

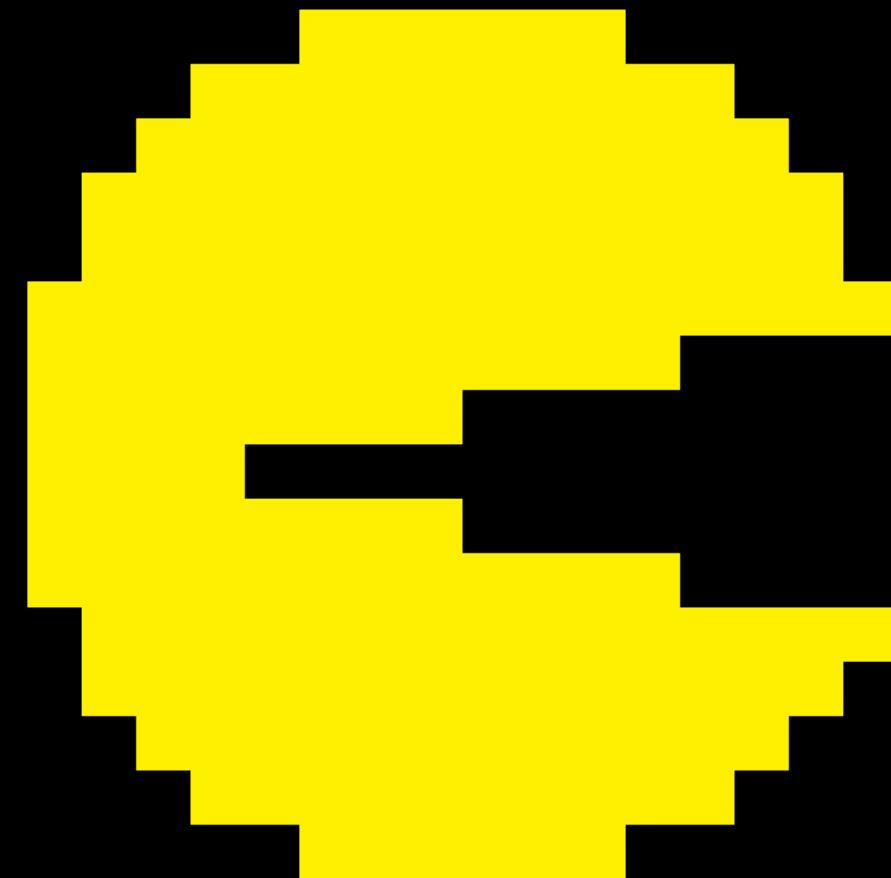
Top Score 1312



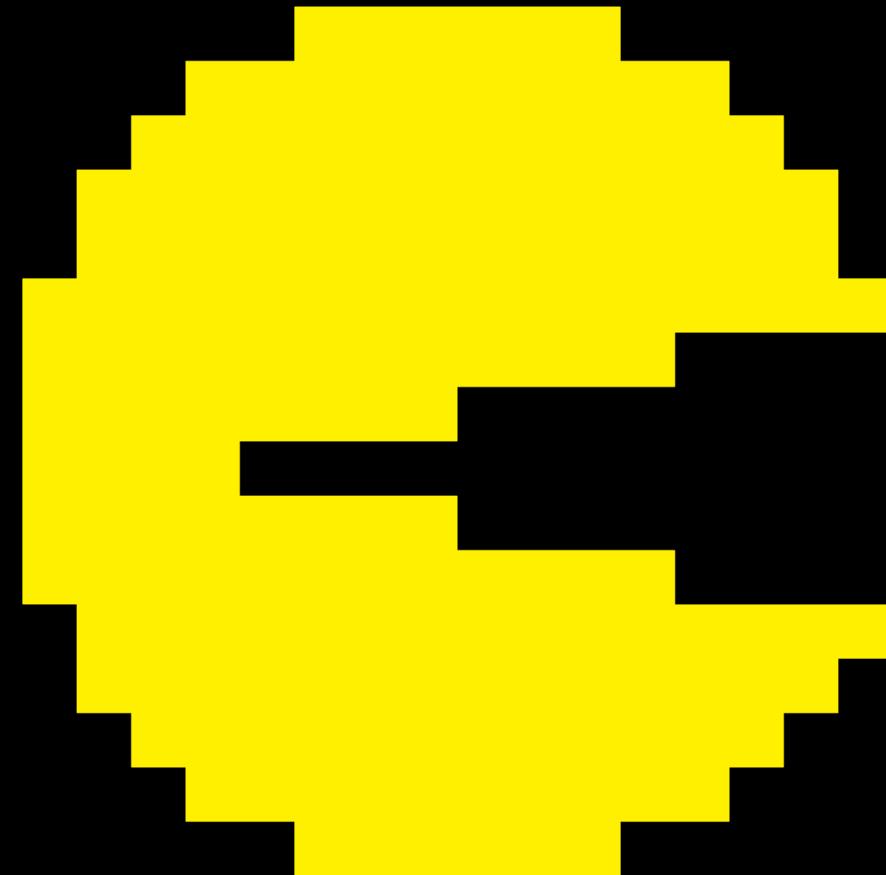
Press Start

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All Rights Common Creatives

Our Hero since  
1980 on a new  
Mission...



...help fighting  
infection!



Scientist worked  
really hard to  
come up with...



