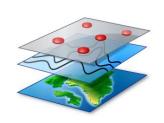
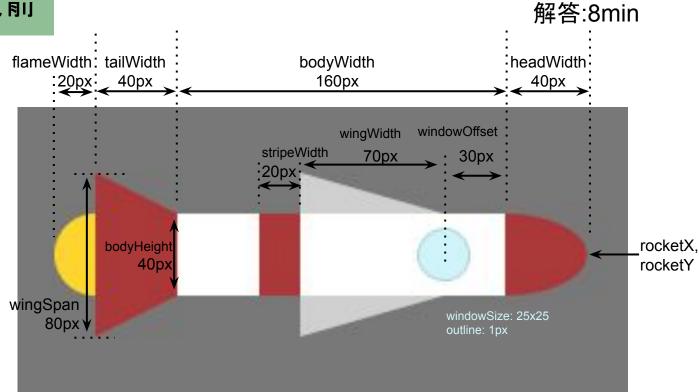
練習一: 畫出火箭

後方火焰 #FFD62E 機身 **純白** 灰色翅膀 #D0D0D0 紅色塗層 #AC3939 窗戶玻璃 #CFF4F9 窗戶外框 #B6D1DA

*提示 從底層畫起





實作:25min

參考指令

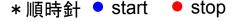
https://processing.org/reference/

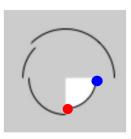
```
fill() rect()
stroke() ellipse()
strokeWeight() arc()
noStroke() triangle()
quad()
```

arc()

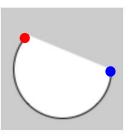
arc(a, b, c, d, start, stop)
arc(a, b, c, d, start, stop, mode)

- a x-coordinate of the arc's ellipse
- b y-coordinate of the arc's ellipse
- c width of the arc's ellipse by default
- d height of the arc's ellipse by default

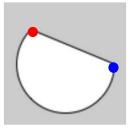




arc(50, 55, 50, 50, 0, HALF_PI);
noFill();
arc(50, 55, 60, 60, HALF_PI, PI);
arc(50, 55, 70, 70, PI, PI+QUARTER_PI);
arc(50, 55, 80, 80, PI+QUARTER_PI, TWO_PI);



arc(50, 50, 80, 80, 0, PI+QUARTER_PI, OPEN);



arc(50, 50, 80, 80, 0, PI+QUARTER_PI, CHORD);

練習二: 火箭動畫

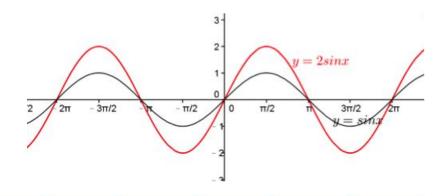
實作:25min

解答:8min



火箭從左方畫面外進入,從右方畫面外離開,循環播放 (火箭必須完整從右邊消失才能從左邊出現) x方向移動速度 rocketXSpeed = 5

火箭以 y: 100 為軸心做正弦波 (sin) 上下飄動振幅為 rocketYAmplitude = 40



radian (弧度

角度單位							
角度	0 °	30°	45°	90°	180°	270°	360°
弧度	0	π/6	π/4	π/2	π	$3\pi/2$	2π

yOffset = A * sin(x)

A: rocketYAmplitude

x: 預設為弧度

radians (360)

透過指令,讓電腦自動幫你把 360° 換算成 2π

min() / max() 指令

```
float f = min(12.3, 230.24); // Sets 'f' to 12.3
float c = max(12.3, 230.24); // Sets 'c' to 230.24
```