

### ATTACK ANIM TUTORIAL

This simple attack anim has 3 frames for the attack and 4 frames to return to idle

### IT'S ALL ABOUT TIMING



OR PLAYERS WILL FEEL INPUT LAG



FRAME 2 IS A BOUNCE, SO IT GOES MORE TO THE LEFT THAN FRAME 1

OTHER EXAMPLE



AINT1:



SINGLE PARTICLES CO BACK AND DO ANOTHER UNTIL THE SMOKE IS DONE





- Since I Want a tiny explosions I resolve the blast in 2 frames



















➡ •AVOid breaking the Shape too





### RUM CYCLE 1 SIMPLE RUN





UNDERSTOOD IN 4 FRAMES THEN YOU

MAKE THE ANIMATION MORE FLUID BY MAKING YOU CAN





JUNE

DONN





CONTACT

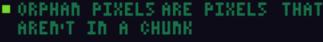
RECOVER

### PIXEL ART FUNDAMENTALS 1

THIS ARE SOME RULES I TEMD TO FOLLOW WHEN MAKING PIXEL ART. I FOCUS IN INCREASING THE READABILITY AND REDUCING MOISE



- AS A CEMERAL RULE I AVOID CREATING MANY PIXEL CLUSTERS
- DIACONAL PIXELS DON'T CONNECT VERY WELL



■ TOO MANY ORPHAN PIXELS CAN RUIN AN IMAGE, THEY ADD TOO MUCH MOISE



м



AND WHEN ANIHATING AND

■ KEEP TRACK OF CLUSTERS

I AVOID BREAKING CLUSTERS



- TO ADD STRONG DETAILS DITHER WHEN I CAN AVOID
- DITHER CAN BE USEFUL TO
- ADD TEXTURE IT EASIER TO READ
- ■REGULAR SHAPES ARE RECOCMIZE AMD LOOK CLEAM

## TOP DOWN RUN CYCLE











- ■NHEN DRAWING TOP DOWN SPRITES THINK OF THE HEAD, BODY AND FEET AS 3 SHAPES ON TOP OF EACH OTHER





- DOWN AMIN CAN BE MADE WITH ■A MINIMAL RUN ONLY 4 FRAMES
- ■THE SECOMD HALF IS THE FIRST HALF FLIPPED EXCEPT FOR THE HAIR AND OTHER ASYMMETRIES



#### JUMP FRAMES HAIR AND CLOTHES COINC UP



RECOVER FRAMES FRAMES OF SMITCHING

LEGS THE LOWEST POSITION

THE SIDE AND BACK ANIMS FOLLOW THE SAME IDEA® JUMP FRAMES 2 RECOVER FRAMES

LEG STRECHEDS



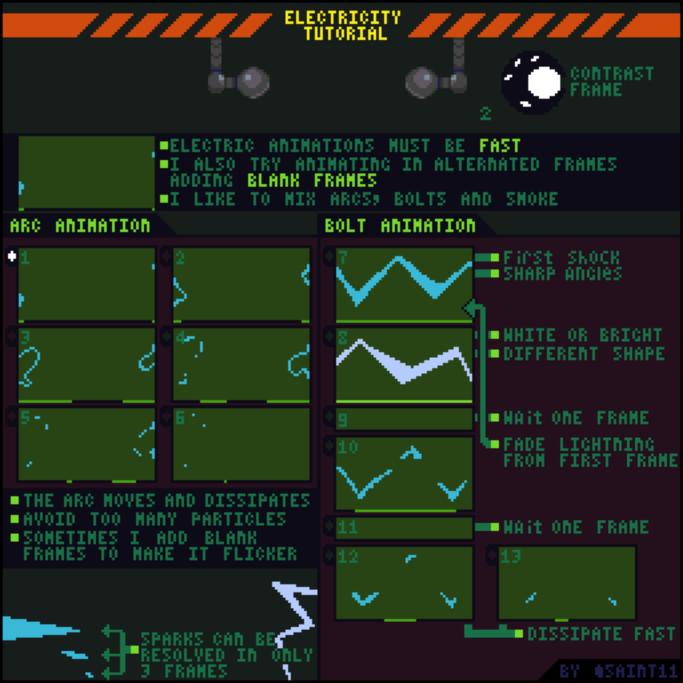


I LIKE TO EXAGERATE ARMS MOVEMENT TO MAKE IT MORE EXPRESSIVE





- ALTERNATIVELYS YOU CAN USE THE PLATFORMER RUM CYCLE WITH SOME CHANCES
- THE BACK LEG IS MOSTLY HIDDEN



#### TUTORIAL GLITCH EFFECT

WHEN MAKING GLITCHES I MAKE A BUNCH OF DIFFERENT EFFECTS:
THEN COMBINE THEM. HERE'S SOME IDEAS FOR EFFECTS:

#### HORIZONTAL DISPLACEMENT



MOVE SOME HORIZONTAL STRIPS SOME PIXELS LEFT OR RIGHT? BUT CAREFUL NOT TO OVERDO IT







#### BAD V-SYMC AMD FLICKER



VERTICALLY OFFSET THE IMAGE AND ADD RANDOM BLACK AND WHITE BARS ALSO ADD BLACKS WHITE AND NOISE FRAMES







#### CORRUPTION



MAKE SQUARE SELECTIONS AND MOVE THEM AROUNDS ADD RANDOM NUMBERSS BLACK SHAPESS GLYPHS.