... Nano Pac-Man

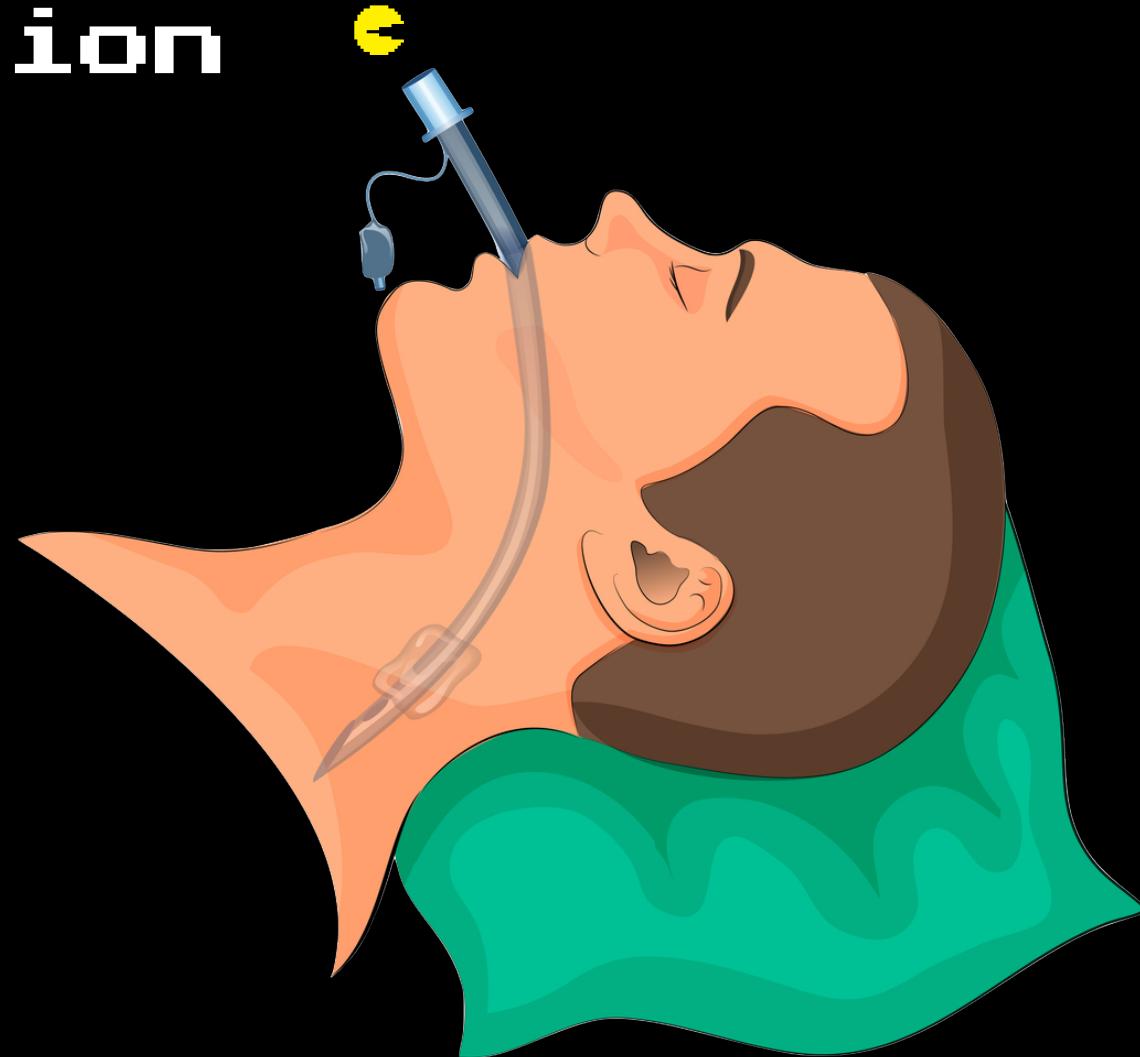
# The Mission: Lung

PAC-MONIA



# Medical Objective: Mechanical Ventilation

PAC-MONIA



# The Arena: Aveoli

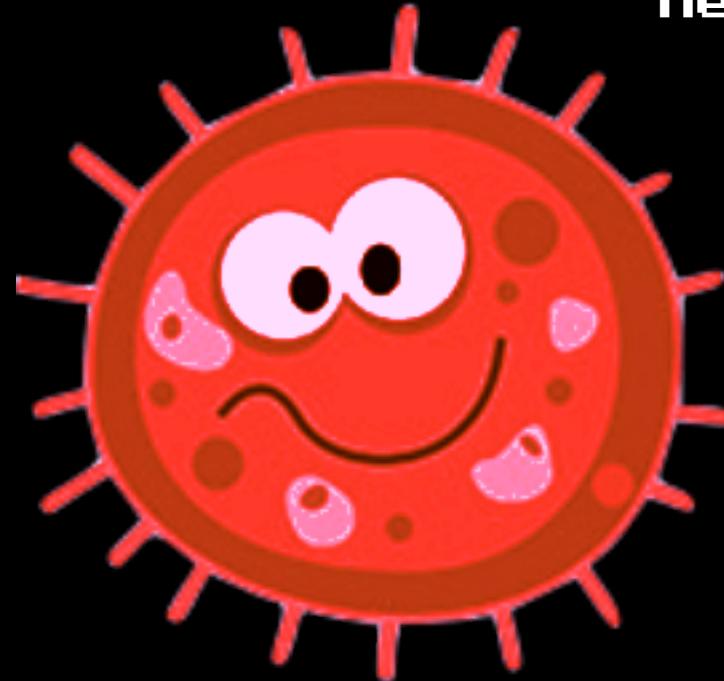
PAC-MONIA



# The Villain

PAC-MONIA

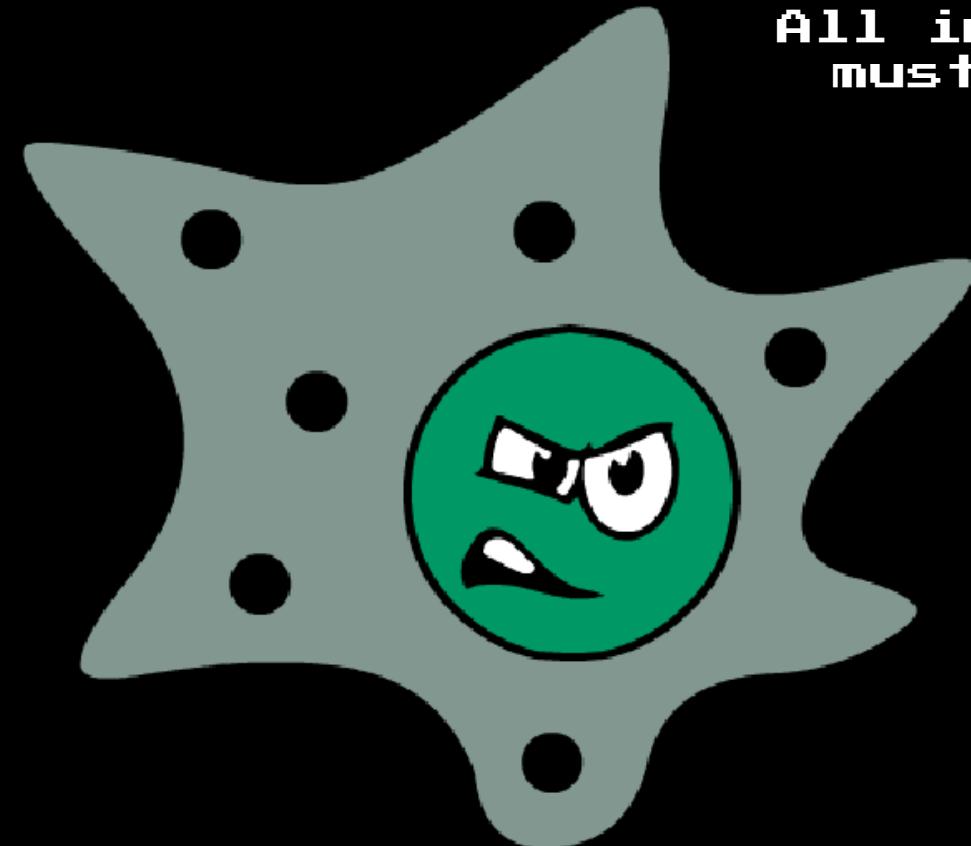
I am just  
here to grow



