

# Improving Web Accessibility with PleaseDoNotAccess.io

---

CS489 Team 5

20180608 Wonbin Jung  
20190376 Jisoo Yang  
20190115 Seoyoung Kim

# Contents

1. Problem Definition

2. Further Plans

# Problem Definition

## Website Accessibility

- “the inclusive practice of ensuring there are no barriers that prevent interaction with, or access to, websites on the World Wide Web by people with **physical disabilities, situational disabilities**, and socio-economic restrictions on **bandwidth and speed**.”

# Problem Definition

What cases should be considered in Web Accessibility?

- Visual: Low vision, Color weakness
- Motor / Mobility: Motor disorders
- Auditory: Hearing impairment
- Seizures: Photosensitivity, Sensitive images
- Cognitive: Cognitive and learning disabilities

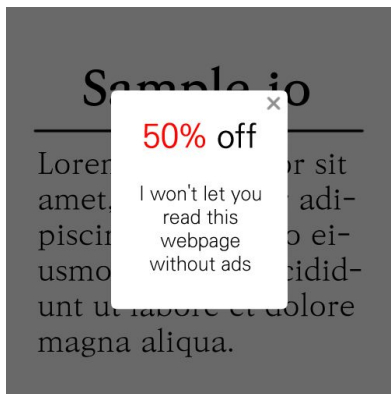
# Problem Definition

What tools are available to improve visual Web Accessibility?

- Screen readers
- Screen zoom
- Voice / Speech to text
- Keyboard overlay

# Problem Definition

Pop-ups cause problem in visual accessibility



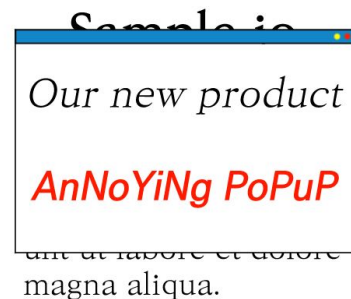
Lightbox



Floating bar



Chat pop-up



New window

# Problem Definition

Pop-ups cause problem in visual accessibility

- Changes order between page contents (disrupts Screen Readers)
- Restrict the flow of attention (disrupts screen zoom)
- Hard to close (small, unnamed buttons)



← Design intention

- ① Recognize pop-up
- ② Click close button
- ③ Read web page

Screen readers →  
Read from top → bottom  
(not in the order where  
the contents are shown)

HTML:

```
...  
<div class = "title" > nple.io </div>  
<div class = "body"> 1. ... </div>  
<div class = "adbox"> ... </div>  
<div class = "body"> 2. ... </div>  
...
```

style: z-index=  
1000000

# Problem Definition

Some tools to block such pop-up ads exist

- Still, they cannot cover every ads
- Mainly disable Google AdSense
- Other pop-ups and ads may not be blocked





# Plan 1: Pop-up Detector

To avoid pop-up notifications that interrupt the flow of screen-reading and user vision, we will develop a pop-up detector.

- It is designed to change the layer order of a pop-up notification or highlight its close button (x-button).
- This z-index-based solution also works for pop-ups not filtered by Adblock.

## Plan 1: P

To avoid po  
user vision,

- It is des
  - highlight
  - This z-i
- Adbloc



Your Email

**SUBSCRIBE**

[No thanks, I'll pay full price](#)

ading and

tion or

ed by

# Plan 2: PleaseDoNotAccess.io

We plan to develop **PleaseDoNotAccess.io**, an experience of the web page with the worst accessibility.

- Inspired by [User Interface - A worst-practice UI experiment](#)
- Users can experience several elements that ruin accessibility.
- It also provides simple solutions (e.g. our pop-up detector) or tips to improve the accessibility for each element.
- It might contain a vote for the worst element and its ranking table.

## Plan 2: PleaseDoNotAccess.io

We plan to develop **PleaseDoNotAccess.io**, an experience of the web page with the worst accessibility.

- Inspired by [User Interface - A worst-practice UI experiment](#)
- Users can experience several elements that ruin accessibility.
- It also provides simple solutions (e.g. our pop-up detector) or tips to improve the accessibility for each element.
- It might contain a vote for the worst element and its ranking table.

# References

[1] NULI,

<https://nuli.navercorp.com/>

[2] Google Lighthouse,

<https://chrome.google.com/webstore/detail/lighthouse/blipmdconlkpinefehnmjammfjpmpbjk/>

[3] Wikipedia, Web Accessibility,

[https://en.wikipedia.org/wiki/Web\\_accessibility](https://en.wikipedia.org/wiki/Web_accessibility)

Question/Comment: [santabin@kaist.ac.kr](mailto:santabin@kaist.ac.kr)