#### SCANLINES AND COLOR BLEED



SELECT SCAMLINES AND MESS AROUNDS LIKE MOVING 1PX OR CHANGING COLORS MUDGE COLORS TO RIGHT









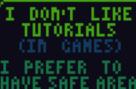
### LEVEL DESIGN PROGRESSION

FOR MEY MAKING LEVELS IS ALL ABOUT TEACHING LIKE SCHOOL:TEACH THE THEORYS THEM



Ø





AFE AREAS



MAKE PLAYER PRACTICE

HAVING HARDER CHALLENGES

TOOL



IS IMPORTANTS





FOAM CAN BE ANIMATED PARTICLE SYSTEM

MAVES MOVE Ιħ THIS PATTERN

- ■BUBBLES HAVE RAMDOM HORIZONTAL MOVEMENT
- ■BUBBLES CAN FADE OR RISE THE TOP

 THINGS UNDERNATER ARE ALSO DISPLACED IN A SIME WAVE MOTION



### LOOPING

ANIMATION . LOOP IS Aħ. WHERE THE LAST FRAME WOULD COME BEFORE THE MAKE MULTIPLE OVERLAPPING WHEN THE ADIMATION



#### BODY IDLE BOOK CYCLE

BECLOAK FX

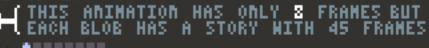
ANIMATIONS : <u>DURATIONS</u> COMFUSES EYE AND MAKES IT THE SEE WHEN THE LOOP STARTS OVER TO:



IT'S POSSIBLE TO MAKE AM AMIMATIOM WITH MORE FRAMES THAN THE FILE FRAME COUNT IF YOU OF TI I

ROTATING

//////





ALL THIS APPLIES



THE BIG FLAMES CREATED AND WHEN



TO MAKE THE LOOPS START AT RAMDOM FRAMES

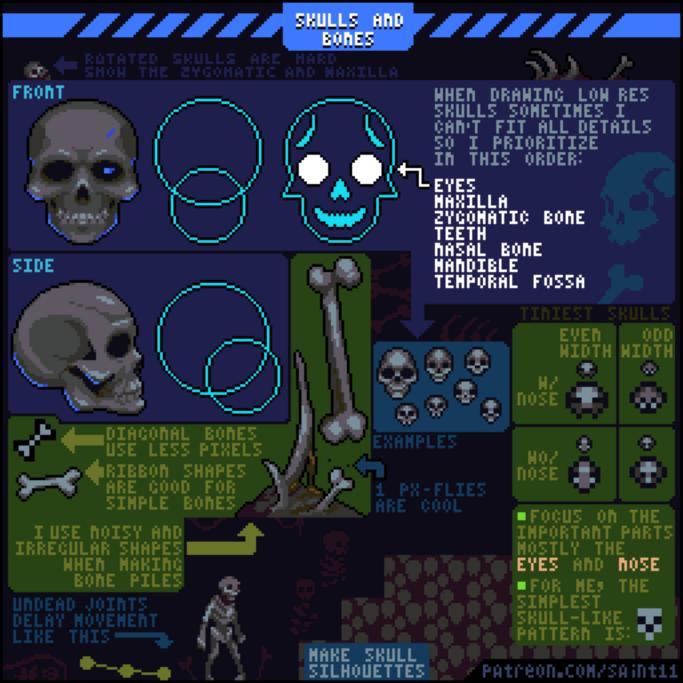
AVOID STARTIMC ALL LOOPS ON THE SAME

FRAME



REOM.COM/SAIM1





#### CHARACTER DESIGN 1

STORY. CHARACTER IS LIKE TELLING A TELL THEIR STORY BY THEIR LOOKS, THE SILHOUETTE CHARACTERS -VIEWER IS THE PROLOCUE, THE FIRST THING THE WILL MOTICE

#### THOUGHTS AND EXAMPLES



- SHAPES - MAY CHANCE -WHEM ADDING DETAILS
- ■DON'T WORRY® JUST FOCUS ON TELLING A STORY A SWORD \_\_ \_\_HUMANOID SHAPE

\_\_\_\_

SMAKES AND SPIDERS®

SHAPES, LONG LIMBS, POINTED EDGES



MAMMALS DON'T LIKE



- DANCER DON'T LIKE COMPLICATED AND SHARP AL50 COMVEY
- MORRY
- AMD YOU MAKE SURE

READ EASY TO

TRY TO ADD STRONG ELEMENTS TO THE SILHOUETTE, SOMETHING THAT WILL MAKE IT EASY TO RECOCNIZE THEM.



-FLAT HEAD ∞TANK TREADS

PROCESS IS: DRAWING SILHOUETTE SKETCH→ ADD DETAILS -- ANIMATE

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#### ANIHATION PLANNING

MAKE COMPLEX AMIMATIONS I USUALLY HAVE MEED TO AHEAD AMD SKETCH EVERYTING. HERE'S A BREAKDOWN OF

#### STILL FRAME



- TO KMOW WHAT I AM
- THE FIRST FRAME OF THE IDLE ANIMATION

#### ROUGH SKETCHES





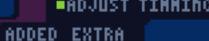
#### KEYFRAMES

- FRAMES AND FINISH THEM
- AN ANIMATIONS DEFINE IMPORTANT POSES TO DESCRIBE Αħ ACTION





■ADJUST TIMMING

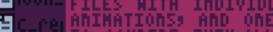


FRAMES

#### OTHER TIPS











SPIN

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#### EXPLOSIONS PART 1







#### 1 CONTRAST FLASH

THIS WILL MAKE OTHER FRAMES FEEL

2 WHITE FLASH

■SÖMETIMES I ADD SOME SHRAPMEL OR

LICHT LIMES 3 SHARP BLAST

**■**USE SHARP ANGLES

■AVOID MOISE

#### 4+ FADE

■FIRE FADES QUICKLY

**■SMORE FADES SLOWLY** 

THIS EXPLOSION STYLE NEEDS AT LEAST 4 FRAMES, BUT MORE FRAMES WILL MAKE A SMOOTHER ANIMATION

> ■BE AWARE OF SURROUNDINGS ■YOU CAN ADD FLYING BITS AFTER THE EXPLOSION IS DONE

ADD MULTIPLE EXPLOSIONS FOR AN EXTENDED EFFECT



## PARALLAX AND DEPTH

PARALLAX IS THE ILLUSION THAT AM OBJECT IS CHANGING ITS POSITION DEPENDING ON THE ANGLE YOU LOOK AT IT. -LOVE EXAMPLE IN THE PATREON POST (IT'S FREE) CET