*Streptococcus  
pneumoniae*

Killer

PAC-MONIA

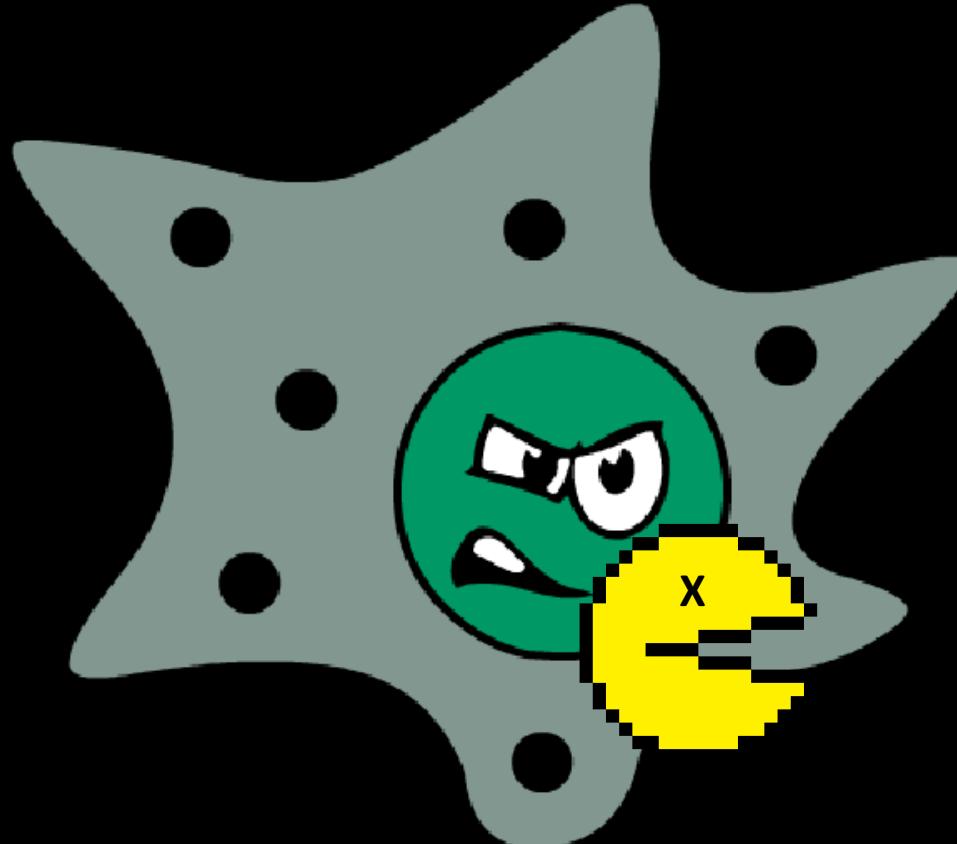


All invaders  
must die!

Macrophage

Only Rule:  
Don't get eaten!

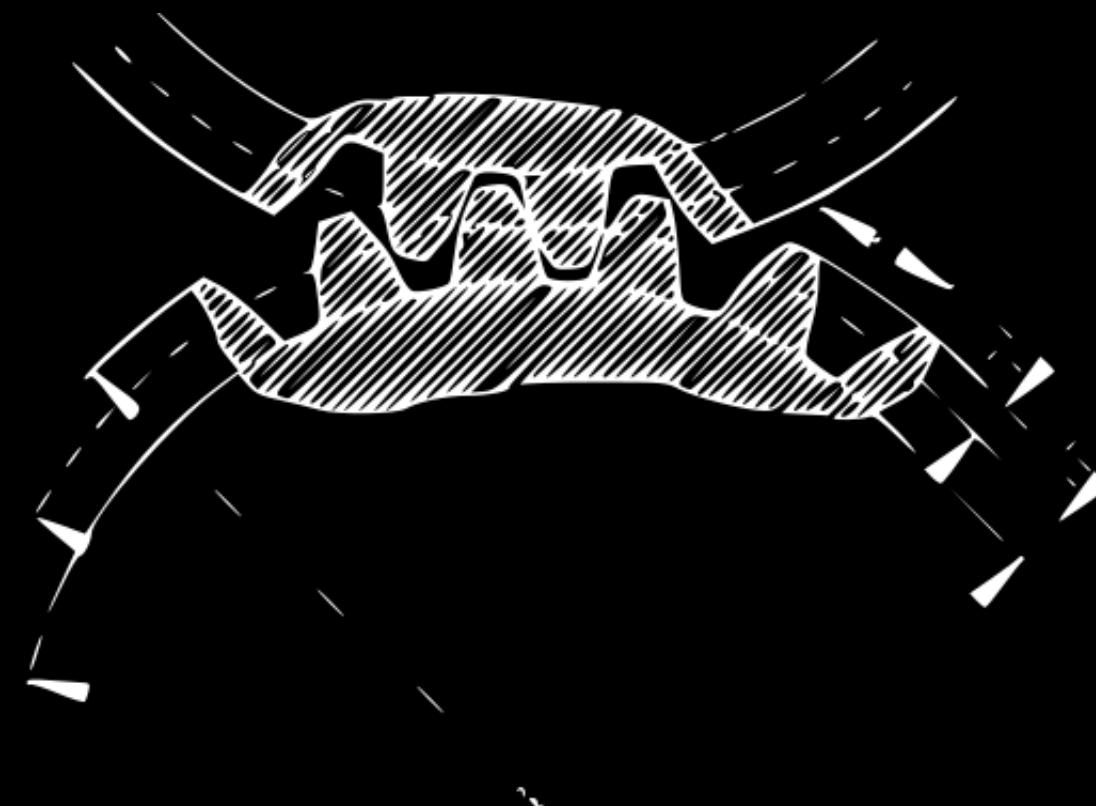
PAC-MONIA



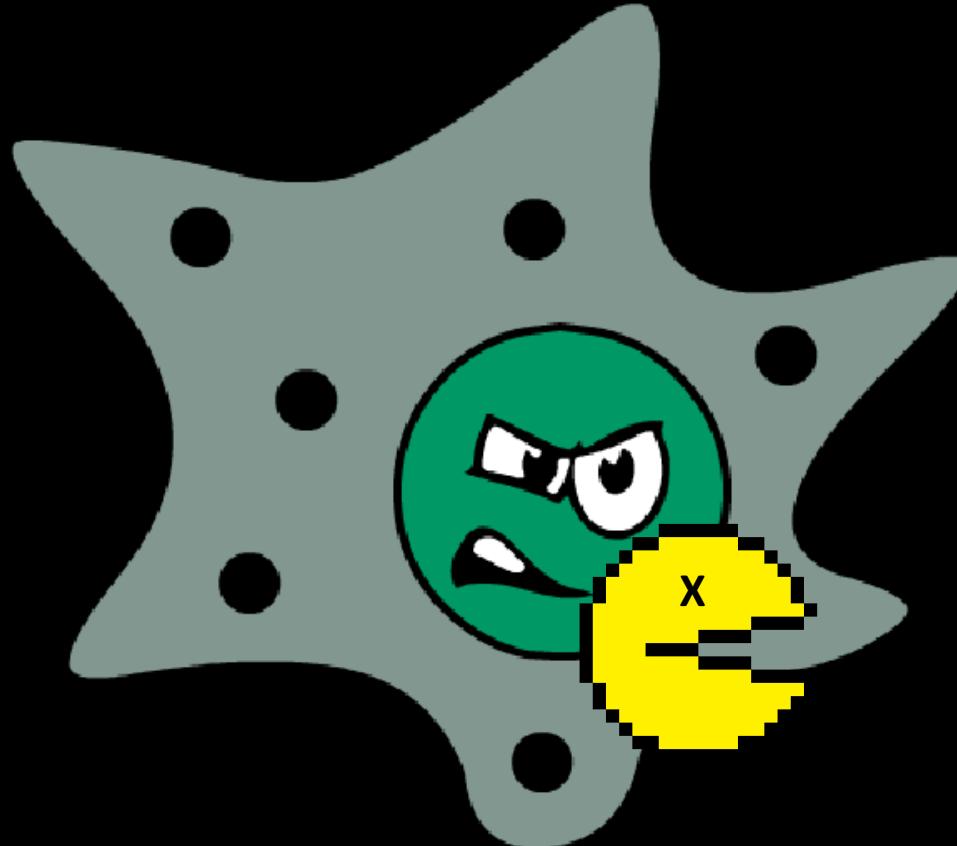
Game OVER

PAC-MONIA

# Game Mechanics



Only Rule:  
Don't get eaten!

