

Cyber Range Scenarios (CRS2)

November 8 - Justine Ramelot

Who am I?

- Justine Ramelot
- Research assistant
- August 22, 2022
- Cyber Range Scenarios (CRS2) : generate the most realistic and appropriate training scenarios possible
- Cyber Range: a real-world simulation platform that allows security teams to train (attack and defense), develop their expertise, and manage their human resources planning
- UX team

Prospect Day at Redu on September 23rd

- Cybersecurity Awareness training material
 - Walking through the material allows us to get familiar with jargon, basic learning objectives, key user/trainer tasks
 - Focus on the experience of both trainees and trainers
- Live demos of CITEF and CIRP
 - Two primary tasks: creating a scenario (CITEF) and encoding a ticket (CIRP)
 - Sequences of steps + live comments → understanding of key processes
 - Q&A → how users think about their job + jargon



Compliance with guidelines formulated across 4 criteria: relevance of guideline, respect, recommendation, certainty

Shneiderman & Leavitt (2006)

Research-based usability guidelines-Justine - Excel

Justine Ramelot

Fichier Accueil Insertion Dessin Mise en page Formules Données Révision Affichage Aide Dites-nous ce que vous voulez faire Partager

	A	B	C	D	E	F	G	H	I	J
	Retenu	Respecté	Recommandation	Certitude	Justification	Guideline	Grouping	Guideline heading	Importanc	Evidence
1	?	Must	100	Important de rendre CITE 3:1	Accessibility	Comply with Section 508	5	2		
2	?	Must	100	Pas de formulaire en ligne 3:2	Accessibility	Design Forms for Users Using Assistive Technologies	5	2		
3	100	Must	100	Important pour les perso 3:3	Accessibility	Do Not Use Color Alone to Convey Information	5	4		
4				Pas de liens de navigatic 3:4	Accessibility	Enable Users to Skip Repetitive Navigation Links	4	2		
5				Pas besoin de texte alteri 3:5	Accessibility	Provide Text Equivalents for Non Text Elements	4	2		
6				Est ce que des personnes 3:6	Accessibility	Test Plug-Ins and Applets for Accessibility	4	2		
7				Est ce que des personnes 3:7	Accessibility	Ensure that Scripts Allow Accessibility	3	2		
8				Est ce que des personnes 3:8	Accessibility	Provide Equivalent Pages	3	2		
9				Pas besoin d'images cliqu 3:9	Accessibility	Provide Client-Side Image Maps	3	3		
10				Pas d'éléments multiméd 3:10	Accessibility	Synchronize Multimedia Elements	3	2		
11				Pas de style sheets utilisé 3:11	Accessibility	Do Not Require Style Sheets	3	1		
12	75	Must	100	Même si ce n'est pas une 3:12	Accessibility	Provide Frame Titles	2	2		
13	?	Must	100	La fréquence des écrans € 3:13	Accessibility	Avoid Screen Flicker	2	1		
14				Homepage = page avec to 5:1	The Homepage	Enable Access to the Homepage	5	3		
15	Oui	Must	100	Si homepage = page de tc 5:2	The Homepage	Show All Major Options on the Homepage	5	2		
16				Pas de homepage - même 5:3	The Homepage	Create a Positive First Impression of Your Site	5	4		
17				Pas de homepage - pas de 5:4	The Homepage	Communicate the Web Site's Value and Purpose	4	3		
18				Pas de homepage - pas de 5:5	The Homepage	Limit Prose Text on the Homepage	4	3		
19				Pas de homepage 5:6	The Homepage	Ensure the Homepage Looks like a Homepage	4	4		
20				La homepage affiche tous 5:7	The Homepage	Limit Homepage Length	3	2		
21	?	Should		Dire les changements lors 5:8	The Homepage	Announce Changes to a Web Site	2	2		
22	Oui	Must	100	distinction entre homopa 5:9	The Homepage	Attend to Homepage Panel Width	2	3		
23	Oui	Must	100	pages pas encombrées 6:1	Page Layout	Avoid Cluttered Displays	5	3		
24	Oui	Should	100	important items placés d 6:2	Page Layout	Place Important Items Consistently	5	4		
25	Oui	Should	100	importants items placés € 6:3	Page Layout	Place Important Items at Top Center	5	4		
26	Oui	Must	100	dans la homepage avec tc 6:4	Page Layout	Structure for Easy Comparison	4	4		
27	Oui	Must	100	dans la création de scén 6:5	Page Layout	Establish Level of Importance	4	3		
28	Non	Must	100	les pages ne sont pas sur 6:6	Page Layout	Optimize Display Density	4	3		
29	Oui	Must	100							

Prêt

Sheet1 CITEF CIRP Feuil2 Idées Feuil1 Méthodo

90%

Examples: guidelines respected

Grouping	Guideline heading	Importance	Evidence
Accessibility	Do Not Use Color Alone to Convey Information	5	4
Text Appearance	Use Familiar Fonts	3	5



Example: guideline partly respected

Grouping	Guideline heading	Importance	Evidence
Lists	Format Lists to Ease Scanning	4	4



Examples: guidelines not respected

Grouping	Guideline heading	Importance	Evidence
Scrolling and Paging	Eliminate Horizontal Scrolling	5	4
Screen-Based Controls (Widgets)	Distinguish Required and Optional Data Entry Fields	5	3



Example: guideline for which we are unsure

Grouping	Guideline heading	Importance	Evidence
Search	Make Upper- and Lowercase Search Terms Equivalent	4	2



Questionnaire under construction

CRS2 - Questions guidelines

Resume later

Language: English - English

0%

This survey is currently not active. You will not be able to save your responses.

Accessibility

*Are **CITEF and CIRP** also intended for people with disabilities (visual, movement, sound, learning) ?

Choose one of the following answers

Yes

No

Please enter your comment here:

Please justify your answer for CITEF and CIRP in this way :

CITEF : justification

CIRP : justification

Previous

Next

Next steps

- Survey research to complete the guideline analysis
 - Oct-Nov 2022 (survey, analysis, reporting)
 - 20 questions x 20-30 minutes x **10 participants**
- Formulation of (re)design ideas (Dec 2022)
- Test-and-refine of (re)design ideas (Dec 2022 – Feb 2023)
 - Low fidelity prototype (sketch) + informal online validation
 - Iterative and incremental improvement of the (re)design proposal and reporting



Thank you