REMDER PSEUDO-CODE

| RENDER X | (X | CAMERA X) | SCROLL\_FACTOR | OFFSET X RENDER Y Y CAMERA Y SCROLL\_FACTOR OFFSET Y

|DRAW\_AT(REMDER\_X|REMDER\_Y)

CAMERA MOVEMENT SPEED IS 2 PIXELS PER FRAME LAYER MOVES AT A DIFFERENT SPEED. SCROLL FACTOR ADJUSTS THAT

IF I CARS I LIKE TO ADD A FORECROUND TO MY CAMES SCROLL FACTOR THAN ONE DEPTH

UI AND OTHER ELEMENTS THAT UMMAFECTED BY CAMERA ZERO AND ARE OFFSET VARIABLE

//////

FACTOR IS ALWAYS BICCER THAM ZERO SCROLL

CLOSE

FAR



SATURATION HIGH LOW CONTRAST HICH LICHT BRICHT HUE нот COLD DETAILS MADYE **XTHERE ARE** 

■OBJECTS CLOSER TO THE CAMERA MOVE FASTER AND ARE USUALLY ICHTER

■OBJECTS FAR AWAY ARE LESS SATURATED AND CAN TO THE SKY COLOR



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### CET SOME "LOVE CODE EXAMPLES



#### OUTLINES

- ■TINT THE SPRITE BLACK OR OTHER COLOR
  - DONNY LEFTY
  - REMDER IT AS USUAL

- X. SPRITE: C\_BLACK



- MODULO DRAW THE SPRITE
- PSEUDO-CODE
- ITF CAME\_TIME 4
- -- DRAM(SPRITE, X, Y)
- ÞÉÚSE ⊢Þ// DOM:T

### CAMELTIMER 4 29

- UNDERWATER / CHOSTLY



- PSEUDO-CODE
- SPRITE\_HEIGHT 10
- (I=09 I<109I++)





#### PIXEL ART PIPELINE



#### IMAGE SIZE

- THIS IMAGE IS 48848 PIXELS
- -WHEN NOT SURE GO WITH SMALLER SIZES

#### BACKCROUND

-DRAW FROM BACK TO



#### SKETCH

- ■DOM·T WORRY ABOUT DETAILS
- ■FOCUS ON SHAPE AND CEMERAL IDEA



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# PINEL ART PIPELINE









#### IMAGE SIZE

- ■THIS IMAGE IS 48X48 PIXELS
- WHEN NOT SURE GO WITH SMALLER SIZES

#### BACKCROUND

DRAW FROM BACK TO



#### SKETCH

- ■DOM·T WORRY ABOUT
- ■FOCUS ON SHAPE AND GENERAL IDEA



# PIXEL ART PIPELINE







#### IMAGE SIZE

- THIS IMAGE IS 48848 PIXELS
- WHEN NOT SURE GO WITH SMALLER SIZES

#### BACKCROUND

-DRAW FROM BACK TO FROMT



#### SKETCH

- ■DOM'T WORRY ABOUT DETAILS
- ■FOCUS ON SHAPE AND GENERAL IDEA



FIXED THE POSE







#### SILHOUETTE

- ■CHARACTER MUST BE RECOCMIZABLE FROM THE SILHOUETTE
- ■DOM·T WORRY TOO MUCH ABOUT DETAILS

#### COLOR BLOCKS

- ■FOCUS ON THE BIG COLOR MASSES
- SOME DETAILS ARE GOOD BUT DON'T WASTE TOO MUCH TIME

#### OUTLINE

- I LIKE TO OUTLINE THE OUTSIDE OF IMPORTANT OBJECTS
- I ALSO ADD OUTLINE TO THINGS IN FRONT OF THE OBJECT



# PIXEL ART PIPELINE







#### SILHOUETTE

- ■CHARACTER MUST BE RECOGNIZABLE FROM THE SILHOUETTE
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SOME SILHOUETTE FIXES







