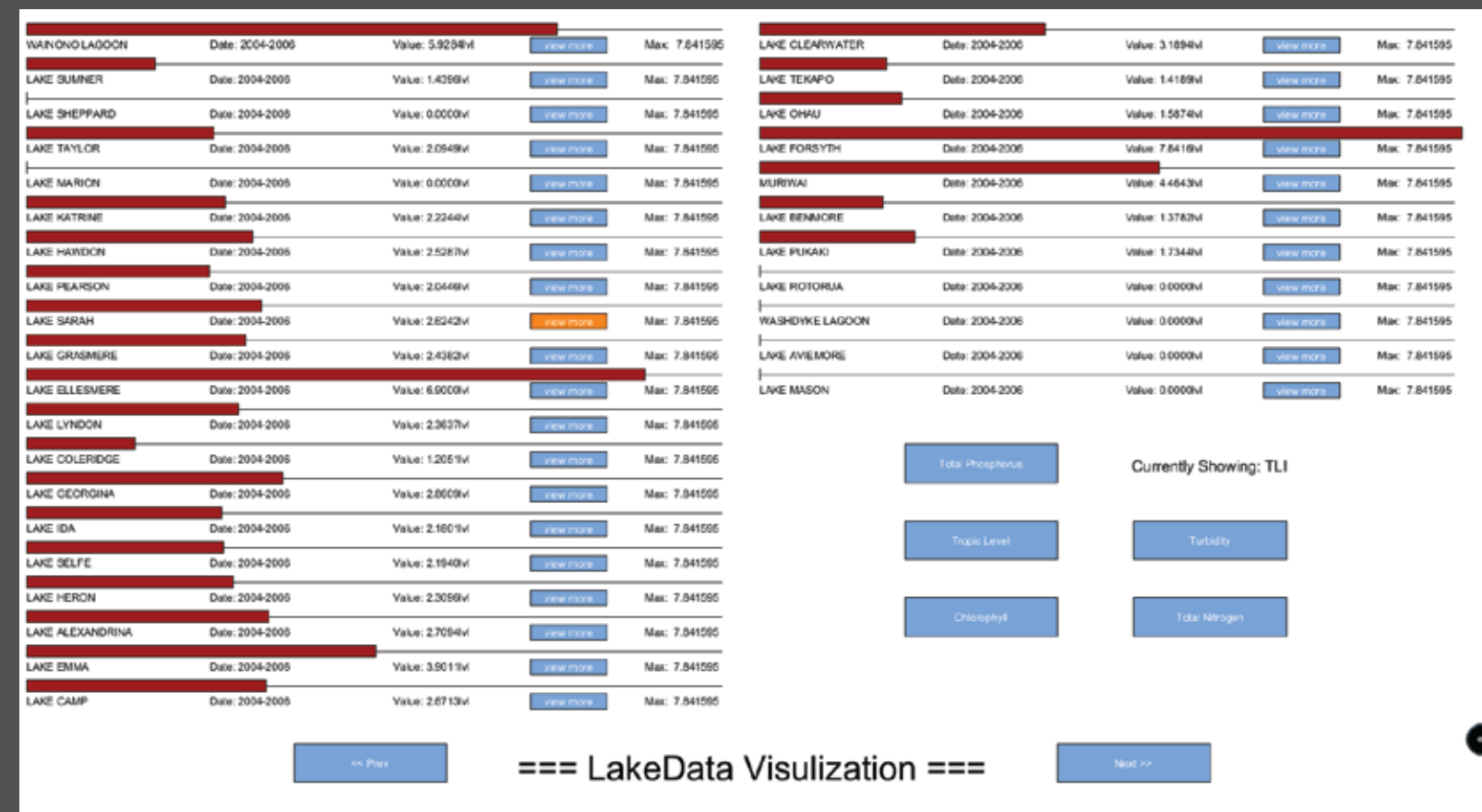
Design Screenshots
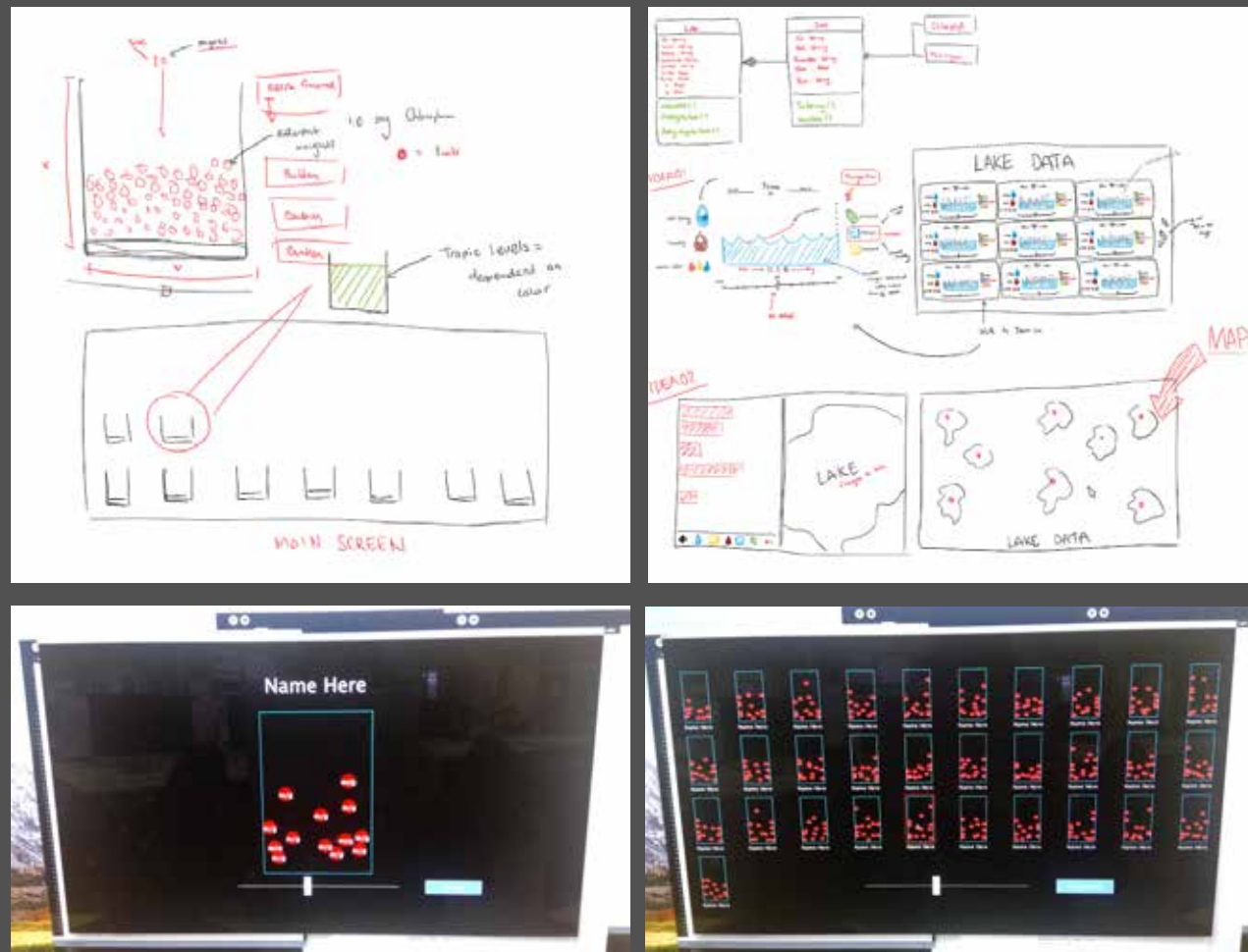
