Making Small-Scale 2D Games with LÖVE and Lua

how to design a small-scope game that can be created within fourteen days

how to get started using the LÖVE 2D framework to create your 2D game



how to avoid the three landmines of small-scope game design.



How to design a small-scope game that can be created within fourteen days



--[[how, then, do you make sure that you are not overcommitting to a game scope that exceeds your capabilities and available time?]]--

function stepOne()

--Take stock of what game dynamic is at the core of your desire to create a game.

end

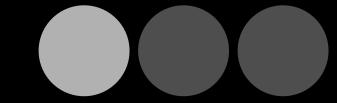


Game Dynamic



Game Dynamic

```
Territorial Acquisition;
      Prediction;
  Spatial Reasoning;
       Survival;
     Destruction;
      Building;
      Collection;
 Chasing or Evading;
     Trading; and
   Race to the End.
```



Game Dynamic





function stepTwo()

-- Take stock of the game that you would like to create.

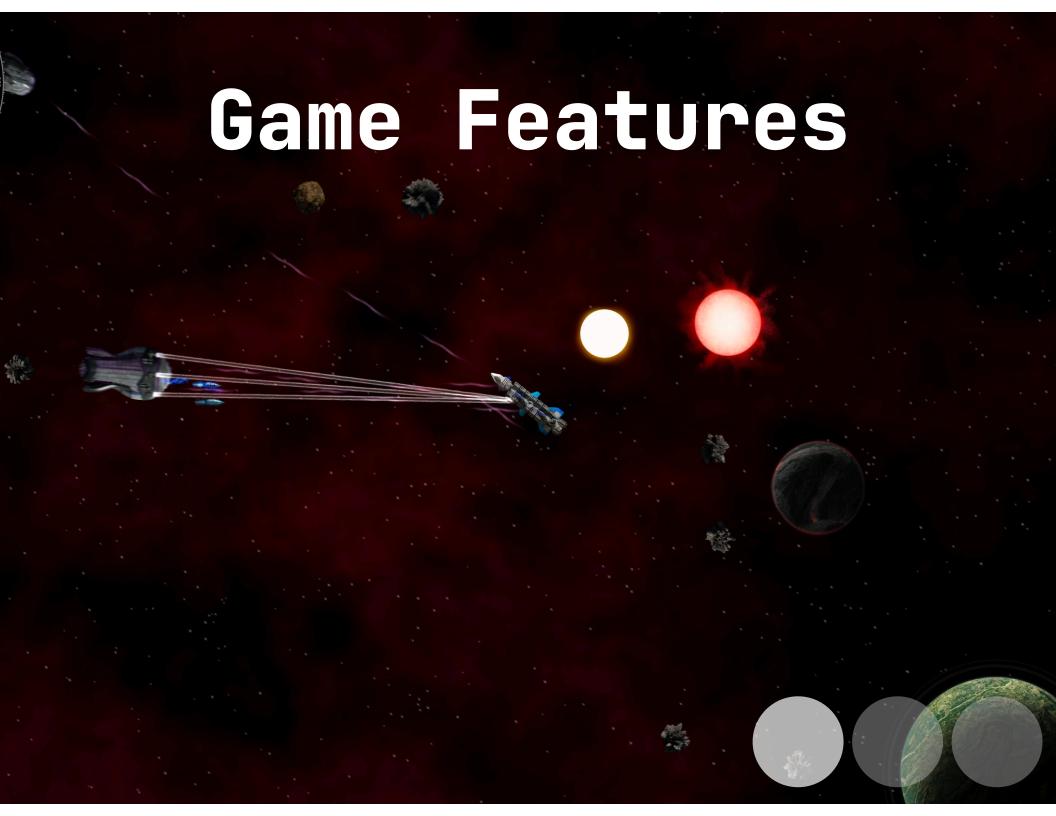
end

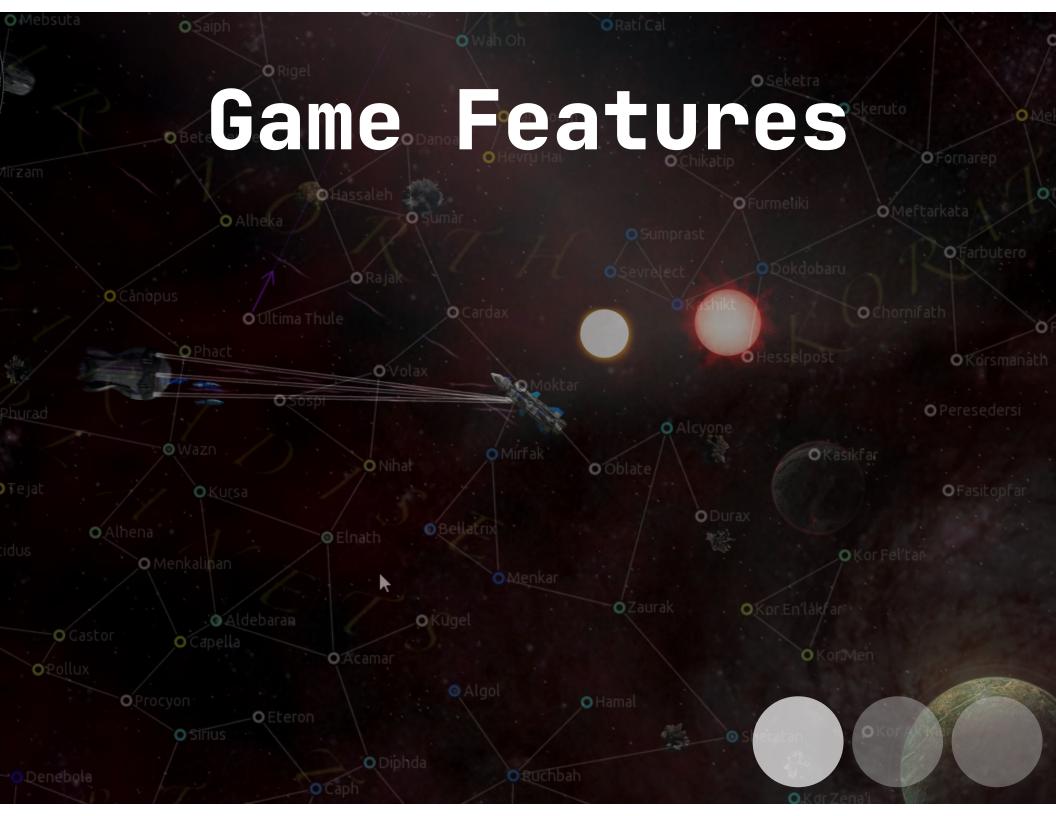


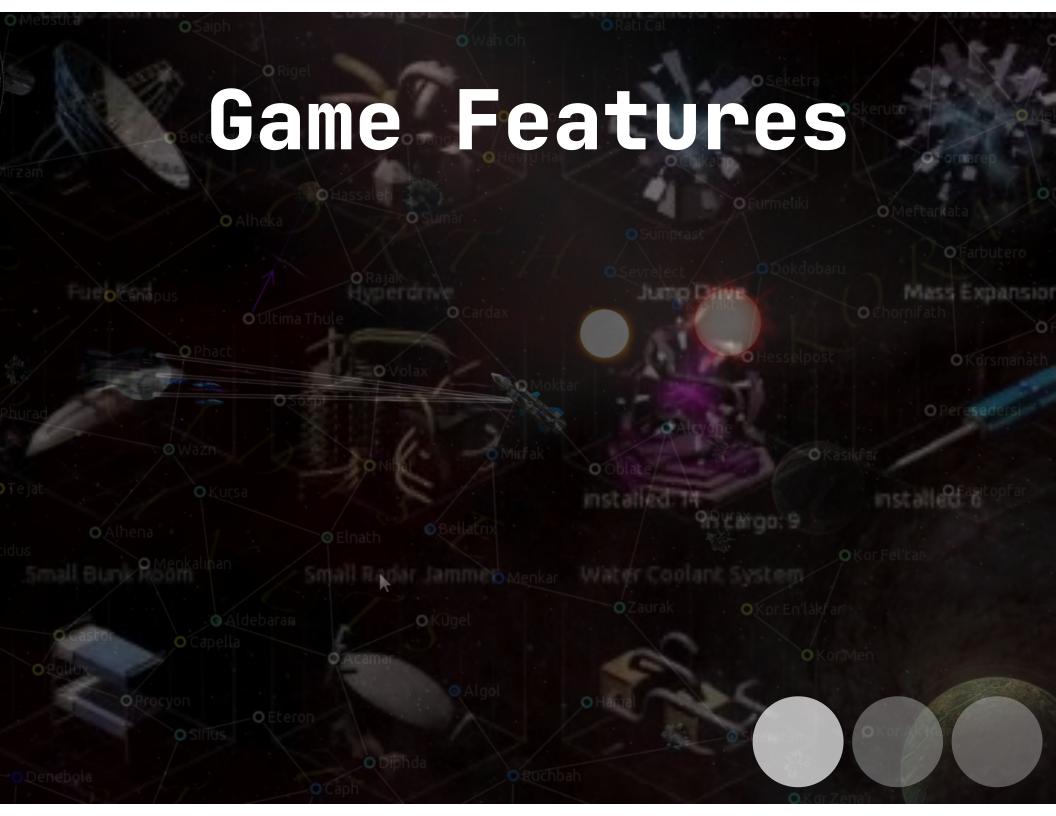
Game Features

Game Features

```
The player;
 Environment;
  Characters;
   Artwork;
   Abilities;
    Levels;
Power-Ups; and
    Scoring.
```







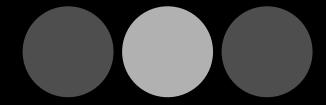


function stepThree()

--Reduce the game down to a Minimal Viable Product.