#### SILHOUETTE

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#### COLOR BLOCKS

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#### OUTLINE

- ■I LIKE TO OUTLINE THE OUTSIDE OF IMPORTANT OBJECTS
- ■I ALSO ADD OUTLINE TO THINGS IN FRONT OF THE OBJECT



KEEP IMPROVING







#### LICHT

- ■ADD COLOR BY COLOR
- ■AVOID MOISE OR TOO MUCH DETAIL



I PREFFER USING BIG PIXEL CLUSTERS

#### DETAILS

- KEEP ADDING COLORS
- FINALLY ADD DETAILS TO THINGS IN FOCUS
- ADD FEWER DETAILS TO FAR THINGS

#### EXTRA FIXES

- ■CLEAM UP MOISE AMD ORPHAM PIXELS
- #ADD SMALL



- CHECK THINGS LIKE:
  - PROPORTION
  - LICHT DIRECTION
  - HARD TO READ AREAS







#### EHCKGKU

#### LICHT

- ADD COLOR BY COLOR
- ■AVOID MOISE OR TOO MUCH DETAIL





■I PREFFER USIMG BIG PIXEL CLUSTERS

#### DETAILS

- KEEP ADDING COLORS
- FINALLY ADD DETAILS TO THINGS IN FOCUS
- ADD FEWER DETAILS TO FAR THINGS

#### EXTRA FIXES

- CLEAN UP NOISE AND ORPHAN PIXELS
- ADD SMALL HIGHLIGHTS



- CHECK THINGS LIKE:
  - PROPORTION
  - LIGHT DIRECTION
  - -HARD TO READ AREAS

SMALL HIGHLIGHTS







LICHT

KEEP

ADD COLOR BY COLOR

■AVOID MOISE OR TOO MUCH DETAIL



PREFFER USING PIXEL CLUSTERS

#### DETAILS

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# ADD SMALL
HIGHLIGHTS



- CHECK THINGS LIKE:
  - PROPORTION
  - IGHT DIRECTION.
  - -HARD TO READ AREAS

# RUIMS THIS OBJECT DETAILS RUINED? **NOT** EXACERATE THE DAMAGE RECENT COBMERS

UMEVEN SURFACES

RUINS



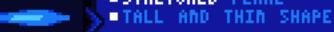
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# SPACESHIP PROPULSION

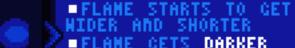


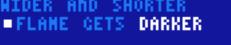
■BRIGHT FRAMES LIKE A















YOU MAY ALSO MAKE THE PROPULSION WITH

PARTICLES» LIKE THIS:

CAREFUL:

IF THE SHIP MUCH CONSIDER MAKING THE PARTICLES PROCEDURALLY

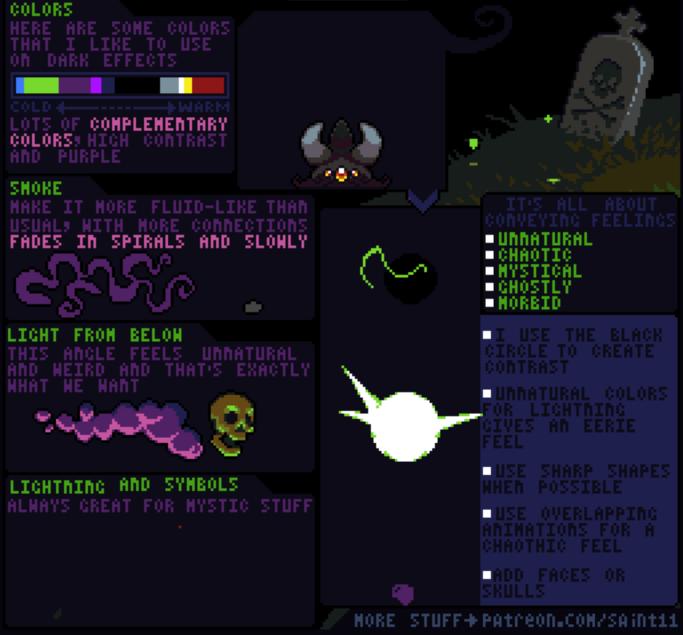
MAVY» FIRE-LIKE PATTERNS CHECK MY FIRE TUTORIAL



MOVES:

SPARKS CAM ALSO WORK IF THERE'S ATMOSPHERE MY EXPLOSION AND SMOKE TUTORIAL





DARK MAGIC EFFECTS

### PORTRAITS









1 START WITH A ROUGH LINE SKETCH. IN SMALL RESOLUTIONS I LIKE

TO USE COLORED LIMES.

2 FILL AREAS WITH BASE COLORS. FILL ONLY BIG AREAS, AVOID DETAILS. 3 BLOCK OUT LIGHTS. ALSO START FIXING DETAILS, CHECK FOR PROPORTION ERRORS AND FIX LINES: (→

4 ADD HICHLICHTS» DETAILS AND ANTI ALIAS. I LIKE TO ADD A BLACK BORDER FOR CONTRAST TOO.

### HERE'S SOME OF MY FAVORITE PROPORTIONS?

REMEMBER THAT EVERY FACE IS DIFFERENT

LEARN BASIC PROPORTIONS, SO YOU CAN DISTORT THEM







# WINGS/FLYING



■THE MOVEMENT OF THE WING USUALLY HOVEHENT ■COIMC UP IS MUCH FASTER COINC







FALLING DOWN ■FALLING» ONE PIXEL PER FRAME ■NINGS RISE WHILE FIGHTING





■CO UP FAST9 3 ■KEEP COINC UP# SLOWER# 1 PIXEL

CRAVITY



■MINGS GO DOWN AND ALMOST TOUCH THE OTHER





■CO DOWN 1 PIXEL THEM STABILIZE/STOP ■MINGS CETTING BACK TO OPEN POSITION

### **EXAMPLES** OTHER

**□**SUBPIXEL

REALISTIC



USEFUL

MOVEMENT MAKES IT



BLUR

■FAST HAVE FEWER FRAMES MULTIPLE DRAW FOR MOTION WINGS



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### ROCK FORMATIONS



- ■MADE OF LAYERED MATERIAL
- ■SOFTEST TYPE® **CRUMBLES** A LOT
- **■BIG SOFT HIGHLIGHTS**

## CAREFULT

- ■AVOID ORPHAN PIXELS AND ADDING TOO MUCH NOISE
- DONT USE TOO MANY COLORS

## METAMORPHIC



- ■MADE FROM ICHEUS OR SEDIMENTARY
- ■STRONGER HIGHLIGHTS
- ■STRONG® BREAKS IN LARGER CHUNKS
- **-**LARGE CLEAN AREAS

START WITH THE SILHOUETTE

- **▼**ADD BASE SHADONS
- **▼**ADD MORE LAYERS
- MITH H SUPTEM SHHOUL
- ■HDD HIGHLIGHT HKEHS
- REDUCE MOISE
- **▼CRUMBLING PARTS**



