# Performance Analysis of African News Web Sites

CS641-Mobile Web Content

Jie Pang (jp00701n@pace.edu)

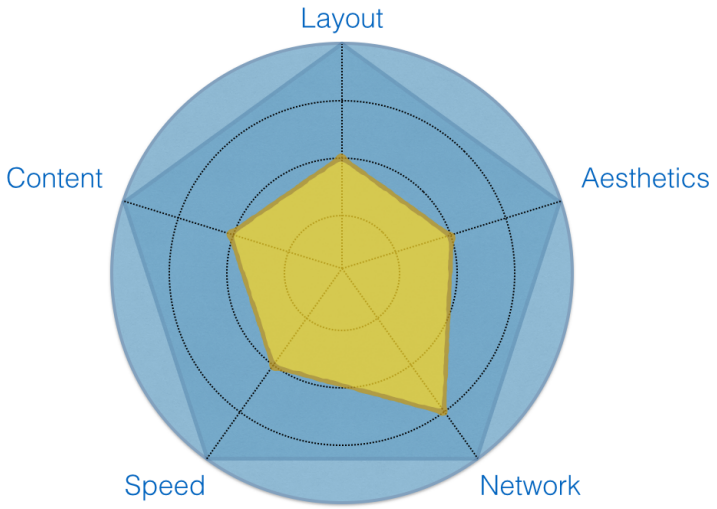
Yue Hong (yh19243n@pace.edu)

April 09, 2015

❖ Evaluation (both desktop and mobile experiences are evaluated)

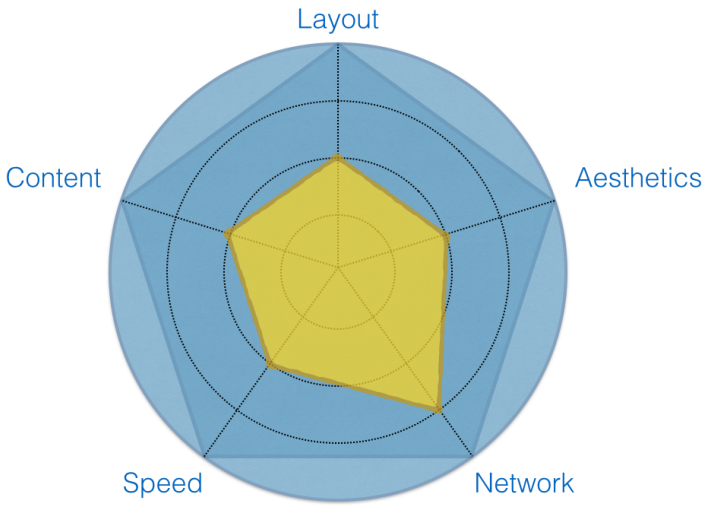
**http://seneweb.com**

| Attributes | Details | Check |
|---|---|---|
| Content | Text Readable | ☐ |
| | Separate Alternations To The DOM | ☑ |
| | Optimize Image | ☐ |
| Speed | Page Loading | ☐ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| Network | Leverage Browers Caching | ☐ |
| | Enable Compression | ☑ |
| | Serve Response | ☑ |
| Aesthetics | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☐ |
| | Lv1 - Uniform Style | ☑ |



