

# today

Due: Final Project Proposal

more Array Objects + Text

proposal presentations

Student Presentations

Reading Ch 17, Optional Reading Ch 15, 16, 18, 19, 20

# Wednesday, March 3

Due: Final Project Paper Sketches

AV + data

make prototype

Student Presentations

# more Array and Objects

Array>sketch\_3\_Array\_storing\_circle\_attributes.pde

```
if (dist (x[i], y[i], mouseX, mouseY)) <=r[i]{  
}
```

Objects>sketch\_8\_Class\_random.pde

introducing a new datatype: color

```
int x=0;
```

```
color c = color(random(255), random(255), random(255));
```

objects>sketch\_8\_array\_class.pde

# more Array and Objects

Objects>sketch\_8\_4\_two\_constructors.pde

```
//constructor #1
```

```
Particle() {  
  x=random(width);  
  y=random(height);  
  r=random(4, 18);  
}
```

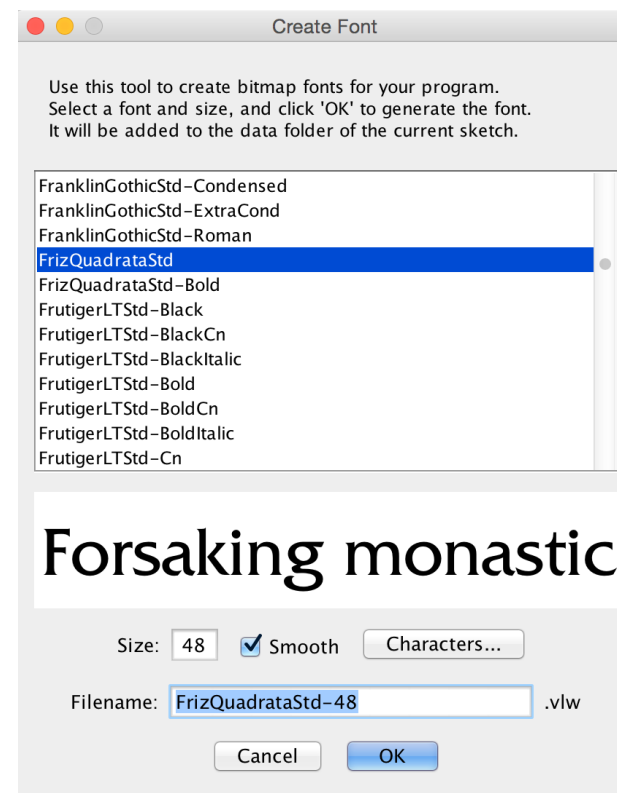
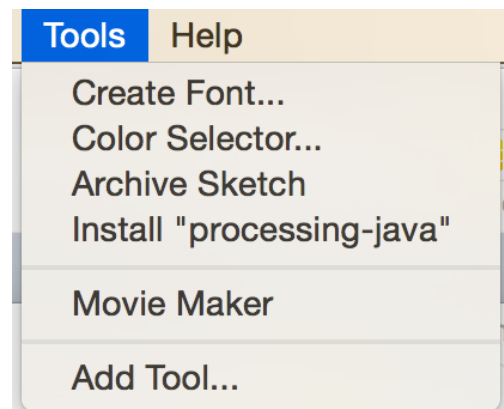
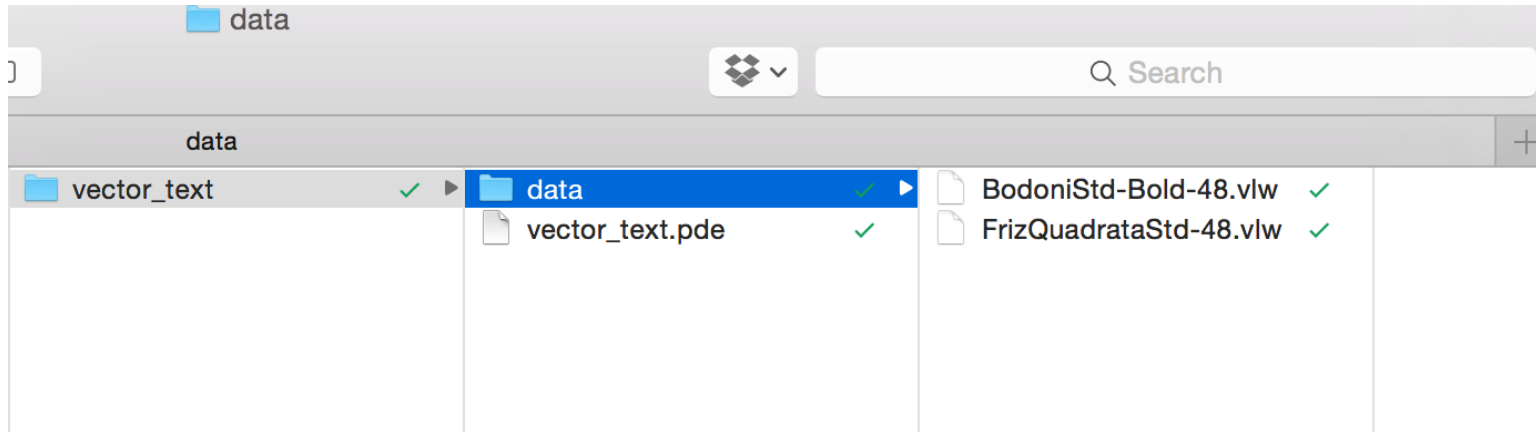
```
//constructor #2
```

```
Particle(float tempX, float tempY, float tempR) {  
  x=tempX;  
  y=tempY;  
  r=tempR;  
}
```

**vector text**

# vector text

Text>vector\_text



# vector text

Text>vector\_text

```
PFont zigBlack;
```

```
void setup() {  
  size(500, 500);
```

```
  zigBlack = createFont("BodoniStd-Bold", 100);
```

```
  //zigBlack = createFont("FrizQuadrataStd", 100);
```

```
  textFont(zigBlack);
```

```
  fill(0);
```

```
}
```

```
void draw() {
```

```
  background(204);
```

```
  text("LAX", 50, 140);
```

```
  text("LHR", 50, 270);
```

```
  text("TXL", 50, 400);
```

```
}
```

# characters and strings

## character

a single character inside of single quotes

```
char letter = 'A';  
char digit  = '0';
```

## string

a sequence of characters in double quotes

```
String word      = "hello";  
String robot     = "r2d2";  
String nothing   = "";
```

# type

.vlw format is required

1. create a font in Processing environment

Tools » Create Font...

2. load font in setup()

```
PFont font = loadFont(".....") ;
```

3. set font (anywhere in code before adding text)

```
textFont(font) ; //remains in effect until changed
```

4. write with font

```
text(".....", x, y) ;
```



# type

Processing uses fonts in .vlw file format

Tools > Create Font



Select a font.

Select a size.

Make note of the font filename.

# useful text functions

```
textWidth("...") // Returns width in pixels of string
```

```
textAlign(LEFT) // Other options are RIGHT, CENTER
```

```
textSize(n) // Sets size of font in pixels
```

```
textLeading(x); // Sets the space between the lines
```

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rapid fire: proposal presentations

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