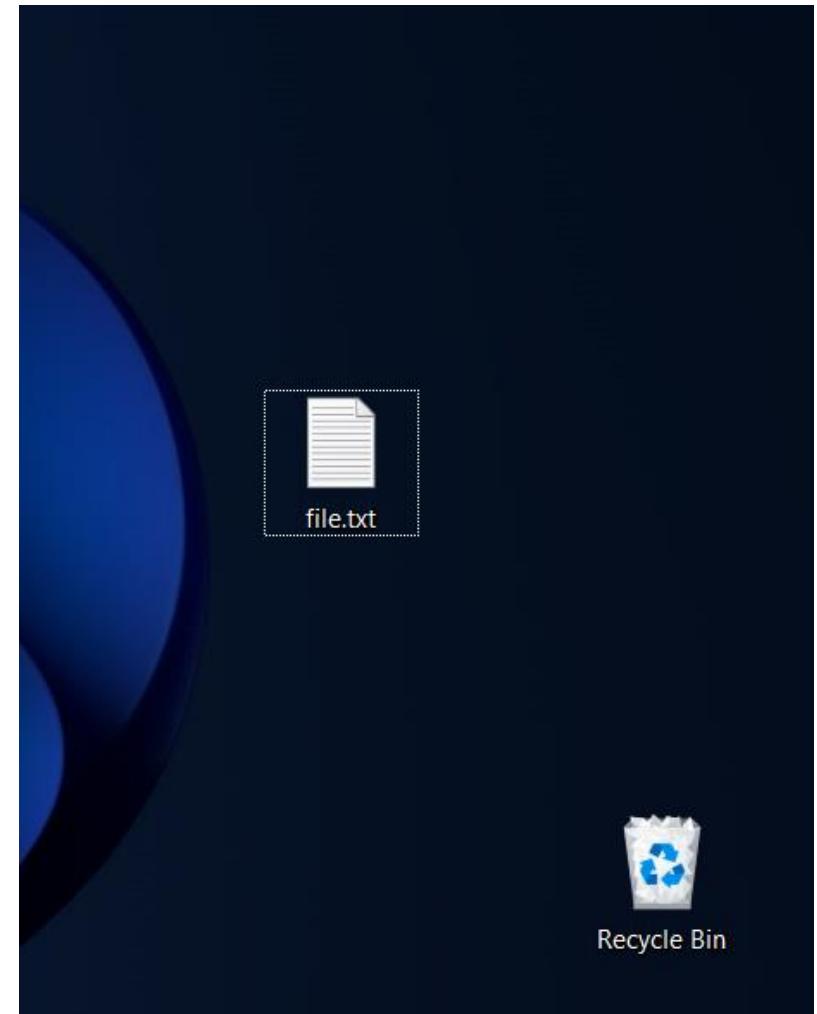


# KLM Example: deleting a file

We can delete a file by:

- A. Dragging and dropping it to the trash can icon
- B. Selecting it and pressing the «delete» key
- C. Performing a right click on it, then selecting the «move to trash» option

Which alternative is faster?



# KLM Example: deleting a file

**Alternative A operators:**

- Prepare to perform action (M)
- Point with the mouse over the file icon (P)
- Press and hold mouse button (B)
- Drag file icon to trash can icon (P)
- Release mouse button (B)

**Assumptions:**

- Hand already on mouse
- Trash icon visible
- File icon visible

$$\text{Total time} = M + 2P + 2B = 1.2 \text{ s} + 2 * 1.1 \text{ s} + 2 * 0.1 \text{ s} = 3.6 \text{ s}$$

# KLM Example: deleting a file

**Alternative B operators:**

- Prepare to perform action (M)
- Point with the mouse over the file icon (P)
- Perform click (B)
- Move hand to keyboard (H)
- Press «delete» key (K)

**Assumptions:**

- Hand already on mouse
- Trash icon visible
- File icon visible

$$\text{Total time} = M + P + B + H + K = 1.2 \text{ s} + 1.1 \text{ s} + 0.1 \text{ s} + 0.4 \text{ s} + 0.2 \text{ s} = 3 \text{ s}$$

# KLM Example: deleting a file

**Alternative C operators:**

- Prepare to perform action (M)
- Point with the mouse over the file icon (P)
- Perform right click (B)
- Point with mouse over «delete» option in context menu (P)
- Perform click (B)

**Assumptions:**

- Hand already on mouse
- Trash icon visible
- File icon visible

$$\text{Total time} = M + 2*P + 2*B = 1.2 \text{ s} + 2*1.1\text{s} + 2*0.1\text{s} = 3.6 \text{ s}$$