Original Unfinished Design
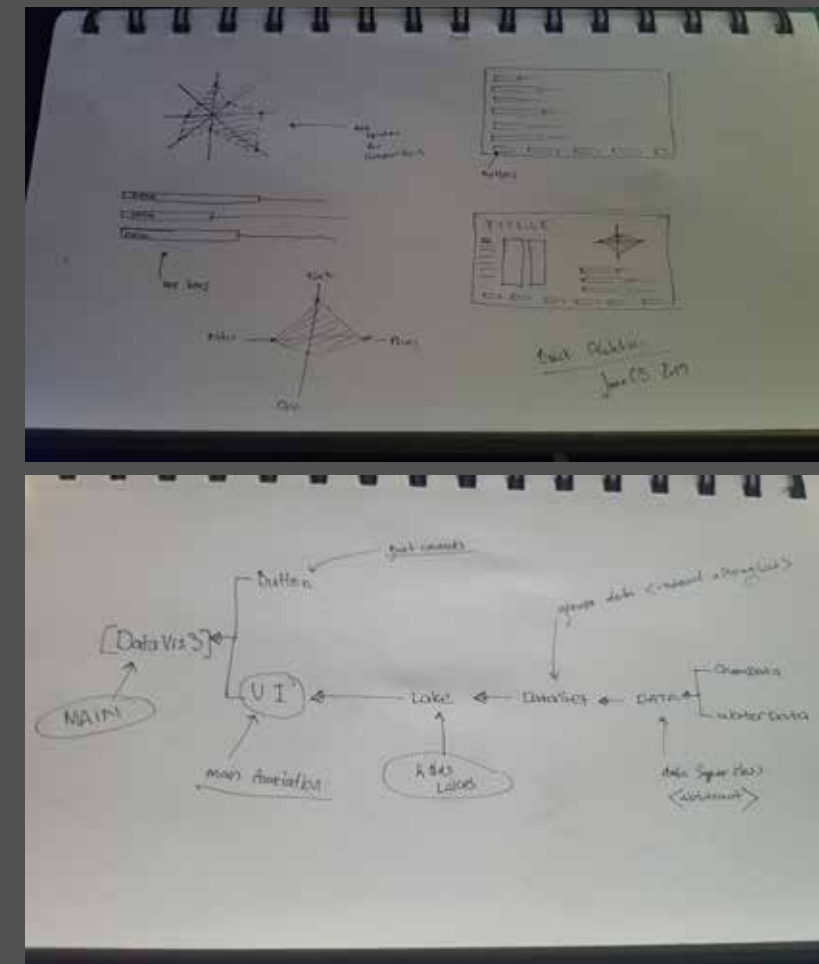
Quick Sketches for Current Design