- ■MADE FROM LAVA9 MELTED ROCK
- ■HAS ROUNDED SHAPES
- **-**CAS BUBBLES\_CAN CAUSE\_HOLES
  - AMD VERY POINTY SHAPES
- ■CHN BE VERY POROUS9 VERY SOFT HIGHLIGHTS





DETAIL AND CONTRAST

TEXTURE LHOST ROOVES

DETAILS

AND DON'T APPEAR IN LOW CONTRAST AREAS

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# PIXEL ART FUNDAMENTALS 2

### LINE FUNDAMENTALS











TEP SHOULD BE **SHALLER** THAN THE PREVIOUS

CH THE "COKNEK" BACKNARDS9 INCREASING THE STEP SIZE



## CORMERS





## UNINTENTIONAL SQUARES













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- **■**GEMERAL SHAPE
- AMD SPECULAR

METAL COLOR RAMP





- - CARES

## BULLETS

### COLOR RAMP



## BULLETS BIGGER SO PLAYERS CAN SEE THE

## BULLET DAMAGE

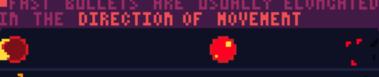


## FEEDBACK



## SPEED

■FAST BULLETS DO NOT NEED AS MANY DETAILS OR ANIMATIONS ■FAST BULLETS ARE USUALLY ELONGATED





ESPECIALLY IF THE BULLET

BE CREATIVE WITH THE BULLET SHAPE



















### CHARACTER IDLE

REALLY LIKE TO MAKE VERY BOUNCY CHARACTER IDLES HERE'S A FEW THINGS I KEEP IN MIND AND SOME SOMEWHAT EXACCERATED EXAMPLES



### FRAMES

THE BASIC IDEA FOR MY **BOUNCY IDLE** IS:

M•MOVE DOWN ONE PIXEL® OPEN ARMS® BEND KNEES M•NOVE UP ONE PIXEL® ARMS MOVE **DOWN** 



### FRAMES

"FALL DONN" SLOWER

THE KNEE BEND **TRANSITION** BETTER THE HEAD **TRANSITION** SMOOTHER BY

**DELAYING** THE FACE MOVEMENT



### **6 FRAMES**

■NITH MORE FRAMES I LIKE TO ADD SECONDARY ANIMATIONS: LIKE THE HAIR LAGGING BEHIND

■HERE I LIKE TO ADD LOTS OF **<1 PIXEL MOVEMENT** 

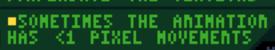


MOVE THE CONTENTS OF THE FACE/BODY/ETC AFTER THE SILHOUETTE HAS MOVED

FOR SHOWING THE CHARACTER'S PERSONALITY USE IT TO SHOW SPECIAL ANIMATIONS SUCH AS:

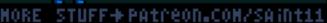


- MOVEMENT ALONE ■VERTICAL : BORING
- HORIZONTAL





- BLINK
- Yawn
- LOOK AROUND
- SCRATCH



## MAKING TILES

### MAKE A MASTER TILE

BY MAKING A "FULL" TILE THAT WRAPS ON ALL 4 EDGES



- ROUGH





MAKE THE MAIN EDGE TILES



MAKE





BOT

THE OTHER TILES

YOUR AND SYSTEM



HORIZONTAL AND VERTICAL TUBES

CUIDE ON THE USUALLY MAKES



TOP

ESPECIALLY FOR THE MIDDLE AND TOP TILE



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## BLOOD AND CUTS

■DOM:T OVERDO THE BLOOD DROPS OR IT WILL LOOK TOO MESSY ■I OMLY USE ORPHAM PIXELS WHEM DRAWING IM VERY LOW RESOLUTION ■TRY TO USE ROUND SHAPES WHEM POSSIBLE



THEM I SPREAD IT WHILE **Still commecting** particles to each other for as long as I can



RESISTANCE SHOULD BEND IT I LIKE TO ADD CRAVITY, MAKING THE PARTICLES FALL BEFORE FADING

■I ALWAYS AVOID ORPHAN PIXELS UNLESS IT'S THE LAST



- USE HUE VARIATIONS SO THE WHOLE THING WON'T LOOK BORING GUTS ARE MOSTLY LIKE A BUNCH OF TUBES AND WATER BALLONS
- ■ADD SHALL SHINY SPOTS TO SHOW THAT IT'S WET AND SLINY

# FABRICAFLACS



■FABRIC IN THE WIND MOVES IN A SINE WAVE-LIKE PATTER

IN H SINE WHYE-LIKE PHITEKN ■I INAGINE THAT THE MOVEMENT IS OFFSETTING IN THE

- ●AVOID ADDING TOO MANY FOLDS OR IT CAN GET FOO NOISY
- ■DARK AREAS HAVE **LESS** DETAIL
- ■MOVE THE CLOTHS BUT RESPECT THE AMATOMY BELOW IT?



■I LIKE TO DRAW A **LIME** AS A GUIDE

►LICHT AND SHAD SHOULD MOVE ANAY FROM THE WIND SOURCE

- ■DETAILS CAN BE OFFSET BY FOLDS
- ■MOST FABRIC HAVE ONLY SOFT SHADONS AND NO HIGHLIGHTS
- ■FABRIC FOLDS IN PARALLEL IN PLACES OF GREATER TENSION
- ■FABRIC FOLDS PERPENDICULARLY IN PLACES OF LESS TENSION



- ■FOLDS USUALLY RADIATE FROM A POINT WHERE THE FABRIC IS COMPRESSED
- ■REMEMBER THAT FOLDS PROJECT SHADONS ON THE FABRIC ITSELF



# ENVIRONHENTAL HAZARDS

SHEET THAN A TUTORIAL PER SE. MORE LIKE A LOOK FOR IN A HAZARD ARE: THE ACTION)