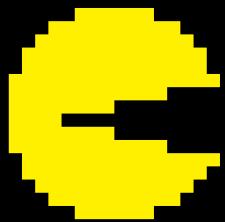


Game OVER



# Key Game Mechanics I

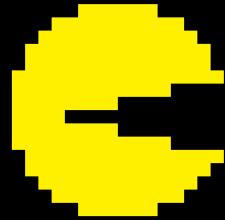
# Key Game Mechanics I



# Key Game Mechanics I



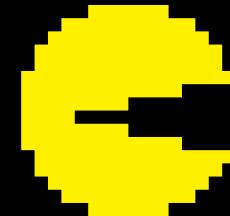
Ahhhhh....



# Key Game Mechanics I



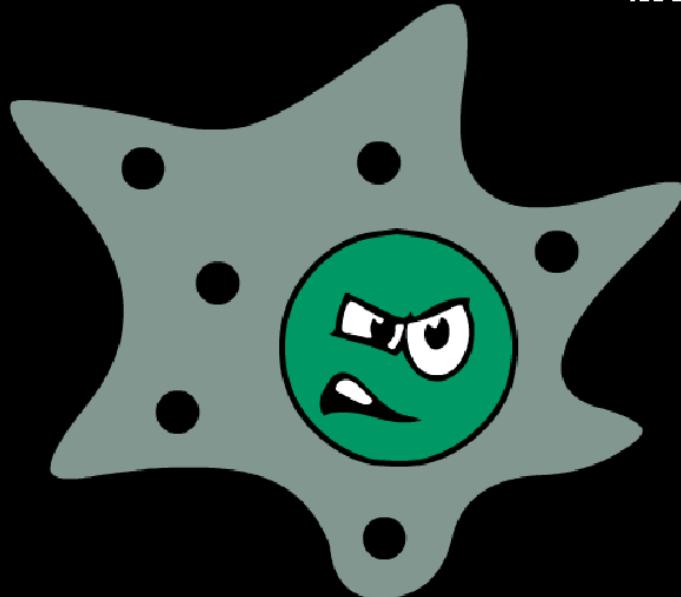
...F\*%K off...



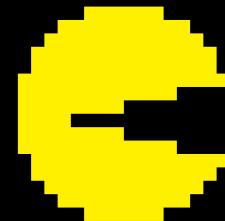
# Key Game Mechanics I

PAC-MONIA

All invaders  
must die!



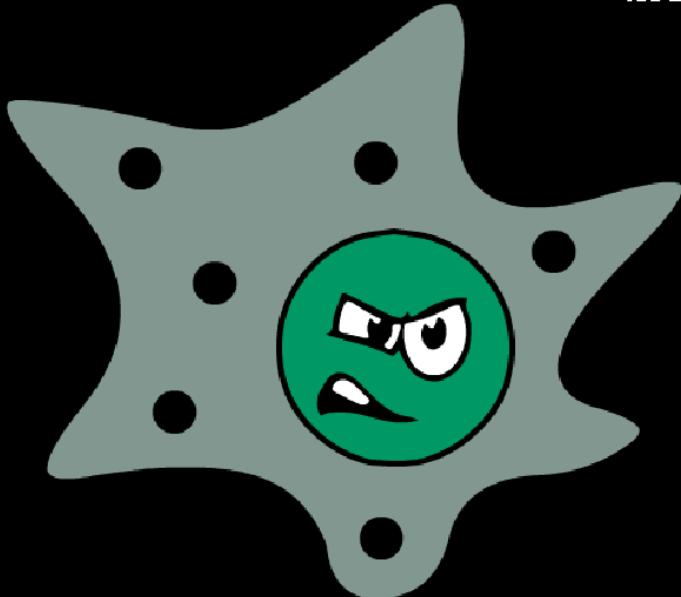
Don't eat  
me, I am  
just here  
to help!!!



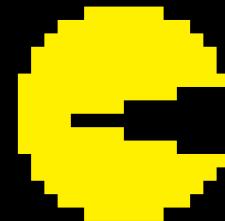
# Key Game Mechanics I

PAC-MONIA

All invaders  
must die!



Don't eat  
me, I am  
just here  
to help!!!

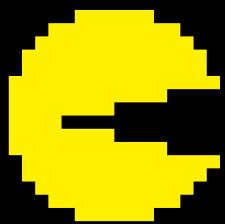


Pac-Man is  
considered as invader



## Key Game Mechanics II

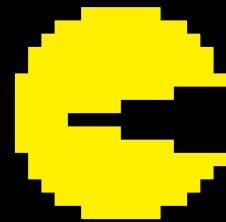
# Key Game Mechanics II



# Key Game Mechanics II



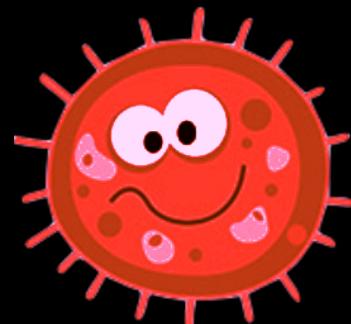
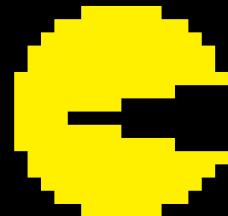
Alright...



