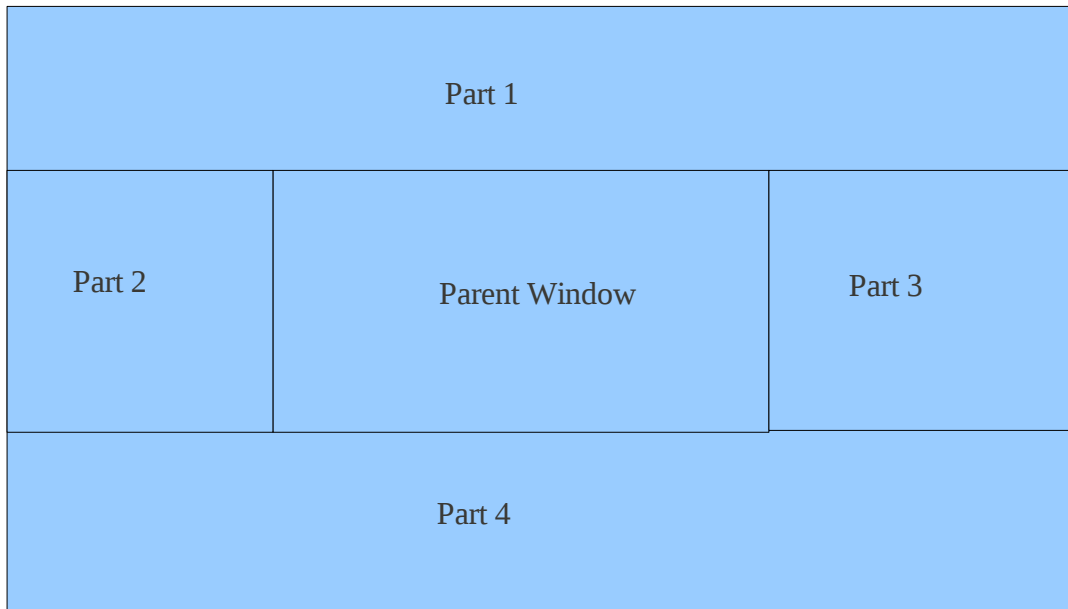# TransPanel

TransPanel is a transparent panel for java. This panel works by painting the panel with the background image which is updated for every move and resize event of the parent. After painting the background the components added on to the panels are painted. The parent may be another panel or frame. For the background image updation the whole screen is captured in four parts based on the position of the parent. The four parts are shown as below

Shown below is the whole desktop screen with the parent window (JFrame)

Part 1

Part 2

Parent Window

Part 3

Part 4

The screen is divided into four parts the upper part above the parent is the part 1. the left and right side of the parent is part 2 and 3 respectively. The bottom is part 4.
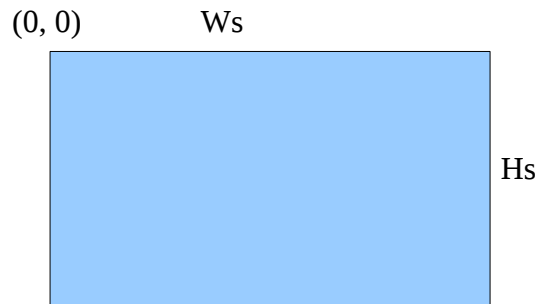
the **Screen** dimensions are
0 – starting x coordinate
0 – starting y coordinate
Ws – width of the screen
Hs – height of the screen

(0, 0)　　　　Ws

Hs

the **Parent** window dimension are
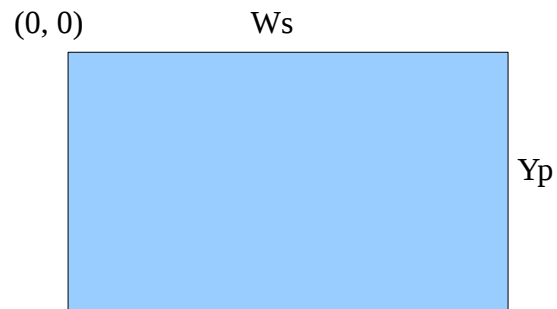
Xp - x coordinate on screen
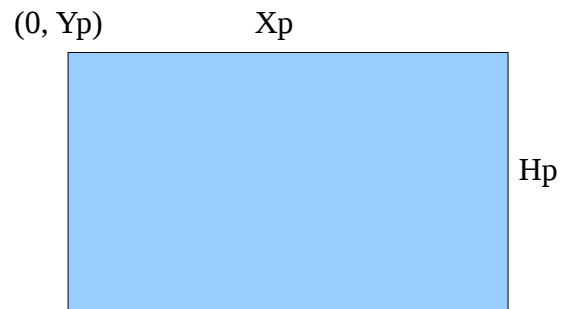Yp – y coordinate on screen
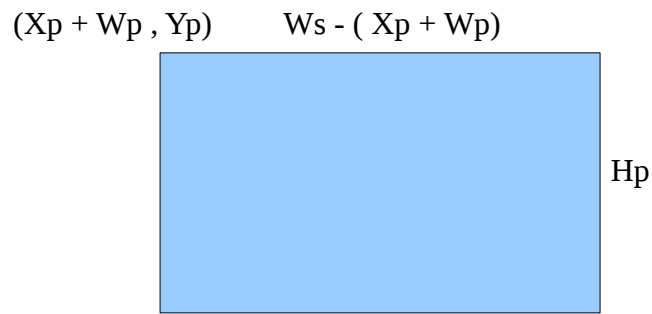Wp – width of the parent
Hp – height of the parent

(Xp, Yp)   Wp

Hp

Part 1 Calculated Dimensions

(0, 0)   Ws

Yp

Part 2 Calculated Dimensions

(0, Yp)   Xp

Hp

Part 3 Calculated Dimensions

(Xp + Wp , Yp)   Ws - (Xp + Wp)

Hp

Part 4 Calculated Dimensions

(0 , Yp + Hp)   Ws

Hs - (Yp + Hp)

On every parent moved and resized event the parts dimensions are calculated and background image is updated with the parts screen shots. This is required for displaying the updated background image.

Developed By : deepak pk
Email : deepakpk009@yahoo.in

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