A TRAP MEEDS TO BE

■SOME OBJECTS CAN AFFECT THE CAME Lichting

-THINK OF THE CAME AUDIO WHEN DRAWINGS



USE MÖTIÖN BLUR FAKE IT

DETECTABLE

RHYTHM AMD

PREVISIBILITY ARE IMPORTANT SO THE PLAYER KNOWS HOW TO AVOID TRAPS

THE ACTION ■A COOD IMPACT SHOW THE

■ADD A TELL BEFORE

LAYER HOW Angerous the TRAP IS SHARP SHAPES AMD SPASMIC MOVEMENT CONVEY DANGER



■RED OR LIGHT GREEN ARE CREAT FOR DANCER ZONES





## CLOUDS

- ■START BY THINKING IN GROUPS OF SPHERES WITH A FLAT BASE
- ■MAKE THE LIGHT ON THOSE SPHERES
- ■AVOID USING TOO MANY PIXEL CLUSTERS
- ■FLAT COLOR FOR THE BASE
- -HUE SHIFT THE SHADONS
- KEEP LOW CONTRAST

SINCE THE SUN IS BEHIND THE CLOUDS IT MAKES A BRIGHT OUTLINE
THE SHADOW IS USUALLY BELOW THE CLOUD IN THE FLAT AREA

THERE ARE MANY TYPES OF CLOUDS WITH DIFFERENT RULES» ALWAYS LOOK FOR REFERENCE IMAGES!

■FAR AMAY CLOUDS ARE FADED ■CLOSER CLOUDS HAVE STRONG

//////

- CONTRAST
- ■I LIKE TO START FROM THE BACKCROUND AND MOVE FOWARD

## SHADING



## SHIFTING

- Aħ. OBJECT IT'S INTERESTING TO ONLY THE BRIGHTNESS
- TOWARDS THE COLOR MHEEL

### BAND COMPRESSION



TO COMPRESS BANDS HARDER TO SEE STEPS

LICHTER HUES DARKER HUES

EDGE

CAST

EDGE



### COMMON CONCEPTS



## MAYS

- WAYS OTHER AND LIKE:









DARKER

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# QUADRUPED Walkytrot





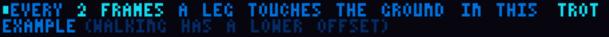












DIFFERENT







HAVE









- MOVES
- PAN LACS



MOVES FAST CONTACT AND Shaps RELEASE

FROMT LEG 3

MOVES

## OUTLINES

LOT OF SPACES SO IT'S A GOOD IDEA TO WHEN WORKING IN VERY LOW-RES OUTLINES TAKES A LOT OF AVOID POSSIBLE

## SEPARATING SHAPES

-USE OUTLINES TO SEPARATE SHAPES



SPHERES



## SELECTIVE OUTLINING

M USE A DARK COLOR OF BLACK FOR A SOFTER DARK COLOR OUTLINE

LICHTER AREAS FOR AN EVEN





OUTLINE SHADING

## PIXEL-PERFECT



//////

A DIRTY LIME UP UNWANTED CORNERS

LINES



## REINFORCE SHAPES

ARE SQUARE USE THIS TO CREATE

USEFUL TO ADD MORE DETAIL LOW-RES IMACES





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## **MALK CYCLE**

### 12 FRAMES

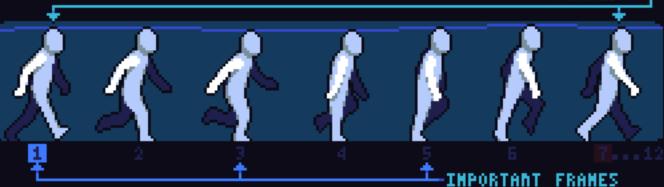
- -FLUID AMIMATION
- ■6 FRAMES FOR EACH LEC





