An effective approach for helping children assess website risk is to provide an environment in which children can better assess a website’s features and determine for themselves the risk of accessing the site. We constructed a website visualization system by operating search facets for websites’ appearance and structure.

**Website Visualization System**

**Database**
- 13,386 websites with 11 attributes for search facets
  - action, color, atmosphere, layout, average page length, total number of images, total number of links, total number of pages, font most often used, average font size, total number of letters
- 4 risk level
  - level 1: websites from kids’ portal site (safe)
  - level 2: websites from general portal site from categories needing money sense
  - level 3: websites for adults or with published warnings (risky)

**Visualization**
- Each top page image is bordered with different color according to risk level
- Top page for each retrieved website is displayed inside rings
- Continuous attributes: each point of key ring is determined as different search key
- Discrete attributes: display subsequent results by splitting range of search key

**Children**
- Can better assess a website’s features and determine for themselves the risk of accessing the site
- Can manipulate the system by themselves
- Really enjoy searching and browsing

**Possibilities of this visualization method**
- Not only to help assess website risks for children but also to analyze websites for adults
- Check children’s actions in web browsing
- Find problematic unofficial websites for school

**Usability Test**
- 12-year-old boy with his mother and two 18-year-old girls
- For getting information, shopping, talking, with friends
- But increasing cybercrimes which children get in trouble

**What’s it for?**

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