

rusty

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Introduction

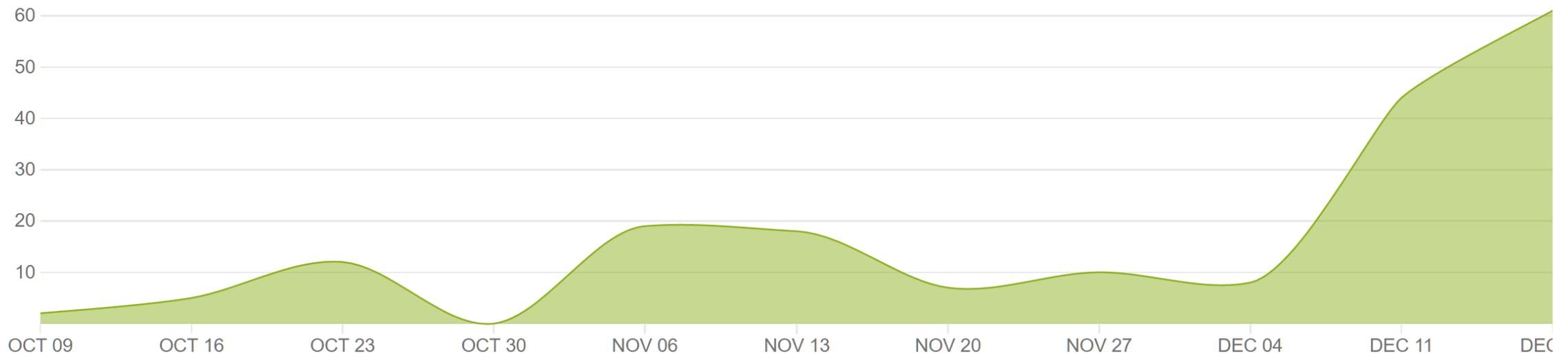


Project Management

October 9, 2016 - December 18, 2016

Display in Days Weeks Months

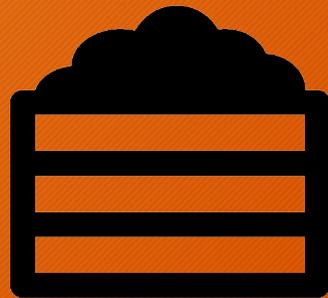
To select a time span double click near its start point and drag to its end point.



Features



Zero-cost abstractions
that help catch
data races and segfaults



Heap-allocated
arrays and structs
provide more flexibility



Scoping rules that
support shadowing



Statically and strongly-typed
system catches errors at
compile-time

Syntax

Basic Functionality

```
fn main() -> int {
  let mut x:int = 0;
  while (x < 5) {
    println(x);
    x = x + 1;
  }
  return 0;
}
```

Structs

```
fn main() -> int{
  struct Point {
    x : int,
    y : int
  }

  let origin : Point = { x : 10, y : 1 };

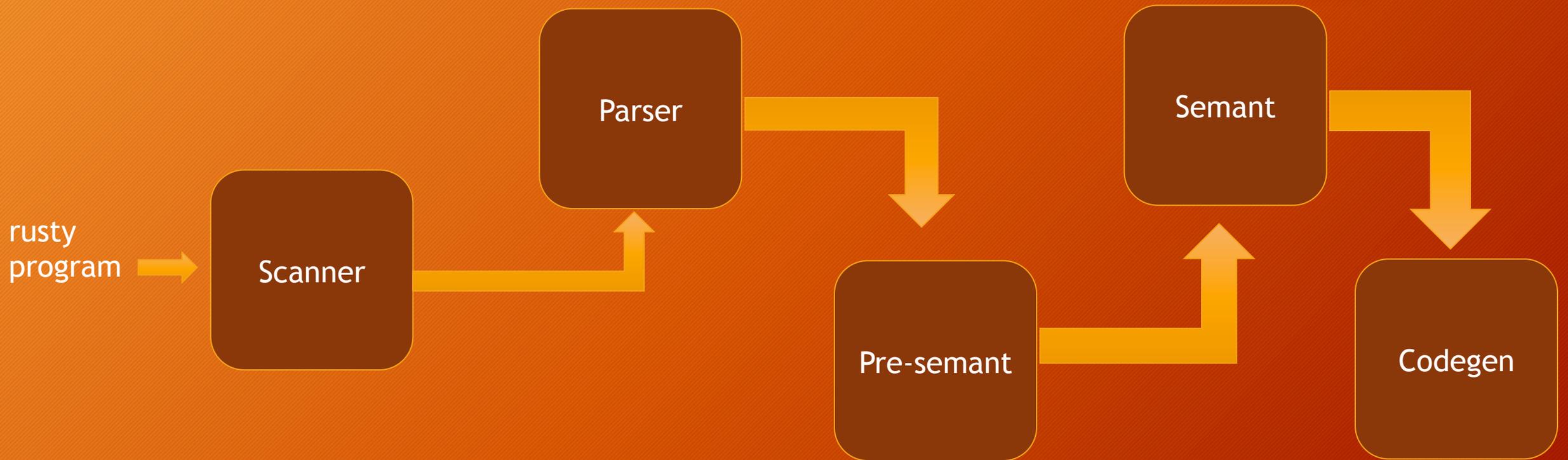
  println(origin.x + origin.y);

  println("yay");
}
```

Memory Safety

```
fn mem1 () -> int {
  let v: int = 42;
  let v2: &int = &v;
  println(*v2); /* 42 */
  println(v); /* 42 */
  return 0;
}
```

Compiler Architecture



Testing

- Binary/unary operations
- Control flow
- Functions
- Structs
- Memory safety

Demos