- 6 FRAMES
- ■USEFUL IN LOW RESOLUTION
- RESOLUTION ■3 FRAMES FOR EACH LEG

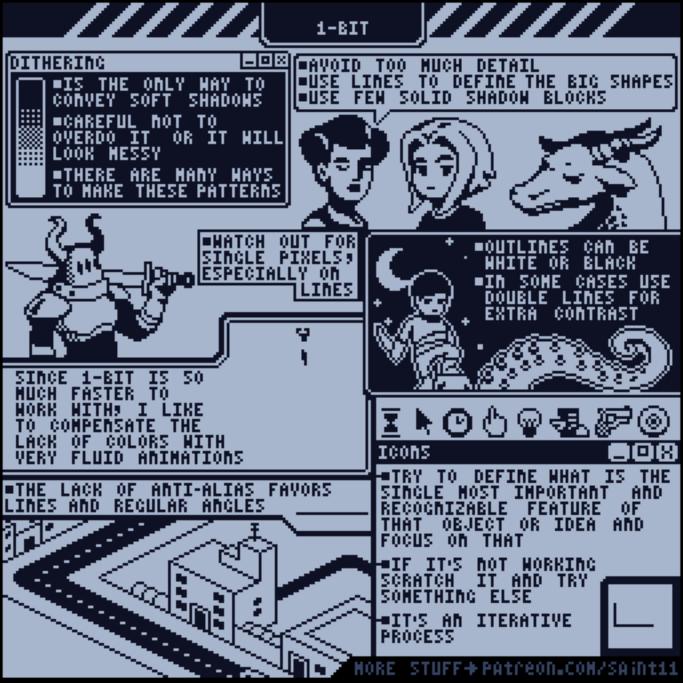
EQUIVALENT FRAMES —

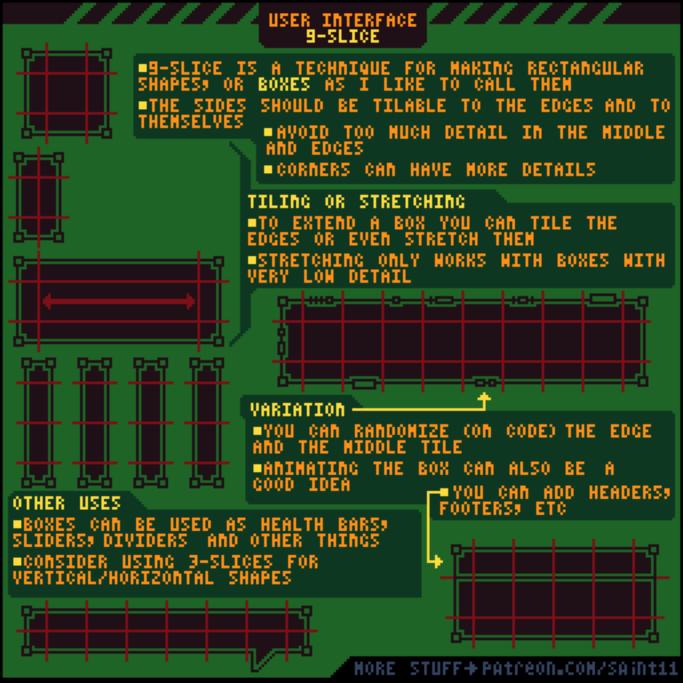


- 1 CONTACT THE FIRST FRAME WHERE THE FROMT LEG TOUCHES THE
- 2 DONN THE IMPACT CAUSES THE TORSO AND HEAD TO GO DOWN
- DONN+ PINE LOWEST FRAME IN THE AMINATION PROPERTY OF THE ARMS
- PREPARE ⇒GET READY FOR MOVING UP PASSING ⇒I ADDED A HEAD DELAY IN THIS ONE
- F PASSING ► MOVING UP ►LOTS OF POTENTIAL FOR VARIATION HERE
- 6 UP ►HICHEST POINT IN THE AMINATION
- PARMS ALWAYS MOVE WITH THE OPPOSITE LEG PLEC ON GROUND ALWAYS MOVES TOWARDS THE BACK









## DARKMESS





- □ CREATE STRONG LIGHT POINTS
- ADD A STRONG RIM/BACK LIGHT

SCARIER THAN THE REAL THING ——

- IMPORTANT DETAILS

  -EACH PIXEL CLUSTER

  MUST HAVE A REASON

  TO BE THERE
- ■WHEN DRAWING THINGS
  IN A DARK BACKGROUND
  I LIKE TO USE ONLY
  ONE COLOR TO KEEP A
  LOW CONTRAST
- LIGHT SOURCE TO
  THE EDGES OF AN
  OBJECT TO FIND
  THE SHADON

  \*\*KEEP THE LIGHT
  DIRECTION OF MAYS
  - ■KEEP THE LIGHT DIRECTION ALWAY! CONSISTENT





# CUTERESS





FOREHEAD EYE SOCKETS

MOSE

HEAD FEWER MARKS

# RESOLUTION





## FACE CUTE Proportions

OVERSIZED HAIR











HEADS)

hot















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# DEATH/TAKE HIT







## RECOVER









SQUISH



COMPRESS





EXPLOSION





■THE IMPACT IS ALL ABOUT THE



MALL SLIDE/KICK CONTACT ■SQUASH AND STRETCH TO CONVEY **■COMPENSATE** THE HORIZONTAL А SLIDE KICK AVOID FORMARD AS AS POSSIBLE MUCH SHAPES BASIC ANIMATION FLOW FALL **HALL\_CONTACT KICKLUUMP** SLIDE More STUFF \* Patreon.com/Saint11

