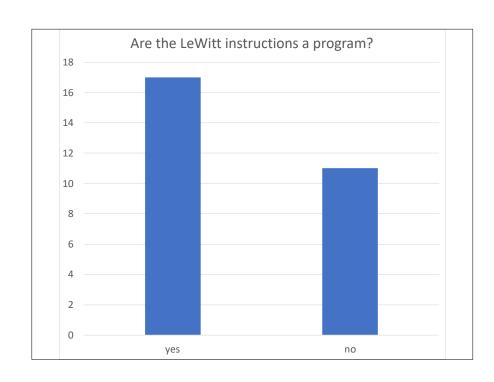
CSCI 334: Principles of Programming Languages

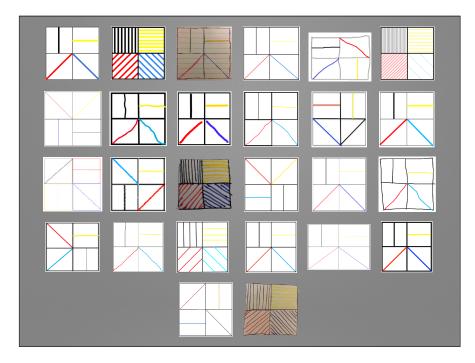
Lecture 2

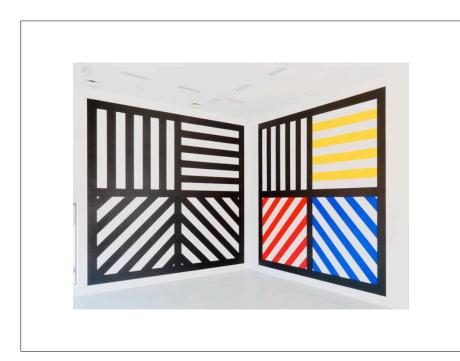
Instructor: Dan Barowy

Williams

Are the LeWitt instructions a program?









When are you done?



Sketches



Context

The painting was inspired by the artist's sister, who hallucinated seeing their deceased parents in the house.

"I wanted to say something about how life just simply evaporates...When you are young, you always think things are ahead of you. You get older you realize that there's not so much ahead; it's all in the past. I wanted to capture that."

Activity:

- Look at each sketch, comparing to final painting.
- 2. What do you think was the purpose of each sketch?
- 3. What differences or similarities do you see between sketches?
- 4. If you could write down the artist's "process" as an algorithm, what do you think that it would look like?

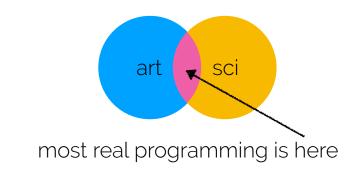
I think both processes are essentially the same.

aesthetic

technical

(Knuth)

If programming were just science, we wouldn't have to do it anymore.

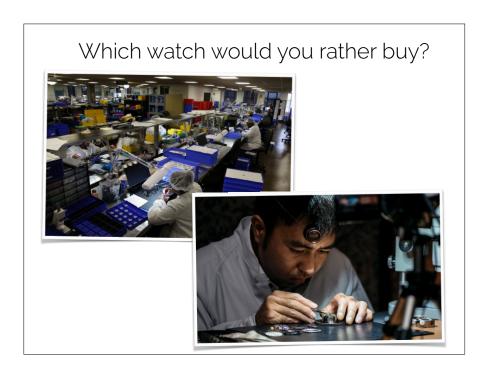


The goal of PL research is generally to make programming a science:



Me: Yes! In the meantime, recognize the importance of the "non-science" part.

"perhaps programming languages should be written more intuitively to enhance the 'trance'" — Hee-Sung



C

C

Read the "Intro" doc.

 C

Read the "Intro" doc.

If you haven't started, start now.

Function Declaration

```
#include <stdio.h>
int main() {
  printf("Hello world!\n");
  return 0;
}
```

```
#include <stdio.h>

int main() {
  hello();
  return 0;
}

void hello() {
  printf("Hello world!\n");
}
```

```
#include <stdio.h>

void hello() {
  printf("Hello world!\n");
}

int main() {
  hello();
  return 0;
}
```

```
#include <stdio.h>

void hello();

int main() {
  hello();
  return 0;
}

void hello() {
  printf("Hello world!\n");
}
```

Function Application

```
Call stack
```

```
#include <stdio.h>

void hello() {
    printf("Hello world!\n");
}

int main() {
    hello();
    return 0;
}

Call stack
```

```
#include <stdio.h>

void hello() {
    printf("Hello world!\n");
}

int main() {
    hello();
    return 0;
}

Call stack
```

