# The Art of Identifier Namina

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#### Names

- o Variables
- o Types, classes
- o Methods, functions
- e Global constants

The most difficult part of programming is coming up with good variable names.

#### Describe this code:

```
int f(int x, int y) {

int z;

z = x * y;

return z;

}
```

#### Describe this code:

```
int f(int h, int w) {
  int a;
  a = h * w;
  return a;
}
```

#### Describe this code:

```
int areaOfRectangle(int height, int width) {
  int area;
  area = height * width;
  return area;
}
```

#### NOUNS

- o Variables, objects, types, classes
  - @ Person, stack, List, window, menu
- o Plurals should be avoided
  - o string people[n]; // people[3]="joe";
  - String person[n]; // person[3]="joe";

### Verds

- o functions, methods
  - o GetValue, push, computeSalary
  - o DrawWindow, update
  - o SizeOf, add, isEqual

# Namina style

- @ Consistent style should be used
- o camelCase capitalize words (after the first)
- o under score underscores between words.

# Indentation &

- o Use consistent indentation and spacing
- @ Most IDEs use 4 spaces per block
- o Take advantage and use the auto indent
- Take time to go back and clean up indentation

# Ugly & Unreadable

```
void foo(int x) {
int t;
for (i=0; i< x; ++i) {
cout << i;
t = t+ i; }
 cout << t;
```

## Clean & Neal

```
void foo(int x) {
   int t;
   for (i=0; i< x; ++i) {
      cout << i;
       t = t + i;
    cout << t;
```