## SLIDE-ROLL-DASH



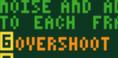


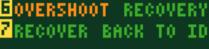
























OVERSHOOT RECOVERY











OR

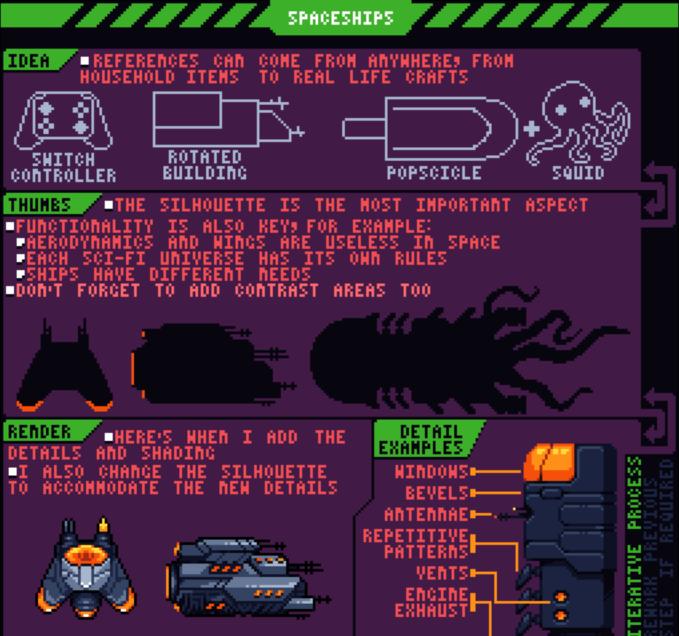
ROLLS

THE



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## SPACESHIPS





#### DEFEND

GOOD DEFENDING ANIMATION SHOULD SHOW AT THE HIT CONNECTS BUT CAUSES NO DAM DAMAGE







//////









#### ABOUT SOUND MAYS THINK ABOUT

- SILHOUETTE TOO MUCH
- OPTIONAL COMPLEMENTARY FLASHING,











# HOLOGRAMS / CHOSTS





#### CEMS





PRESHAPIMO INTO A BASIC



ON MARKING THE FACETS

CEM СШТ

FACET







- REFRACTION
- LITTLE RANDOM



WHOLE FRAMES

POSSIBLE» MAKE EACH

ROUNDED EASING

# TABLE MAIN FACETS ecrown **GIRDLE** GIRDLE FACETS -PAVILION



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VOLUMETRIC LIGHT



JOUR



IN THE

SMOKE

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#### SCALING FROM CONCEPT

OF IT MORE AS A TRANSLATION THAN RESCALING



-FOCUS ON THE BIC MASSES

DETAILS BUT TOMS OM THE COAT DETAILS AND CONTRAST TO THOSE AREAS THE OTHER AREAS CLEARER

#### CHOOSING -Ĥ. RESOLUTION



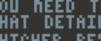


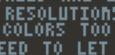


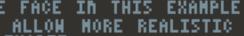


**■**SOMETIMES YOU









RESOLUTION DECREASES

CO OF SOME

ROUMDER

ADJUSTING SCALE STYLES AND ROUNDED SHAPES USE AUTOMATIC RESIZE



OUTLINE AND SILHOUETTE **UPSCALING** 

DOWNSCALING 3. REDRAW

MISSING INFO 4.CHOOSE DETAILS TO

IF MEEDED

<u>5.FIX</u> DITHER AND BROKEN



3.HUMT DOWN BIG

AMD MAKE

AREAS TO PUT

ORICINAL



SHADIMC



RECOMMEND DONNLOADING THIS GIF AND

MATCHING IT STEP BY STEP More STUFF + Patreon.Com/Saint11



**hot** only individually but

ELEMENTS SUCH AS CRACKS AND CRASS

PLANKS

MAILS

▶INCREASE

CONTRAST ON THE

THE **BIG** SHAPES, AND BEVELS

HOSS / PLANTS

Khots COLORS

+COMSIDER

COMMON ELEMENTS

COLOR

CRACKS

SLOW TRANSITIONS OVERDO THE HIGHLIGHT

BARK



# **EXAMPLE PALETTES**

### SWORDS

MANY TYPES OF SWORDS AND I CAN'T POSSIBLY I CHOSE SOME FAVORITES TO EXPLAIN IN HERE

ANATONY VIKING AGE SHORD







#### ATTACKING



## HIND-UP

PLON Cuard



- OVERSHOT



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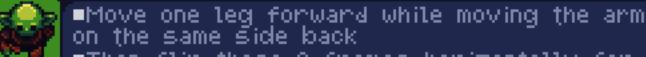
# JACK CYCLE



Start with the idle frame

Remember the perspective: feet behind legs, legs behind torso, torso behind head...

### BASIC 6-FRAME CYCLE

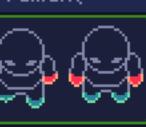


Then flip those 3 frames horizontally for the contract the other leg movement













MAKING IT Duplicate every frame and make SMOOTHER an intermediate action

■With the extra frames you can add more personality and bounciness





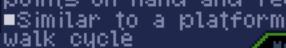
#### WALKING UP

Less aggressive vertical movement on torso and head

■Same logic of front anim



SIDEWAYS Use strong contrast points on hand and feet



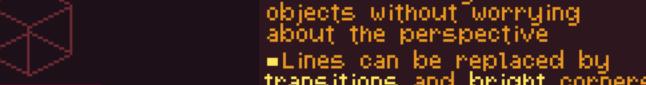


# GRID ISOMETRIC PART 1

This is a 2:1 ratio: for every 2 horizontal pixels you should move vertically by one pixel



You can freely move iso



# transitions and bright corners Use cuboids to create



#### CONVERTING FROM FLAT



Sometimes it's easier to draw something flat and then convert to iso

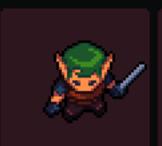
and (new convert to is

This is a useful

tool, but don't rely

only on this

#### TOP DOWN ATTACK





- Think of stacked layers lunging forward
  - Don't forget to move the opposing arm/legKeep one foot grounded
  - Try rotating the head (just a little)



#### ANTICIPATION

- Move weapon in the opposite direction of the attack
   Usuallu avoided when
- Usually avoided when drawing player characters



#### ASH.

- The first frame should do the full motion
- Slowly stabilize while reducing the motion blur



#### RECOVERY

- Recover in a different motion are than the attack
- I like to overshoot the recovery in the last frame

#### TOP DOWN TRICKS

#### SORTING



method on\_late\_update()
 order\_in\_layer = pos.Y + offset

- The offset should be generally on the bottom of the collision box
   Electing objects have the
- Floating objects have the offset on the position they would touch the ground

#### COMPLEX SHAPES

- You will need to break up vertical shapes into multiple objects/tiles
- Each object will have its own y-sorting method
- Place each offset where that part would hit the ground

## COLLISION

- Similar to the offsets, it's like a ground projection of what it would be in 3-D
- •When not sure, a large collider

## LAYERS

Used to separate **major** groups







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## **JUMP**

### JUMP UP/FORWARD

II like having 2 animations Forjumping UP is when

Don't forget dust and particles!



starting X\_SPEED>0





### 3. INVERT

When changing the Y speed, use this as a bridge between up and fall



This is a fast animation, use hands with high contrast to track the movement



# 2. GOING UP!



Simple animation, doesn't loop

## 4. FALL



- ■Arms go up, head looks down
- Hair, cloth and other objects flap in the wind

# 1.ANTICIPATION?

Avoid on player controlled characters



# 5. CONTACT



 Squash as much as you can on contact This can be a long.

animation that's interrupted if necessary

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