

Design Score Report

Eye-Tracking based Insights

Agenda

This report contains:

- 1. Purpose of the study
- 2. Methodology
- 3. Study results
- 4. Summary
- 5. Appendix methodology





Purpose - Design Analysis

Provide eye-tracking analysis for 3 billboard creatives to find out **which parts of them grab viewers attention most** and match design expectations.

This is based on chosen by customer Areas Of Interest (AOIs) - it may be performed even before launching a campaign.





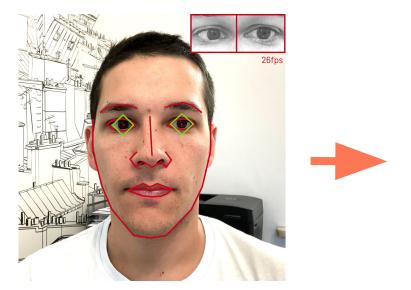


AOIs & their wages for chosen creatives: iPhone, Samsung S10 "White", Samsung S10+ "Black"



Methodology - Eye-Tracking

RealEye register all the **testers gaze-points** while they're watching the creatives, using regular webcams. Set of gaze-points allow us to calculate **Design Score**.



Eye-tracking algorithm



Gaze points presented on a sample creation



Methodology - Design Analysis

The **Design Score** is based on expected **exposure time vs. real exposure time** for chosen areas. The design score is higher the smaller the difference between expected vs real exposure times.

RealEye sums up and normalizes all AOIs offsets to calculate the **Design Score**.

example (read more in appendix)



Expected exposure time



Real data exposure time

$$|10\% - 3\%| = 0.07$$

$$S = 1 - (0.07 + 0.12 + 0.06)/2 =$$

87.5%



Methodology - Glossary

- **AOI Area Of Interest**, an area for which eye-tracking data is calculated (i.e. total time spent looking at this particular area).
- Expected exposure time expected time for a given area to be viewed (% of total time).
- Real exposure time real time that a given area was viewed (% of total time).
- Design Score total score for a given design; it describes how close the design is to the expectations.

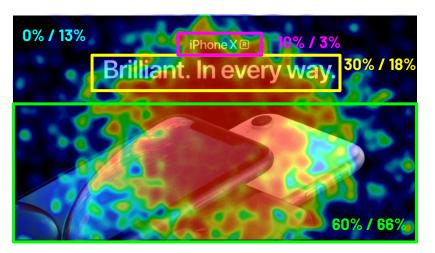


Design Score Results

Analysis made on N = 150 testers



Design Results - iPhone X



Expected vs Real exposure time (% of total time)

This billboard fulfills assumed expectations satisfactorily. **It's score is in the high range**.

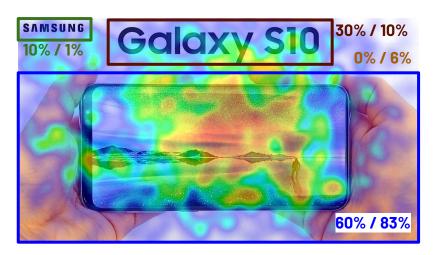
- Visual part was noticed as planned
- Claim "Brilliant. In every way" got ~12ppt less attention than expected,
- The brand got only 3% of attention while the desired level was on 10%,

Potential improvements: brand and claim visibility should be improved by making it bigger

Design Score Calculation



Design Results - Samsung S10 "White"



Expected vs Real exposure time (% of total time)

This billboard fulfills assumed expectations with **medium Score**.

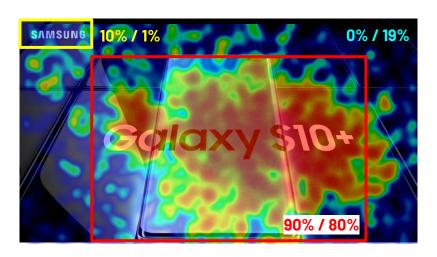
- The brand got only 1% of attention while the desired level was on 10%,
- Brand got 20ppt less attention than expected,
- Visual part was noticed more than planned and took attention from other parts

Potential improvements: brand visibility should be improved, "Galaxy S10" caption may be smaller to catch less attention

Design Score Calculation



Design Results - Samsung S10+ "Black"



Expected vs Real exposure time (% of total time)

This billboard highly fulfills assumed expectations.

The design score falls in the top range.

- Visual part was noticed almost as highly as planned with 10ppt offset,
- The logotype got only 1% of attention while the desired level was on 10%,

Potential improvements: boosting Samsung logotype visibility by increasing its size.

Design Score Calculation

|10% - 1%| = 0.09

■ |90% - 80%| = 0.1

background score

Design Score = 1-(0.09+0.1)/2 = 90.5%



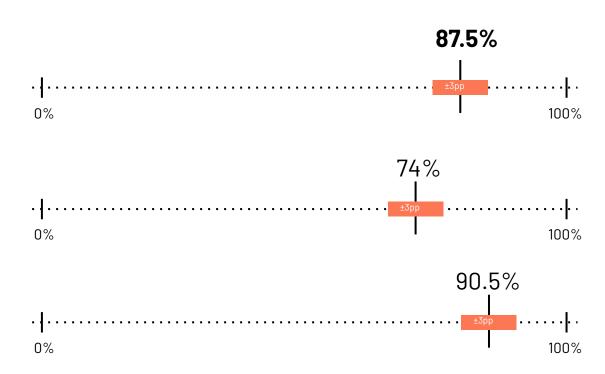
Design Results - summary

Design Score for all creatives compared to each other











Conclusions

- All 3 creatives Scored above average level and all are definitely fulfilling assumed expectations - viewers are noticing all key parts of them with ease,
- **Samsung "Black"** Design Score is 90.5% which means that the information architecture was made really well in comparison to design expectations,
- all 3 billboards had an expectation to expose brand at 10% of view time but **none of them got higher result than 3%** maybe expectation was not defined well.



iPhone X

Galaxy \$10



Samsung S10 "White"

Samsung S10+ "Black"



Appendix: Methodology - Design Analysis

The **Design Score** [S] is calculated using an equation below:

$$S = 1 - \frac{\sum_{1}^{N} S_n}{2}$$

$$S_n = |expected time [0; 1] - real time [0; 1]|$$

- → Sn Score of given AOI
- → S Design Score is a score of all AOI's summed up for a studied design and normalized
- → expected (exposure) time time a designer expect for a given element to be viewed
- real (exposure) time average time per view multiplied by percent of testers who have seen the given area expressed as a percent of a total time of the study (i.e. for 4 seconds study and 50 testers the whole study time is 200).

Contact us



We'll be happy to answer your questions!

contact@realeye.io