

PLANETDEFENSE V0.2.0

CSCE3513 TEAM 6 GAME PROJECT - SPRING 2012

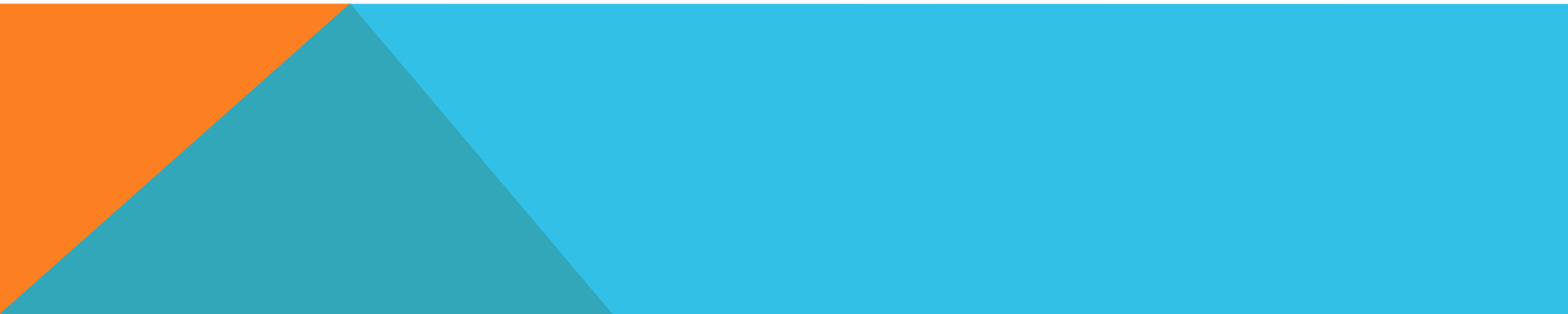
USER STORIES:

- As a user, in order to lose the game, I need to lose when the planet's health is depleted
- As a user, in order to close the game, I want the ESC button to exit the game with a confirmation first
- As a user, I want an in game menu to exit the game or change options.
- As a user, I want to view an options page from the main menu
- As a user, I want to view a credits page on the main menu
- As a user, in order to increase difficulty of the game, there should be a timed cooldown mechanism for shooting lasers
- As a user playing the game, I want a stream of jet particles to come out of the back of my ship for animation purposes

PAIRING:

- Addam/Denton -> Initial game menus and stubs
- Michael/Bryan -> Credits menu state
- Team -> Planet Health Bar, Life images

(Remainder of tasks were done individually)



TDD-ING

- Tests were (mostly) attempted first before implementation except for a few unique situations.
(we still aren't perfect)
 - Example: particle stream from rear of ship

UNIT TESTING – ASTEROID

PlanetDefense::Asteroid

should respond to #draw

when playing

should move right across the screen when @vel_x positive

should move left across the screen when @vel_x negative

should move up the screen when @vel_y positive

should move down the screen when @vel_y negative

should collide with player

should create an explosion on collision with laser

UNIT TESTING – GAME STATE

Chingu::GameState

- should be able to enter CreditsState from MenuState

when initialized

- should have title at proper place

- should appear below title

after scrolling

- should have scrolled down

reset to top

- should reset names to below title

UNIT TESTING – GAME WINDOW

```
PlanetDefense::GameWindow  
  should respond to #close  
  should respond to #fps  
  should respond to #update  
  should respond to #draw  
  should respond to #root  
  should respond to #game_state_manager  
  should respond to #factor  
  should respond to #cursor  
  should respond to #root  
  should respond to #milliseconds_since_last_tick  
Window should be initialized  
Window should have correct dimensions  
Window should automatically have current version number in caption
```

Finished in 0.26689 seconds

13 examples, 0 failures

UNIT TESTING – WEAPON

PlanetDefense::Weapon

when initialized

- should set initial values

when calling weapon update

- should cooldown according to cooldown_rate

- should heat up according to heatup_amount

- should overheat at 100 heat, and stay overheated for overheat_penalty time

- should change the gauge color according to heat

- should have a restricted firing rate

UNIT TESTING - PLAYER

PlanetDefense::Player

should respond to #draw

when initialized

should be at bottom middle of screen

when playing

should move left across the screen on command

should move right across the screen on command

should move up the screen on command

should move down the screen on command

should move down the screen on command

should not exceed the left boundary

should not exceed the right boundary

should not exceed the top boundary

should not exceed the bottom boundary

should not exceed player max velocities

should collide with asteroids

should be able to shoot lasers

should cooldown lasers over time down to 0 minimum

should heat up when shot to 100 maximum

should overheat at 100 heat, and give a firing penalty

should overheat at 100 heat, and give a firing penalty

should cooldown every @cooldown_time

should have a restricted firing rate

UNIT TESTING

49 Total Tests

-Show specs on Github-



DEMO



PRELIMINARY V0.3.0 PLANNING

- As a user I want to be able to adjust the volume of sound effects and music independently
- As a user I want to be able to play multiple levels with different backgrounds
- As a user I want to receive a 'nuke' after reaching a certain number of points
- As a user I want my 'nuke' to destroy all asteroids on the screen



Questions?