Reference Inspiration

Lake	Date	Value		Max
WAINONO LAGOON	Date: 2004-2006	Value: 5.9284lvl	view more	Max: 7.841595
LAKE SUMNER	Date: 2004-2006	Value: 1.4396lvl	view more	Max: 7.841595
LAKE SHEPPARD	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595
LAKE TAYLOR	Date: 2004-2006	Value: 2.0949lvl	view more	Max: 7.841595
LAKE MARION	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595
LAKE KATRINE	Date: 2004-2006	Value: 2.2244lvl	view more	Max: 7.841595
LAKE HAWDON	Date: 2004-2006	Value: 2.5287lvl	view more	Max: 7.841595
LAKE PEARSON	Date: 2004-2006	Value: 2.0446lvl	view more	Max: 7.841595
LAKE SARAH	Date: 2004-2006	Value: 2.6242lvl	view more	Max: 7.841595
LAKE GRASMERE	Date: 2004-2006	Value: 2.4382lvl	view more	Max: 7.841595
LAKE ELLESMERE	Date: 2004-2006	Value: 6.9000lvl	view more	Max: 7.841595
LAKE LYNDON	Date: 2004-2006	Value: 2.3637lvl	view more	Max: 7.841595
LAKE COLERIDGE	Date: 2004-2006	Value: 1.2051lvl	view more	Max: 7.841595
LAKE GEORGINA	Date: 2004-2006	Value: 2.8609lvl	view more	Max: 7.841595
LAKE IDA	Date: 2004-2006	Value: 2.1801lvl	view more	Max: 7.841595
LAKE SELFE	Date: 2004-2006	Value: 2.1940lvl	view more	Max: 7.841595
LAKE HERON	Date: 2004-2006	Value: 2.3096lvl	view more	Max: 7.841595
LAKE ALEXANDRINA	Date: 2004-2006	Value: 2.7094lvl	view more	Max: 7.841595
LAKE EMMA	Date: 2004-2006	Value: 3.9011lvl	view more	Max: 7.841595
LAKE CAMP	Date: 2004-2006	Value: 2.6713lvl	view more	Max: 7.841595

Lake	Date	Value		Max
LAKE CLEARWATER	Date: 2004-2006	Value: 3.1894lvl	view more	Max: 7.841595
LAKE TEKAPO	Date: 2004-2006	Value: 1.4189lvl	view more	Max: 7.841595
LAKE OHAU	Date: 2004-2006	Value: 1.5874lvl	view more	Max: 7.841595
LAKE FORSYTH	Date: 2004-2006	Value: 7.8416lvl	view more	Max: 7.841595
MURIWAI	Date: 2004-2006	Value: 4.4643lvl	view more	Max: 7.841595
LAKE BENMORE	Date: 2004-2006	Value: 1.3782lvl	view more	Max: 7.841595
LAKE PUKAKI	Date: 2004-2006	Value: 1.7344lvl	view more	Max: 7.841595
LAKE ROTORUA	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595
WASHDYKE LAGOON	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595
LAKE AVIEMORE	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595
LAKE MASON	Date: 2004-2006	Value: 0.0000lvl	view more	Max: 7.841595

Total Phosphorus

Currently Showing: TLI

Tropic Level

Turbidity

Chlorophyll

Total Nitrogen

<< Prev

=== LakeData Visulization ===

Next >>

=== LAKE OHAU ===

====== DATA ======

ID: SQ32909

Location: (169.87833,-44.273113)