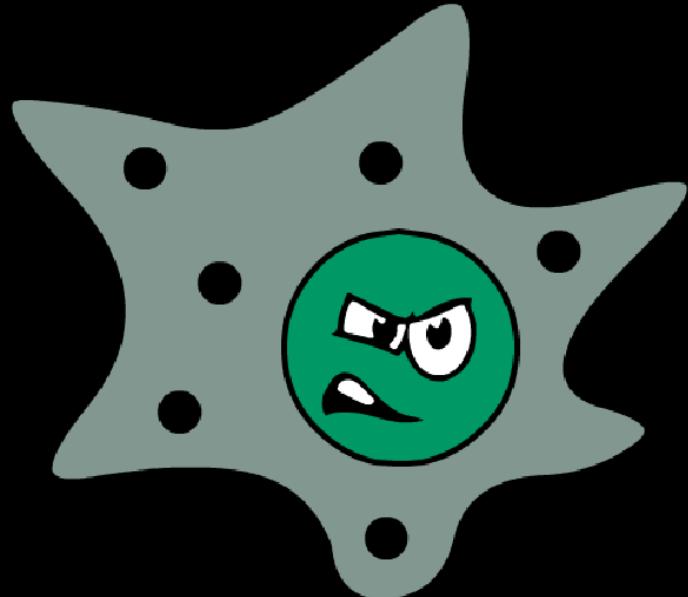
# Key Game Mechanics II



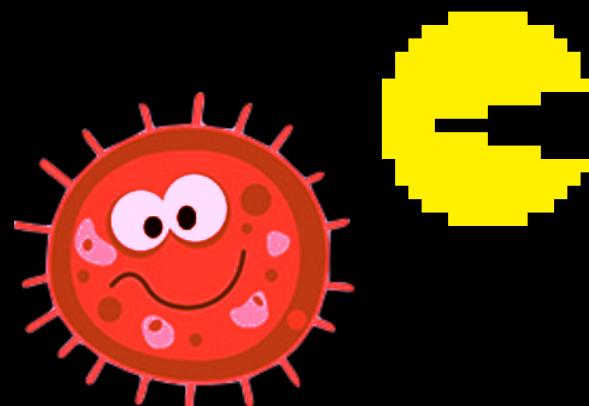
...if you follow  
me....



# Key Game Mechanics II



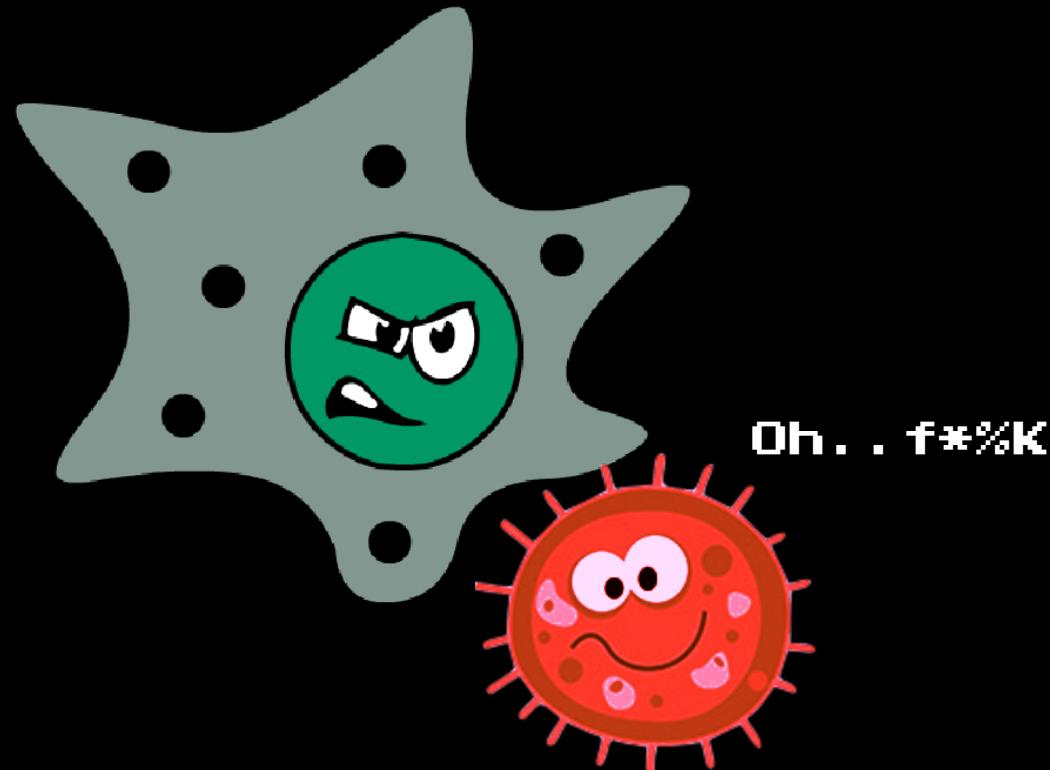
...atleast I can  
guide you to the  
actual  
infection...



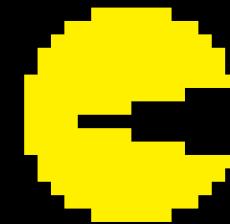
# Key Game Mechanics II



All invaders  
must die!



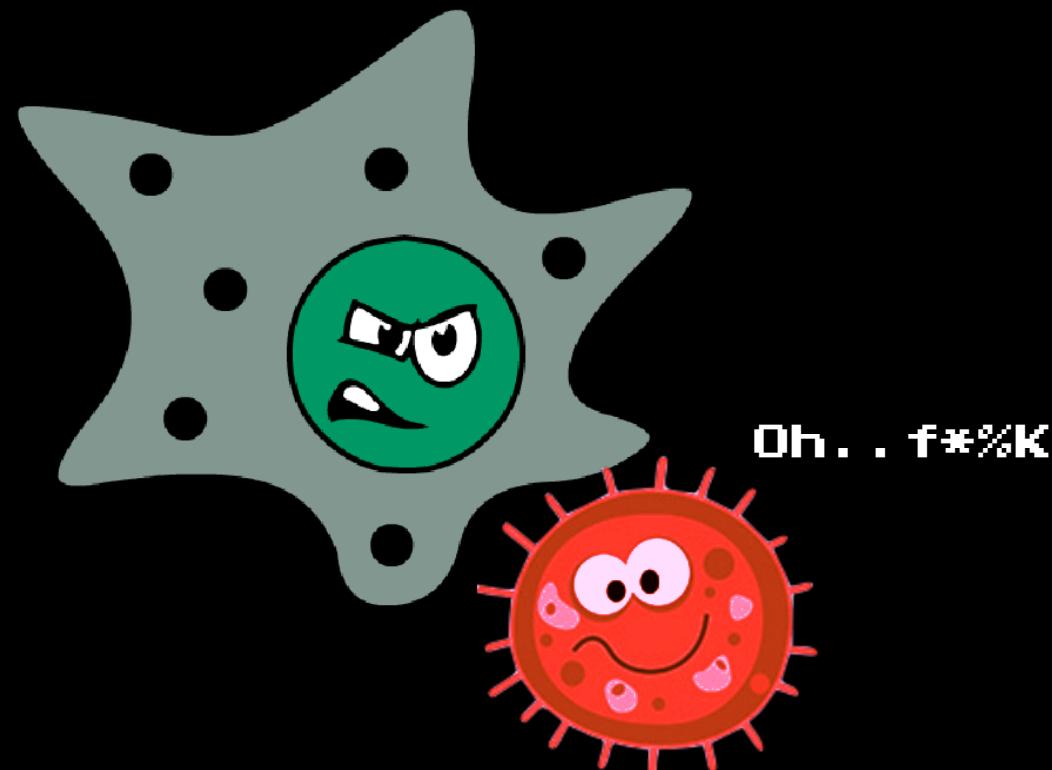
That's good boy!



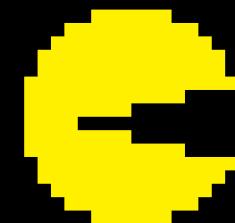
# Key Game Mechanics II



All invaders  
must die!



That's good boy!