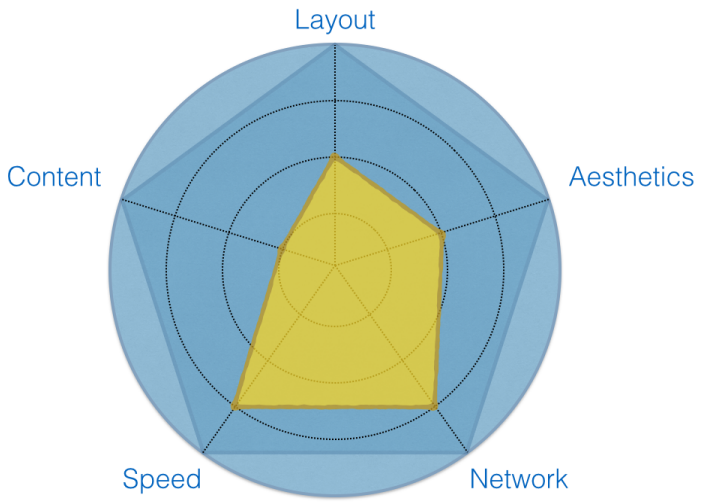

**www.aps.sn**

| Attributes | Details | Check |
|---|---|---|
| Layout | Define A View Port | ☐ |
| | Increasing Touch Target Size | ☐ |
| | Enable Zoom | ☑ |
| Content | Text Readable | ☐ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| Speed | Page Loading | ☐ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| Network | Leverage Browers Caching | ☐ |
| | Enable Compression | ☐ |
| | Serve Response | ☐ |
| Aesthetics | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☑ |
| | Lv1 - Uniform Style | ☑ |



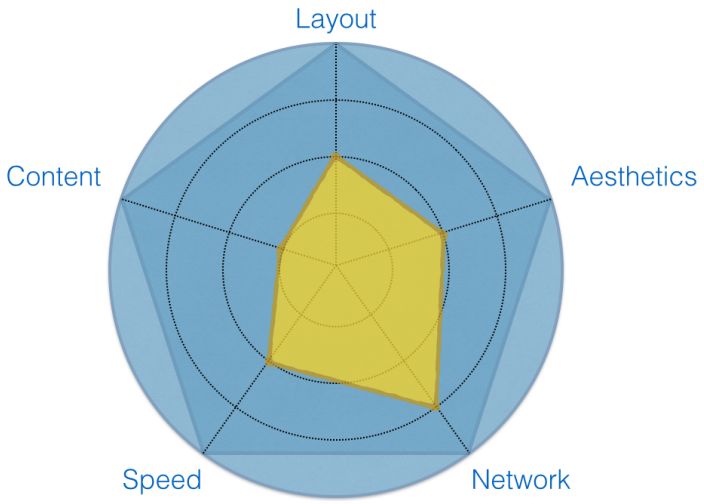
**dakaractu.com**

| Attributes | Details | Check |
|---|---|---|
| **Layout** | Define A View Port | ☐ |
| | Increasing Touch Target Size | ☐ |
| | Enable Zoom | ☑ |
| **Content** | Text Readable | ☐ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| **Speed** | Page Loading | ☑ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| **Network** | Leverage Browers Caching | ☐ |
| | Enable Compression | ☑ |
| | Serve Response | ☑ |
| **Aesthetics** | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☐ |
| | Lv1 - Uniform Style | ☑ |



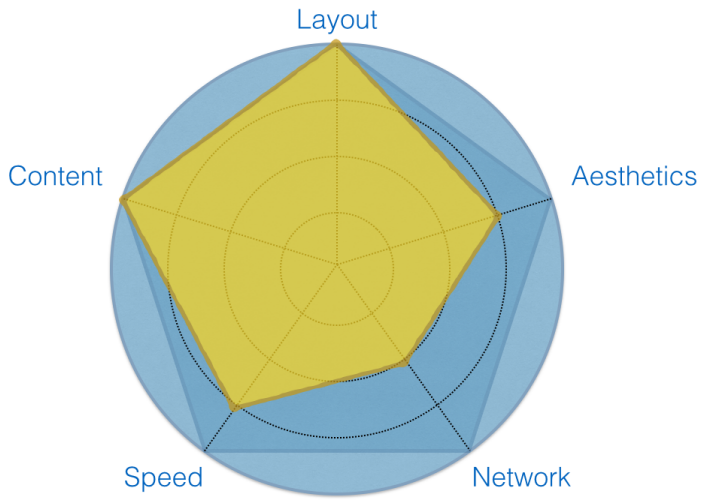

**leral.net**

| Attributes | Details | Check |
|---|---|---|
| **Layout** | Define A View Port | ☐ |
| | Increasing Touch Target Size | ☐ |
| | Enable Zoom | ☑ |
| **Content** | Text Readable | ☐ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| **Speed** | Page Loading | ☐ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| **Network** | Leverage Browers Caching | ☐ |
| | Enable Compression | ☑ |
| | Serve Response | ☑ |
| **Aesthetics** | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☐ |
| | Lv1 - Uniform Style | ☑ |



