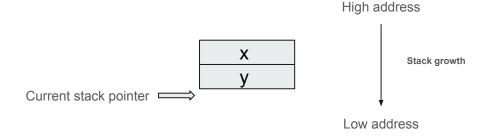
Security Vulnerabilities - Crash course

Holistic Software Security

Aravind Machiry

101: Runtime stack grows down

```
void bar() {
  printf("Hello\n");
void foo() {
  bar();
  <u>y</u>:..
void main() {
  foo();
  <u>x</u>:..
```



Stack Based Buffer Overflow

Race Condition to Memory Corruption

Temporal Vulnerabilities

References

Basics: https://www.youtube.com/watch?v=VroEiMOJPm8

Wargames: https://overthewire.org/wargames/, https://pwnable.kr/

Temporal vulnerabilities exploitation: https://github.com/shellphish/how2heap