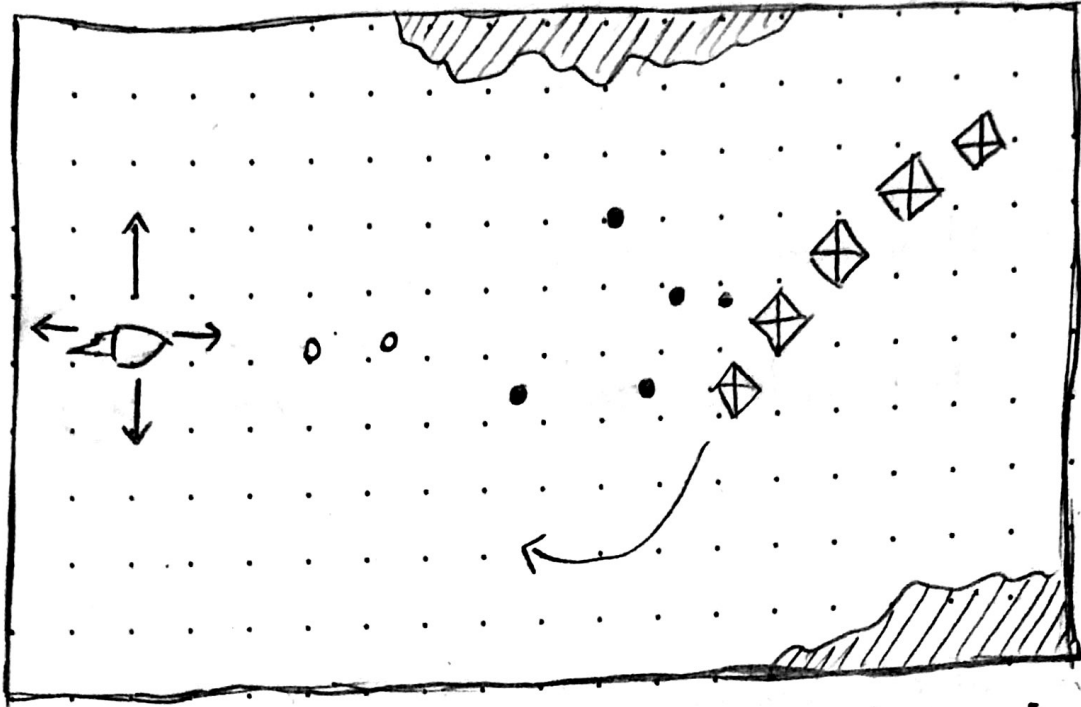


Delta 5 Game Design

kill enemies to get points

score 01000



game scrolling continuously --->



player controlled spacecraft



asteroid obstacle



player bullet



enemy bullet



moving enemies

Goal : To get as high of a score as possible

Options : Slow mode (regular speed)

Fast mode (speed up to get score quickly)

High level APIs

- Easy to use but "dumb"
- Imperfect, to encourage player to create better AI
- Least controls made available to player

Checking =

boolean atTop of Screen

boolean at Bottom of Screen

boolean enemy In Front

boolean asteroid In Front

Actions =

void shoot

void move Up

void move Down

Example AI =

if asteroid In Front () =

move Up ()

while asteroid In Front () or enemy In Front () =

if not at Top of Screen () =

move Up ()

else =

move Down ()

Low level advanced API

- Allows for more fine tuned controls

Checking:

int getPosition

int[] getAllEnemyPositions

int getNearestEnemyPosition

int getNearestBulletPosition

int getNearestBulletSpeed

Actions =

void shoot()