

# YARF

Yet Another Reckless Frog

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■ Advanced Programming Techniques  
2015-2016

# Entity Structure

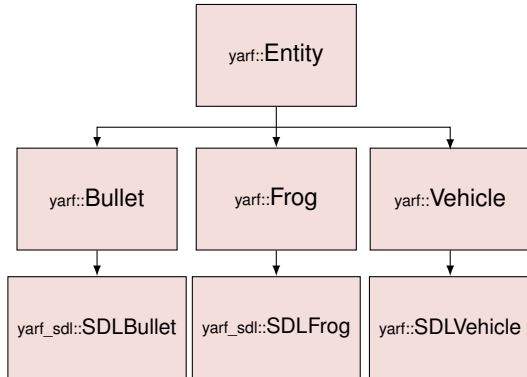
A combination of inheritances

## ■ Implementation Inheritance

- implemented functions

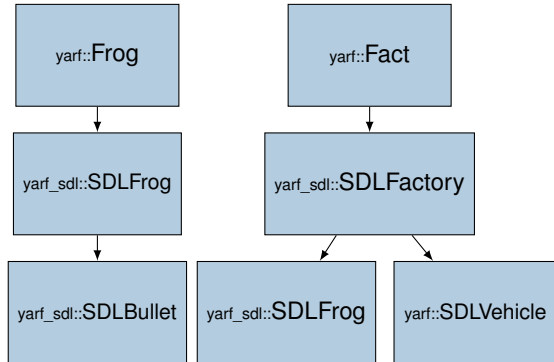
## ■ Interface Inheritance

- (pure) virtual functions



# Entity Creation

- Fact as Abstract Factory
  - Frog(s)
  - Vehicles
- Frog as Abstract Factory
  - Bullets



# Additional Features

Mainly The Merits of Game/View Separation

## Game Axis

- $[0, 4] \times [0, 3]$  axis
- allows for high accuracy

↓ *results in*

## Visualisation Axis

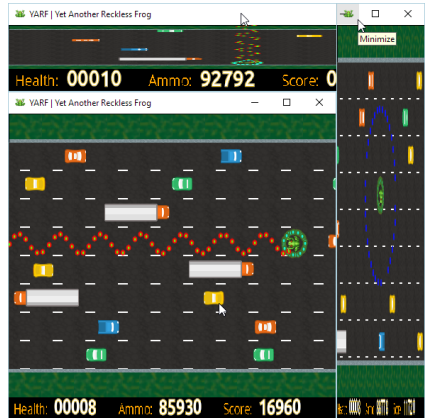
- ?? x ?? axis
- very scalable

## TPS

- constant/adjustable
- game speeds unaffected

## Multifunctional Bullets

- offence
- defence



# Additional Features

## A Single Texture Atlas

- Passed onto entities by its address
- Allows for low memory usage ✓



## Unfinished Features

- 1 Bonus Entities: ✗
- 2 Enemy Projectiles: ✗

YARF.exe (32 bit)	0%	9.3 MB
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