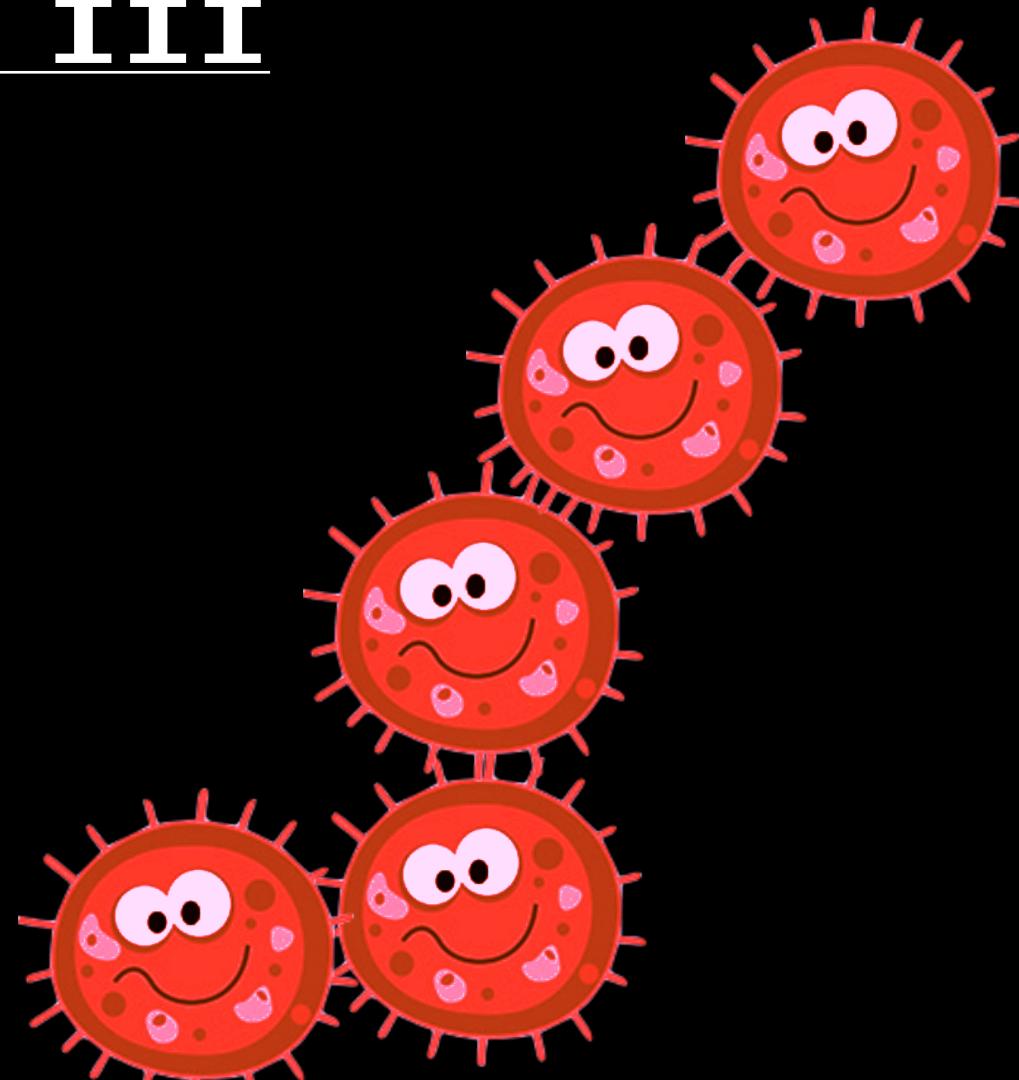
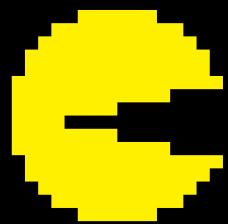


Pac-Man can guide the  
macrophage to bacteria



# Key Game Mechanics III

# Game Mechanics III

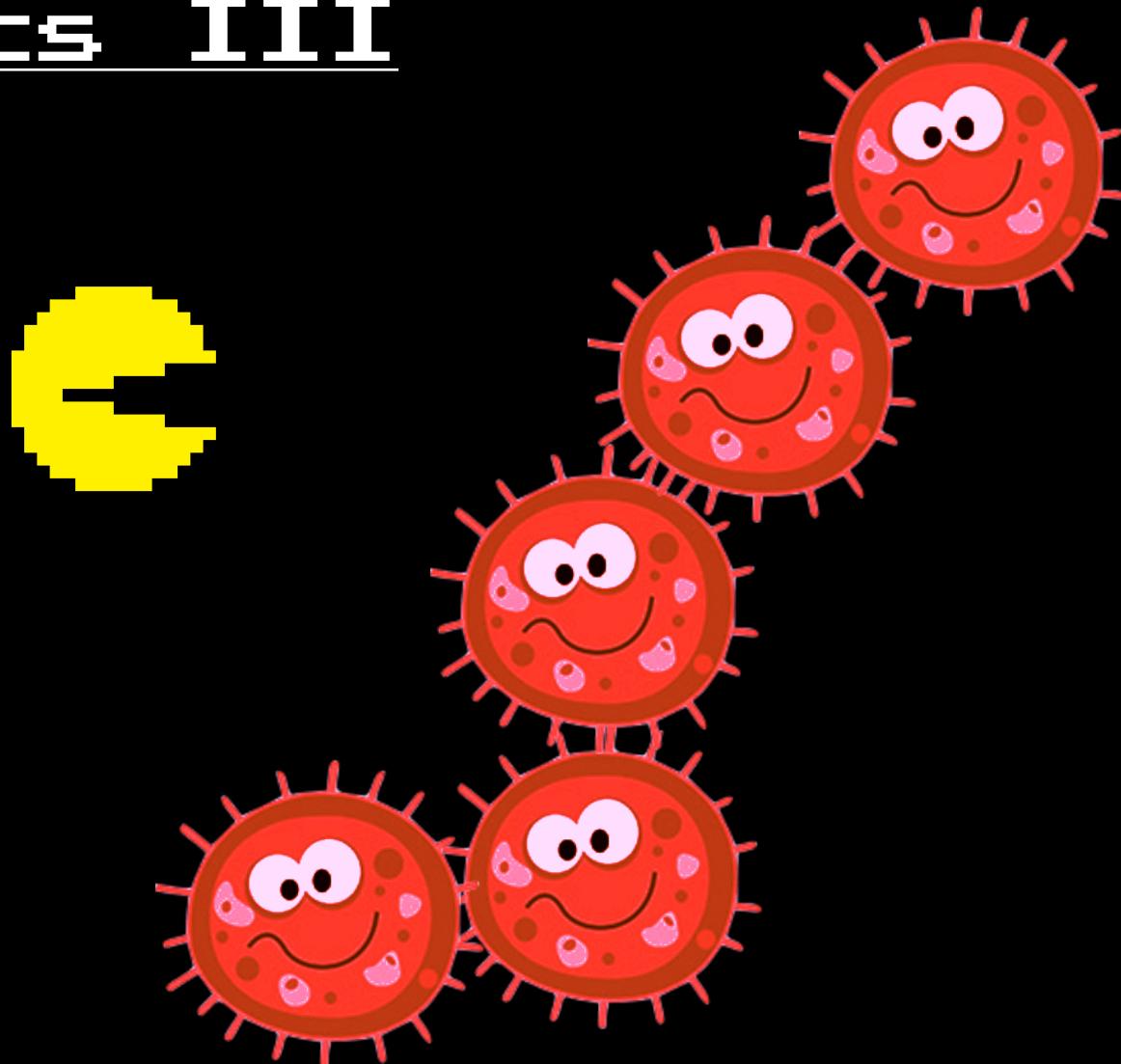


Pac-Man can guide the  
macrophage to bacteria

# Key Game Mechanics III



Ahhhhh....