Altitude: 455.14

Site Type: Lakes

Grade 2004-2006: Microtrophic

Grade 2010: Oligotrophic
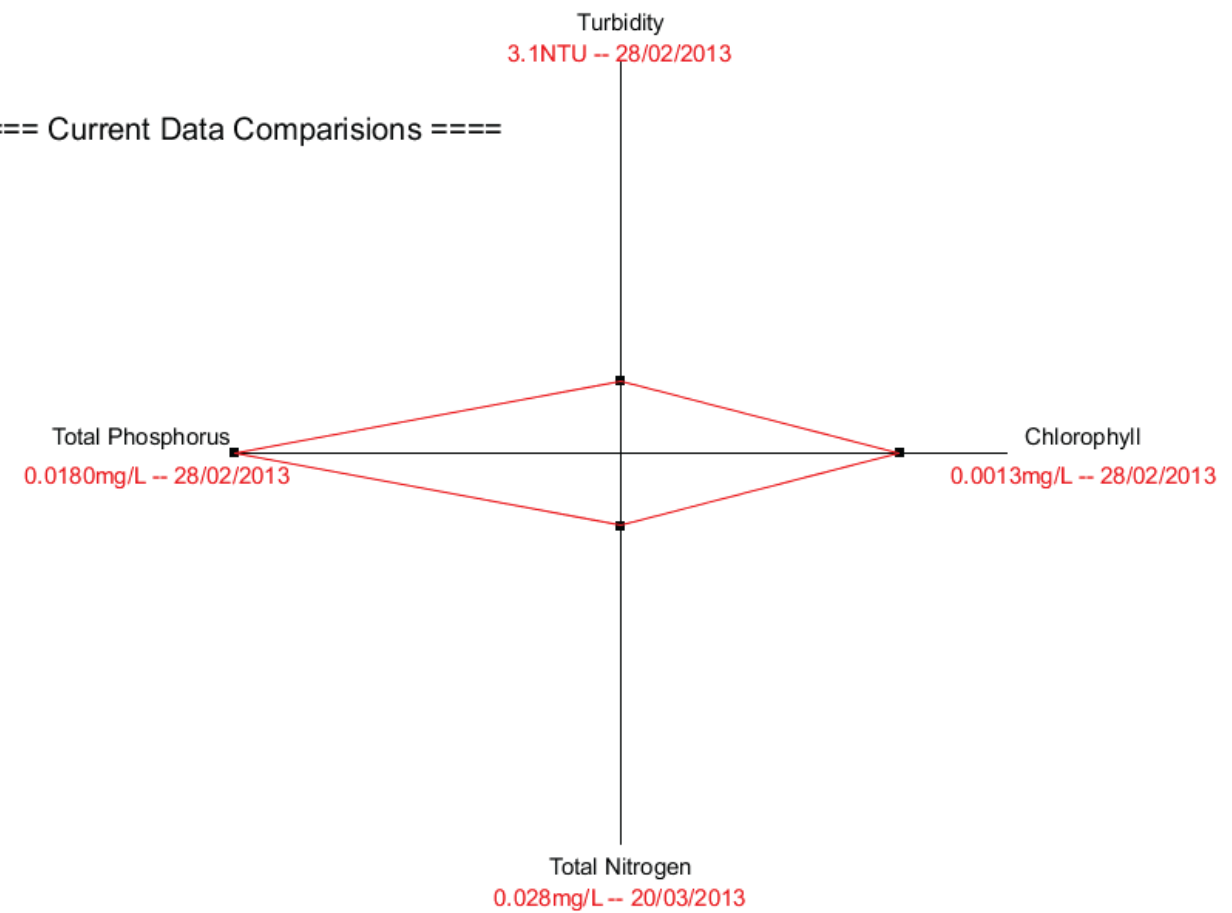
==================

Water Colour

Water Clarity

28/02/2013

28/02/2013

==== Current Data Comparisions ====

Turbidity
3.1NTU -- 28/02/2013

Total Phosphorus
0.0180mg/L -- 28/02/2013

Chlorophyll
0.0013mg/L -- 28/02/2013

Total Nitrogen
0.028mg/L -- 20/03/2013

| Total Nitrogen | Chlorophyll | Total Phosphorus | Turbidity |

==== Previous Record <- Current Record -> Future Record ====

Turbidity	Date: 8/02/2013	Value: 9.9000NTU	Max: 17.0
Turbidity	Date: 28/02/2013	Value: 3.1000NTU	Max: 17.0
Turbidity	Date: 20/03/2013	Value: 0.6000NTU	Max: 17.0

| << Prev | >> Back Home << | Next >> |

References

No known References used for final Code

Data Visualization image
How to Use Data Visualization to Make Your Report Design Memorable. (2018, March 01). Retrieved from https://www.columnfivemedia.com/how-to-data-visualization-report-design

Spider graph image was snipped from my personal League of Legends launcher (cannot APA reference this)