

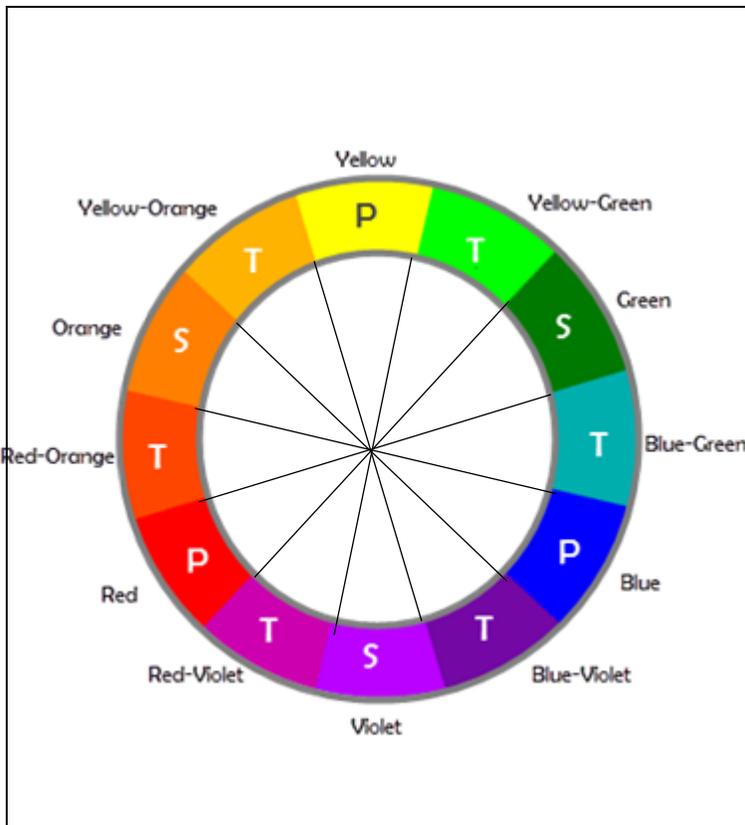
Full Name:

Mark:

Exercise 1 (6 Points): For each question, tick the right answer(s):

| | |
|--|--|
| <p>1. Among the HMI challenges we find:</p> <ul style="list-style-type: none"> - appearance of new interaction devices <input checked="" type="checkbox"/> - evolution of artificial intelligence <input type="checkbox"/> - increasing number of computer system users <input checked="" type="checkbox"/> - None <input type="checkbox"/> <p>2. The HMI solicits other disciplines such as:</p> <p>psychology <input checked="" type="checkbox"/> History <input type="checkbox"/> Linguistics <input checked="" type="checkbox"/> neurosciences <input checked="" type="checkbox"/> None <input type="checkbox"/></p> <p>3. Among the Gestalt laws we find:</p> <ul style="list-style-type: none"> - law of symmetry <input type="checkbox"/> - law of colour combination <input type="checkbox"/> - law of attraction <input type="checkbox"/> - None <input checked="" type="checkbox"/> | <p>4. Fitts's law states that the time required to reach a target is:</p> <ul style="list-style-type: none"> - proportional to the type of the object <input type="checkbox"/> - proportional to the location of the object <input type="checkbox"/> - proportional to the size of the object <input checked="" type="checkbox"/> - None <input type="checkbox"/> <p>5. Hick's law states that the time needed to make a decision increase with:</p> <p>the number of pages <input type="checkbox"/> the number of frames <input type="checkbox"/> the number of possible alternatives <input checked="" type="checkbox"/> None <input type="checkbox"/></p> <p>6. The choice of fonts must ensure that:</p> <ul style="list-style-type: none"> - the fonts are available on the user's computer <input checked="" type="checkbox"/> - the fonts are not very varied <input checked="" type="checkbox"/> - None <input type="checkbox"/> |
|--|--|

Exercise 2 (4 Points): Using the color wheel (chromatic circle) below, name at least four ergonomic color combinations and give an example for each of these combinations



1. Monochromatic
Example: Blue with its gradients
2. Analogous
Example: Red/ Red-Orange/ Orange
3. Complementary
Example: Green / Red
4. Double Complementary
Example: Green/ Red and Yellow/ Violet
5. Split Complementary
Example: Red/ Yellow-Green/ Blue-Green
6. Triad
Example: Red/ Blue/ Yellow

Exercise 3 (6 Points):

We have extracted the registration form below from a website. Identify the problems related to this form then propose another form that respect the different studied ergonomic rules.

Subscription form

First name:

 Birthday:

Last Name :

Age :

Sex:

Country:

Salary (in dollars):

Subscription form

First name:

Last Name :

Birthday:

Sex: M
F

Country:

Salary (in dollars):
reason behind this information

Found Problems

- The elements of this form are not aligned
- This form uses too many fonts
- The birthday must be placed after the last name
- We can remove the age because we can calculate it from the birthday
- Explain how to introduce the date (exp dd/mm/yyyy) or make the calendar component available to the user
- The sex and the country can be substituted by the components (button radio and combo box)
- We must explain to the user why we are asking for the salary since it is sensitive information
- The two buttons (Ok and Cancel) are too close, moreover it is preferable that the term 'ok' is replaced by a term which expresses the role of this button (subscribe).

Exercise 4 (4 Points):

Propose a basic web page Template and then mention the basic elements that each section (frame) can contain.

| | |
|-------------------------|--------------|
| Header | |
| Left panel (Sidebar) | Main section |
| Footer | |

Header: Logo or brand identifier. navigational elements. search.

Left panel (Sidebar): Contain navigation menus to quickly guide the visitors (links of some parts of the website or other webpages).

Main section: Dedicated to content, as this is the main value of the site. It can contain text, video, images, or any combination of the three!

Footer: authorship information, copyright information, contact information, sitemap, related websites.