#### **GROUNDING the IMPOSSIBLE**

Pushing Creativity in VFX

#### Jeremy Griffith, Senior VFX Artist at Riot Games







#### Not so much TECHNICAL as...





#### Not so much TECHNICAL as...



#### **CONCEPTUAL**







### **THINKING**

#### THINKING is part of the pipeline



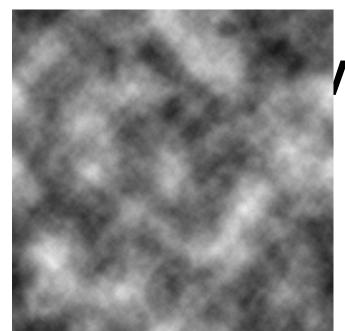
#### THINKING is part of the pipeline

...and will help you be more CREATIVE

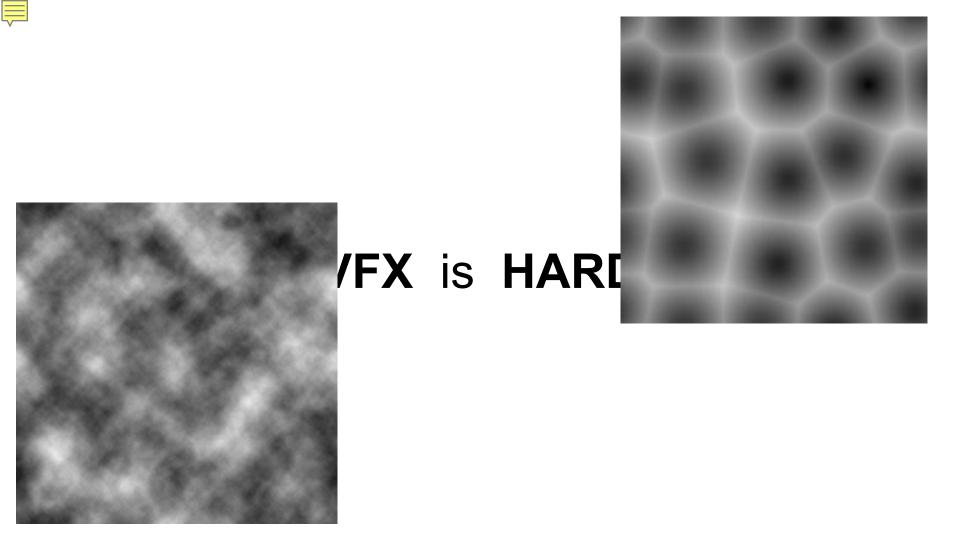


#### VFX is HARD

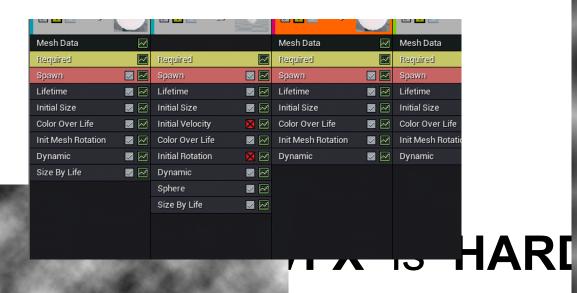




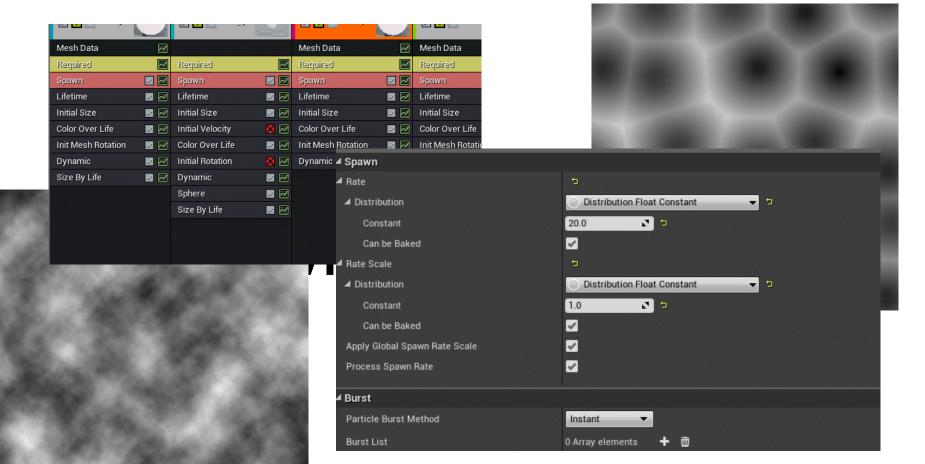
#### **/FX** is **HARD**



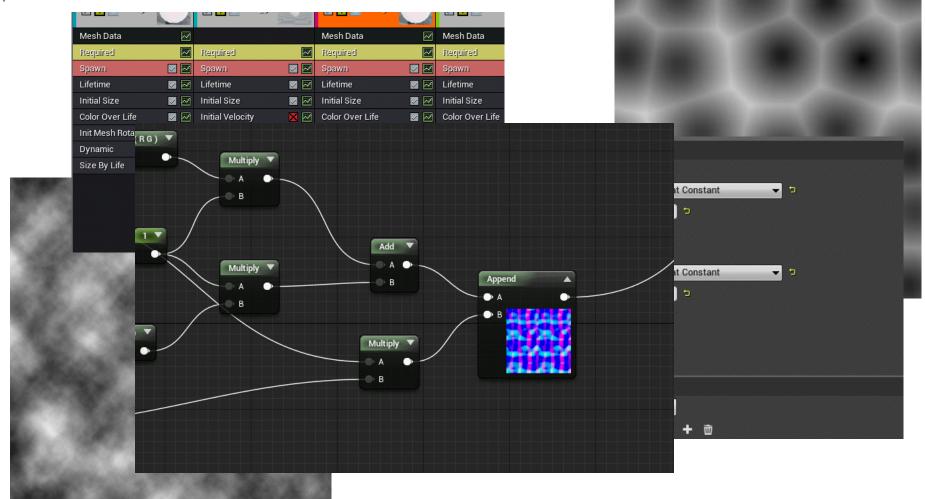




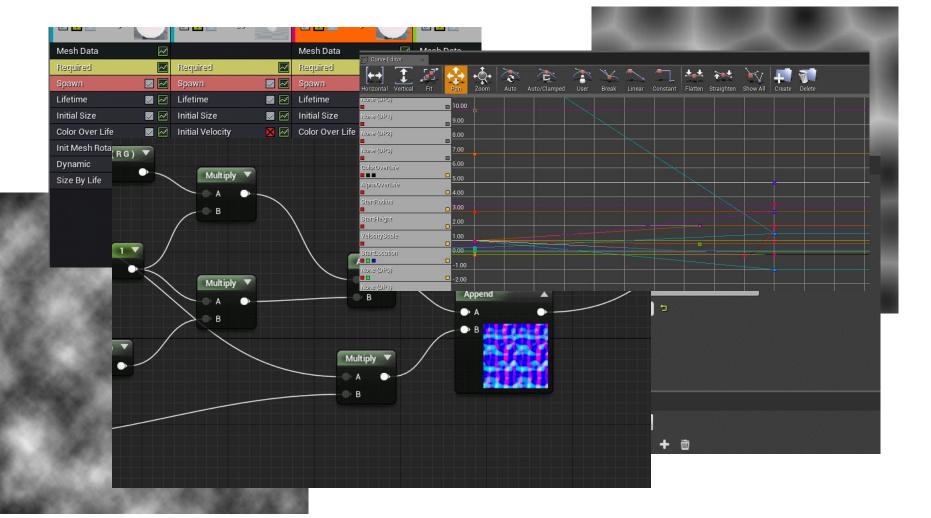


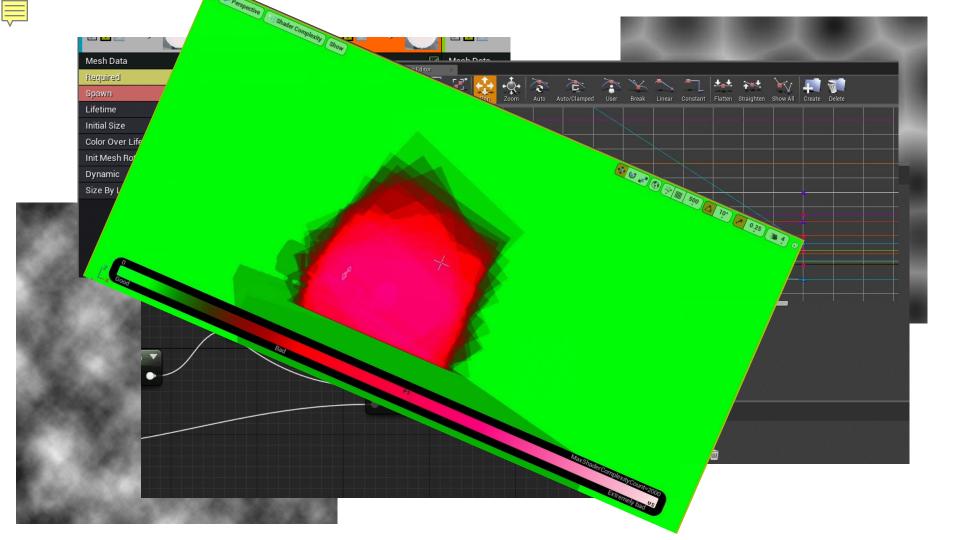












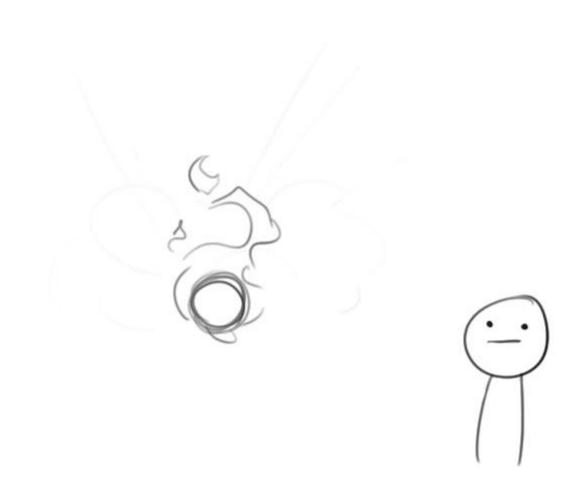