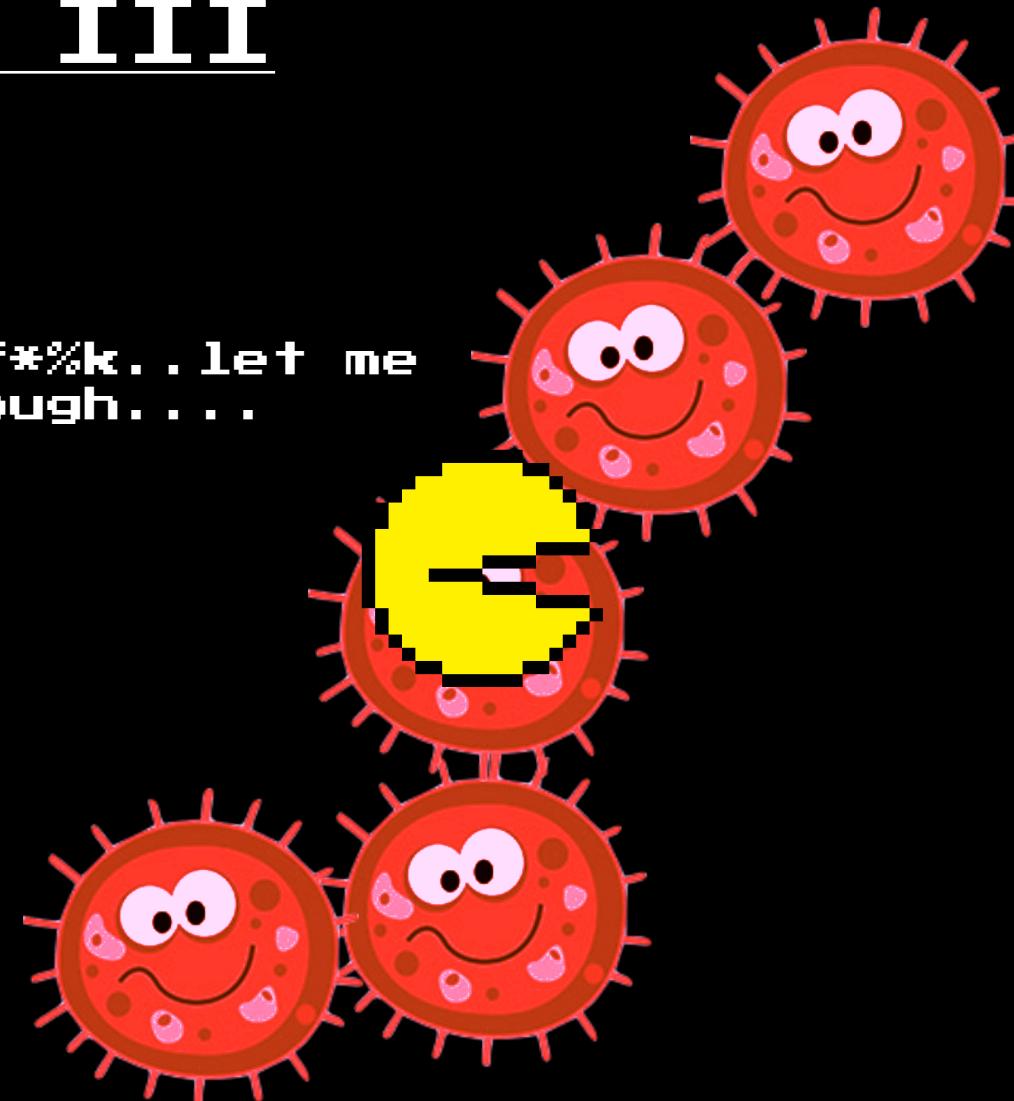


# Key Game Mechanics III

PAC-MONIA



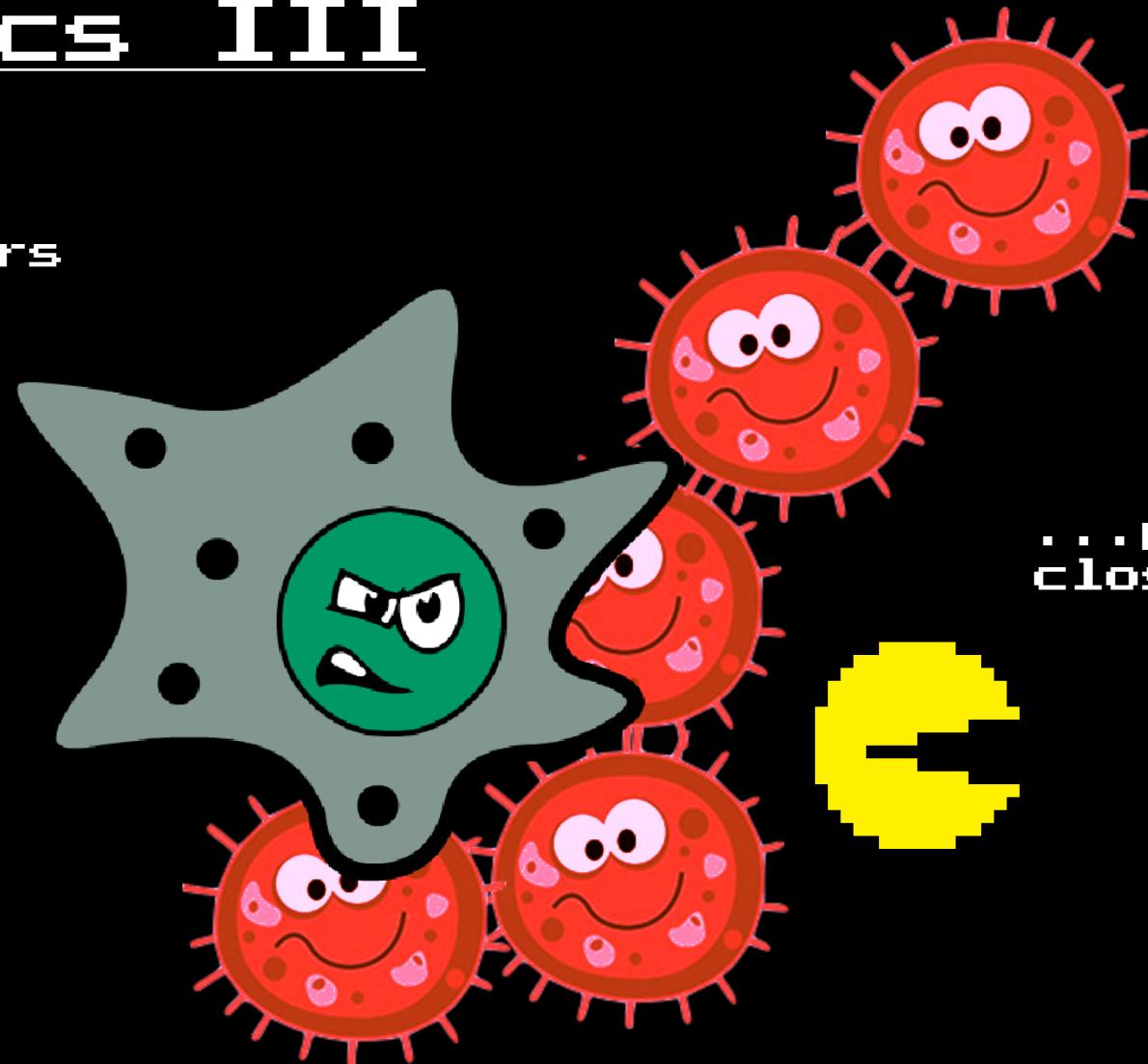
... f\*%k... let me  
through....



