

WindowPaint

paintWindow

WARNING: THIS subroutine does not check to see if it's writing over the edge of the screen. This is done for speed, but it is the user's job to make sure that all data will fit on the screen!

This subroutine changes the attribute map without actually changing the bitmap that's in it. You can combine this with other routines, such as clearbox, to clear a screen area and reset the attributes, as well as fast plot and draw routines that don't deal with attributes themselves. Also ideal (and originally designed for) use with `putChars`, which is a fast graphics print routine, that also doesn't do attributes directly. Sprites can be worked up from this basis.

Usage

```
windowPaint(x as uByte,y as uByte, width as uByte, height as uByte, inkCol as ubyte, paperCol as uByte,
paint (x as uByte,y as uByte, width as uByte, height as uByte, attribute as ubyte)
```

`windowPaint` calls paint with the required single attribute byte - it's perfectly reasonable to call it directly, if you have the full attribute value ready. windowPaint is really there to make it simpler to construct this byte.

Where * x is the x value in character co-ordinates * y is the y value in character co-ordinates * width is the width in characters * height is the height in characters

```

SUB windowPaint(x as uByte,y as uByte, width as uByte, height as uByte, inkCol as ubyte, paperCol as uByte)
    paint(x,y,width,height,(isFlash<<7+isBright<<6+paperCol<<3+inkCol))
END SUB

SUB paint (x as uByte,y as uByte, width as uByte, height as uByte, attribute as ubyte)
    REM Copyleft Britllion. Feel free to use as you will. Please attribute me if you use this, however

    asm
        ld      a,(IX+7)    ;ypos
        rrca
        rrca
        rrca                ; Multiply by 32
        ld      l,a        ; Pass to L
        and     3          ; Mask with 00000011
        add     a,88        ; 88 * 256 = 22528 - start of attributes. Change this if you are working with a
        ld      h,a        ; Put it in the High Byte
        ld      a,l        ; We get y value *32
        and     224        ; Mask with 11100000
        ld      l,a        ; Put it in L
        ld      a,(IX+5)    ; xpos
        add     a,l        ; Add it to the Low byte
        ld      l,a        ; Put it back in L, and we're done. HL=Address.

        push HL            ; save address
        LD A, (IX+13)      ; attribute
        LD DE,32
        LD c,(IX+11)      ; height

        BLPaintHeightLoop:
        LD b,(IX+9)        ; width

        BLPaintWidthLoop:
        LD (HL),a          ; paint a character
        INC L              ; Move to the right (Note that we only would have to inc H if we are crossing t
        DJNZ BLPaintWidthLoop

        BLPaintWidthExitLoop:
        POP HL             ; recover our left edge
        DEC C
        JR Z, BLPaintHeightExitLoop

        ADD HL,DE          ; move 32 down
        PUSH HL            ; save it again
        JP BLPaintHeightLoop

        BLPaintHeightExitLoop:
    end asm
END SUB

```