Assumptions:

22 inch monitor, 1080p display, 600dpi mouse.

a=0.25s and b=0.125s

|  |  |  |  |
| --- | --- | --- | --- |
| Object | D | W | Mt |
| Image | 22cm | 13cm | 0.34 |
| “Home” | 24cm | 2.6cm | 0.65 |
| “Interests” | 18.2cm | 1cm | 0.77 |
| “Published” | 7.5cm | 0.5cm | 0.74 |
| “Students” | 10cm | 0.6cm | 0.76 |
| “Industry” | 11cm | 0.8cm | 0.72 |
| “My connections”, 1st link | 10.7cm | 2.4cm | 0.52 |
| “My connections”, 2nd link | 7cm | 1cm | 0.60 |
| “My connections”, 3rd link | 7.3cm | 0.6cm | 0.70 |
| “My papers” 1st link | 11cm | 0.4cm | 0.85 |
| “My papers” 2nd link | 10.8cm | 0.5cm | 0.80 |
| “My papers” 3rd link | 11.3cm | 0.6cm | 0.78 |

Website redesign: Assume same assumptions as previous table.

|  |  |  |  |
| --- | --- | --- | --- |
| Object | D | W | Mt |
| Image | 15cm | 5.5cm | 0.43 |
| “Home” | 15cm | 2cm | 0.61 |
| “Interests” | 14.5cm | 2cm | 0.61 |
| “Published” | 13.5cm | 2.2cm | 0.58 |
| “Students” | 14cm | 1.9cm | 0.61 |
| “Industry” | 14cm | 1.7cm | 0.63 |
| “My connections”, 1st link | 8.5cm | 1.3cm | 0.59 |
| “My connections”, 2nd link | 8.5cm | 1.5cm | 0.56 |
| “My connections”, 3rd link | 9cm | 0.8cm | 0.69 |
| “My papers” 1st link | 10.3cm | 0.5cm | 0.80 |
| “My papers” 2nd link | 11.5cm | 0.8cm | 0.73 |
| “My papers” 3rd link | 13cm | 0.4cm | 0.88 |

Green; Marks improvement from original design in expected motor movement time for the website

Red; Marks no improvement/worst result from original design in expected motor movement time for the website.

My thoughts are, that bringing all of the links closer together, making them slightly larger and bringing essential functional elements all closer to the centre of the screen reduce the overall Mt of the user, and therefore make the website more efficient to use. Though these changes decrease user movement time, it does give a more cramp impression of the website, since key elements are larger, and closer together.

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