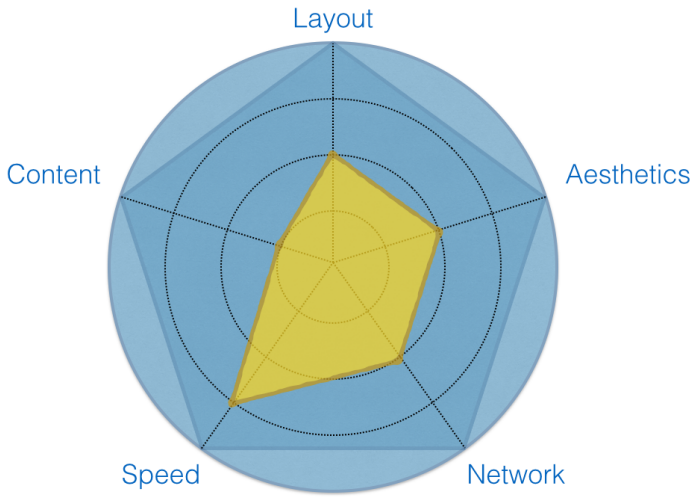
**senenews.com**

| Attributes | Details | Check |
|---|---|---|
| **Layout** | Define A View Port | ☑ |
| | Increasing Touch Target Size | ☑ |
| | Enable Zoom | ☑ |
| **Content** | Text Readable | ☑ |
| | Separate Alternations To The DOM | ☑ |
| | Optimize Image | ☑ |
| **Speed** | Page Loading | ☑ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| **Network** | Leverage Browers Caching | ☐ |
| | Enable Compression | ☐ |
| | Serve Response | ☑ |
| **Aesthetics** | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☑ |
| | Lv1 - Uniform Style | ☑ |



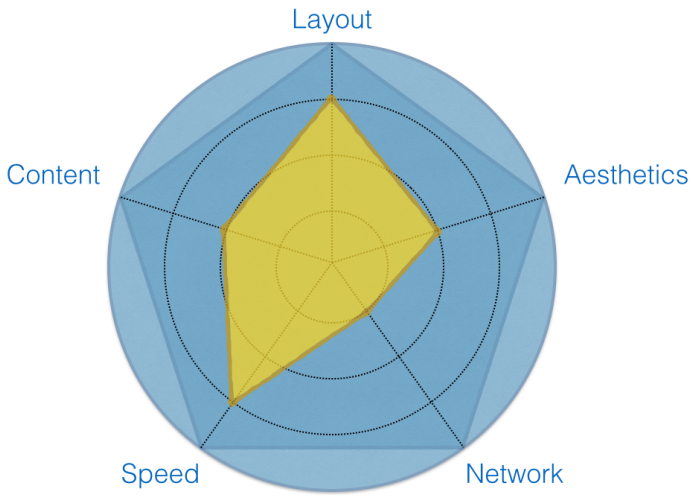

**xalima.com**

| Attributes | Details | Check |
|---|---|---|
| **Layout** | Define A View Port | ☐ |
| | Increasing Touch Target Size | ☐ |
| | Enable Zoom | ☑ |
| **Content** | Text Readable | ☐ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| **Speed** | Page Loading | ☑ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| **Network** | Leverage Browers Caching | ☐ |
| | Enable Compression | ☐ |
| | Serve Response | ☑ |
| **Aesthetics** | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☐ |
| | Lv1 - Uniform Style | ☑ |



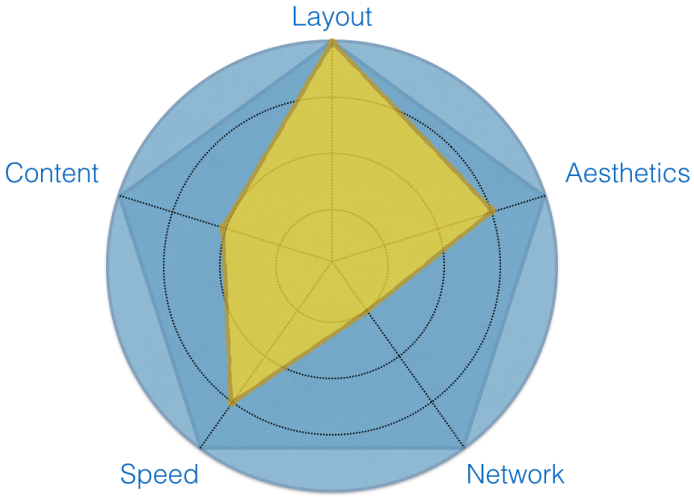
http://carrapide.com/xibar/?feature=simplehome1

