Driver Class SA int rect1X, rect1Y, rect2X, rect2Y, rect3X, rect3Y int rect4X, rect4Y, rect5X, rect5Y, recW, recH; color rectColor, rect2Color, rect3Color, fillcolor; boolean Over1, Over2, Over3, Over4, Over5; int state; BubbleSortLarge bubL; SelectionSortLarge selL; InsertionSortLarge insL; InsertionSortSmall insS; SelectionSortSmall selS; void setup(); void draw(); void makeText(String, int, int, int); void update(); void mouseClicked(); boolean overRect(int,int); void keyPressed();

For Small Scale Visualization **InsertionSortSmall** int [] arr; float boxWidth, boxHeight; int firstBox, secondBox, arrSize, i, maxPos, pass; **BubbleSortSmall** void InsertionSortSmall(); int [] arr; void drawIS(); float boxWidth, boxHeight; int firstBox, secondBox, arrSize, a, b, partition, i, old boolean swapping, last **SelectionSortSmall** int [] arr; void BubbleSortSmall(); float boxWidth, boxHeight; void drawBS(); int firstBox, secondBox, arrSize, a, b, partition, i, old boolean swapping, last void SelectionSortSmall(); void drawSS();

Sorta Awesome UML Diagram

Sorta Awesome

David Frid, Karina Ionkina, Mark Shafran

APCS2 pd05

HW47 -- ... Are we there yet? 2017-05-31

For Large Scale Visualization

rArrIS

ArrayList<Integer> count ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrIS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void InsertionSortV()

void drawIL(int)

void swap(Rectangles[], int, int)

InsertionSortLarge

int counter; rArr rects;

int[] arr

InsertionSortLarge(); void drawIL(); void setArr();

void keyPressed();

color c;

Rectangles(float,float,float,float,color); void draw(int,int,boolean)

void setHeight(float);

Rectangles dupe();

SelectionSortLarge

int counter;

rArr rects;

int[] arr

SelectionSortLarge();

float x, y, w, h;

Rectangles

float getHeight();

void drawSL();

void setArr();

void keyPressed();

rArrSS

ArrayList<Integer> count

ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrIS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void SelectionSortV()

void drawSL(int)

void swap(Rectangles[], int, int)

BubbleSortLarge

int counter;

rArr rects;

int[] arr

BubbleSortLarge(); void drawBL();

void setArr(); void keyPressed();

rArrBS

ArrayList<Integer> count

ArrayList<Rectangles[]> order;

Rectangles[] rawr;

int[] arr;

rArrBS(Rectangles[]);

Rectangles[] dupe(Rectangles[]);

void BubbleSortV()

void drawBL(int)

void swap(Rectangles[], int, int)