# Key Game Mechanics III



All invaders  
must die!

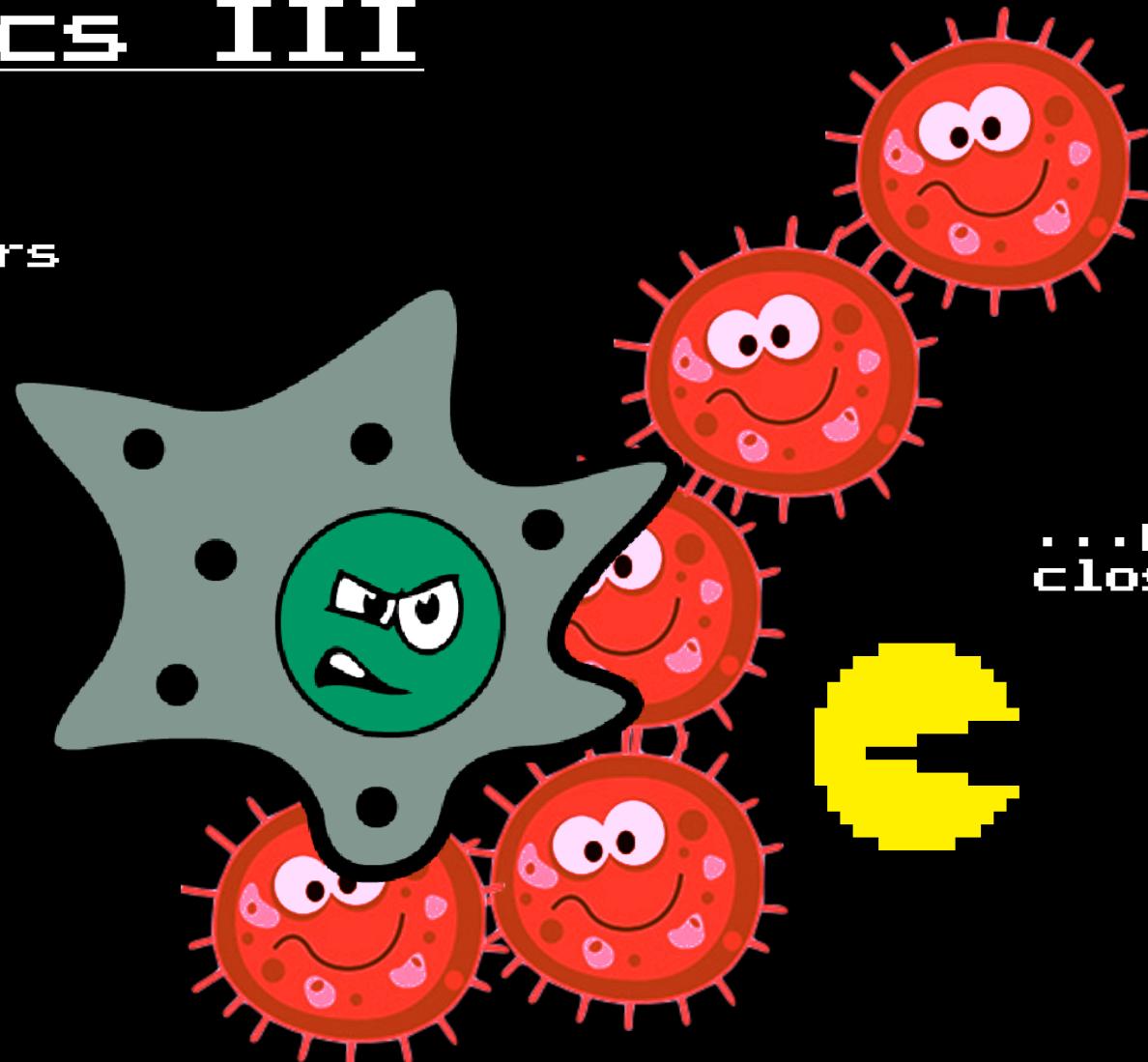


...puuh.. that was  
close....

# Key Game Mechanics III



All invaders  
must die!



Pac-Man is slowed down  
passing bacteria

# Other Game Mechanics



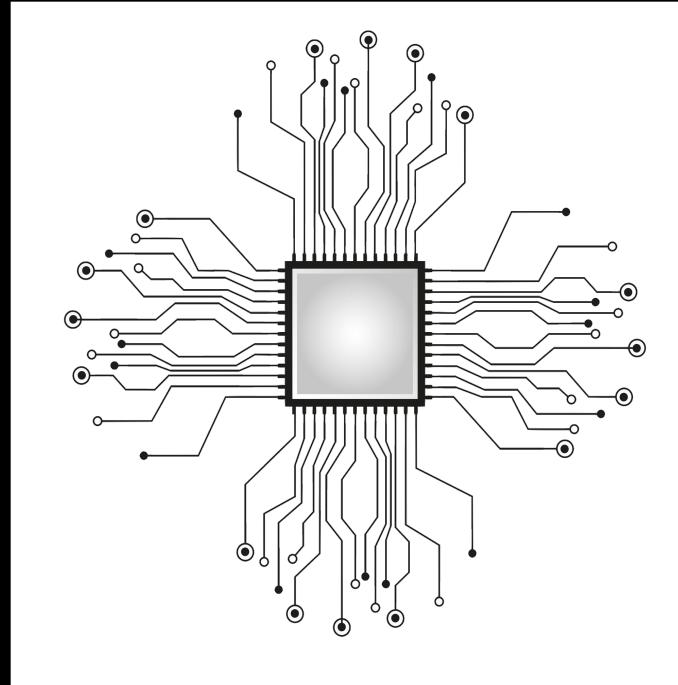
- Highscore game
- Increasing number of makrophages
- Increasing number of bacteria

# Model Assumptions



- Macrophage is able to detect, follow and "eat" the Pac-Man
- Pac-Man is influencing the macrophage ( $r_{critical}$ )

# Vision of our Serious Game Approach



Crowdsourcing  
CPU

```
01011011010
10110001100
11001000000
11011001100
00011101000
11100100100
00011101100
```

Pattern in  
the dark?



Brought to you by  
Sebastian, Michael, Rafael,  
Patrick, Christian

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