| Attributes | Details | Check |
|---|---|---|
| Layout | Define A View Port | ☑ |
| | Increasing Touch Target Size | ☑ |
| | Enable Zoom | ☐ |
| Content | Text Readable | ☑ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| Speed | Page Loading | ☑ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| Network | Leverage Browers Caching | ☐ |
| | Enable Compression | ☐ |
| | Serve Response | ☐ |
| Aesthetics | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☐ |
| | Lv1 - Uniform Style | ☑ |




http://en.afriqueitnews.com/

| Attributes | Details | Check |
|---|---|---|
| Layout | Define A View Port | ☑ |
| | Increasing Touch Target Size | ☑ |
| | Enable Zoom | ☑ |
| Content | Text Readable | ☑ |
| | Separate Alternations To The DOM | ☐ |
| | Optimize Image | ☐ |
| Speed | Page Loading | ☑ |
| | CSS, JS Loading | ☐ |
| | Feedback Speed | ☑ |
| Network | Leverage Browers Caching | ☐ |
| | Enable Compression | ☐ |
| | Serve Response | ☐ |
| Aesthetics | Lv3 - Grace | ☐ |
| | Lv2 - Color Matching | ☑ |
| | Lv1 - Uniform Style | ☑ |



❖ Analysis

➢ challenges

The majority of African news websites are not user-friendly on mobiles. For example, the content is not readable and the touch target size is too small. And the loading speed and response speed is rather unsatisfied, either.

➢ best case

Senenews.com

➢ Recommendations:

Since 70% of internet access in Africa is through mobile, the web sites should focus on their performance on the phone.

- Define a viewport
- Make text readable
- Increase touch target size
- Leverage browser caching
- Eliminate render-blocking JavaScript and CSS in above-the-fold content
- Compressing resources with gzip or deflate to reduce the number of bytes sent over the network.
- Properly formatting and compressing images for higher loading speed

❖ Appendix - Evaluation Criteria

| Attributes | Details | Check | Description |
|---|---|---|---|
| **Layout** | Define A View Port | ☑ | <meta name="viewport" content="width=device-width,initial-scale=1"> |
| | Increasing Touch Target Size | ☑ | 7mm/48px minimum size, 7mm padding if near other touchable areas |
| | Enable Zoom | ☑ | <meta name="viewport" content="width=device-width,initial-scale=1,~~minimum-scale=1,maximum-scale=1,user-scalable=no~~"> |
| **Content** | Text Readable | ☑ | 16pt Minimum & Increase Contrast |
| | Separate Alternations To The DOM | ☑ | Loading Page Separately |
| | Optimize Image | ☑ | Properly formatting and compressing images can save many bytes of data. |
| **Speed** | Page Loading | ☑ | The whole page loading speed |
| | CSS, JS Loading | ☑ | Eliminate render-blocking JavaScript and CSS in above-the-fold content |
| | Feedback Speed | ☑ | Feedback needs to be instant, and will visually confirm the user's actions. |
| **Network** | Leverage Browers Caching | ☑ | Setting an expiry date or a maximum age in the HTTP headers for static resources instructs the browser to load previously downloaded resources from local disk rather than over the network. |
| | Enable Compression | ☑ | Compressing resources with gzip or deflate can reduce the number of bytes sent over the network. |
| | Serve Response | ☑ | Server response time measures how long it takes to load the necessary HTML to begin rendering the page from your server |
| **Aesthetics** | Lv3 - Grace | ☑ | Good visual design |
| | Lv2 - Color Matching | ☑ | No color conflicts |
| | Lv1 - Uniform Style | ☑ | The uniform font, not too many ads |