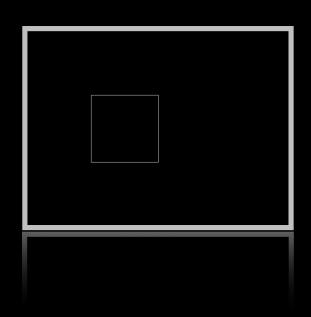
end

How to get started using the LÖVE 2D framework to create your 2D game



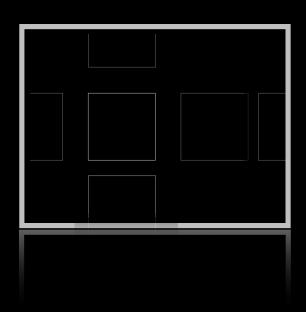


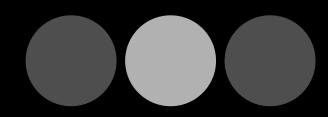
```
function love.load()
end
function love.update()
end
function love.draw()
    love.graphics.rectangle("line", 100, 100, 200, 200)
end
```



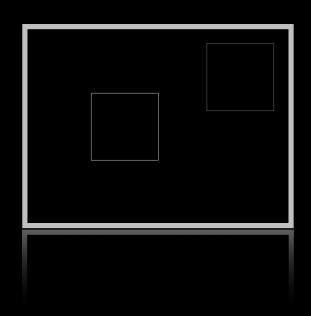


```
function love.load()
    x = 100
    v = 100
end
function love.update()
    if love.keyboard.isDown('w') then
        y = y - 1
    elseif love.keyboard.isDown('s') then
        y = y + 1
    elseif love.keyboard.isDown('a') then
        x = x - 1
    elseif love.keyboard.isDown('d') then
        x = x + 1
    end
end
function love.draw()
    love.graphics.rectangle("line", x, y, 200, 200)
end
```



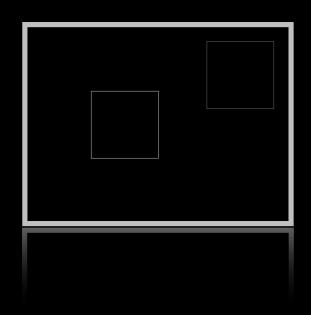


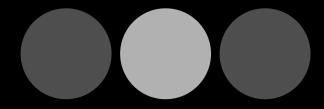
```
function love.load()
    mySquare = {}
    mySquare.x = 100
    mySquare.y = 100
    mySquare.height = 200
    mySquare.width = 200
end
function love.update()
    if love.keyboard.isDown('w') then
        mySquare.y = mySquare.y - 1
    elseif love.keyboard.isDown('s') then
        mySquare.y = mySquare.y + 1
    elseif love.keyboard.isDown('a') then
        mySquare.x = mySquare.x - 1
    elseif love.keyboard.isDown('d') then
        mySquare.x = mySquare.x + 1
    end
```



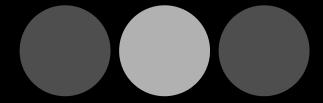


```
if mySquare.y < 0 then
        mySquare.y = mySquare.y + 4
    elseif mySquare.y > 400 then
        mySquare.y = mySquare.y - 4
    elseif mySquare.x < 0 then</pre>
        mySquare.x = mySquare.x + 4
    elseif mySquare.x > 600 then
        mySquare.x = mySquare.x -4
    end
end
function love.draw()
    love.graphics.rectangle("line", mySquare.x,
mySquare.y, mySquare.width, mySquare.height)
end
```





Phases of building a LÖVE game





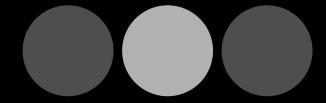
Sheepolution's "How to LÖVE"

https://sheepolution.com/learn/book/contents

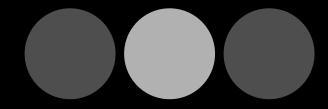


Simple Game Tutorials

https://simplegametutorials.github.io/love/



Brenda Romero and Ian Schreiber's "Challenges for Game Designers."



Extra Credits

https://www.extracredits.site



How to avoid the three landmines of small-scope game design. For less comfortable and more comfortable programmers alike



function landmineOne()

--skipping prototyping



function landmineTwo()

--over-scoping

end



function landmineThree()

--focusing on features over function

end