How to keep track of a million pieces?

















#### VFX is STORYTELLING

Help keep a vision of the whole.

#### THIS TALK

- A **tool box** for thinking more creatively about vfx
  - 4 tools
    - "Motivate Your Magic"
    - "Story Structure for VFX"
    - "Exaggerating the Juice"
    - "Study Everything"

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- A framework to see yourself as an active participant in creative problem solving on your project

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- A tool box for thinking more creatively about vfx
  - o 4 tools
    - "Motivate Your Magic"
    - "Story Structure for VFX"
    - "Exaggerating the Juice"
    - "Study Everything"
- A framework to see yourself as an active participant in creative problem solving on your project
- Lots of GIFs

#### CW: body horror

#### Tool 1

# MOTIVATE YOUR MAGIC

## KNOW how your VFX work in relation

the game world.

in relation

#### BE **SPECIFIC**

That's not just a challenge!



That's not just a challenge!

It's an **OPPORTUNITY**.



#### **ABSTRACT RULES**

\_\_\_\_\_

#### **CONCRETE WORLD**



# "LUDO-NARRATIVE DISSONANCE"



#### **ABSTRACT RULES**

\_\_\_\_\_

#### **CONCRETE WORLD**



#### **ABSTRACT RULES**

# ---VFX-----

**CONCRETE WORLD** 

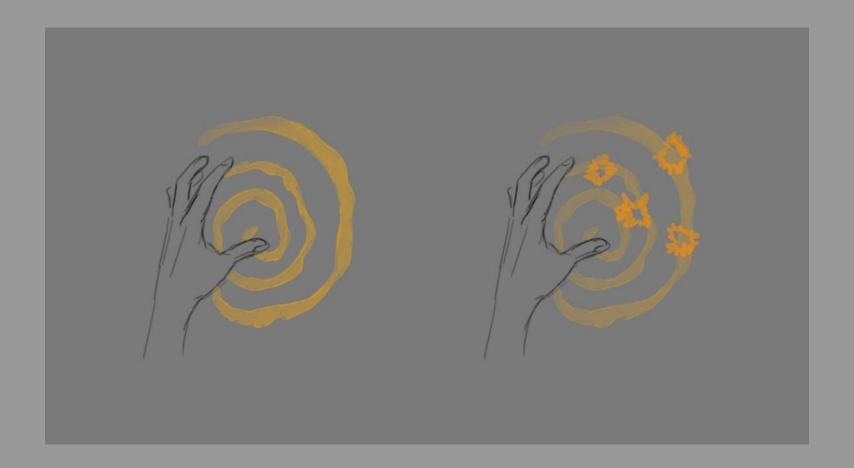
## Case study: "Return to Sender"

Problem introduction:

#### Problem introduction:

# Make **ABSTRACT** damage reduction into a **CONCRETE** thematic.





Two common problems:

"color shapes" and "lazy symbolism"



#### **ABSTRACT RULES**

# ---VFX-----

**CONCRETE WORLD** 

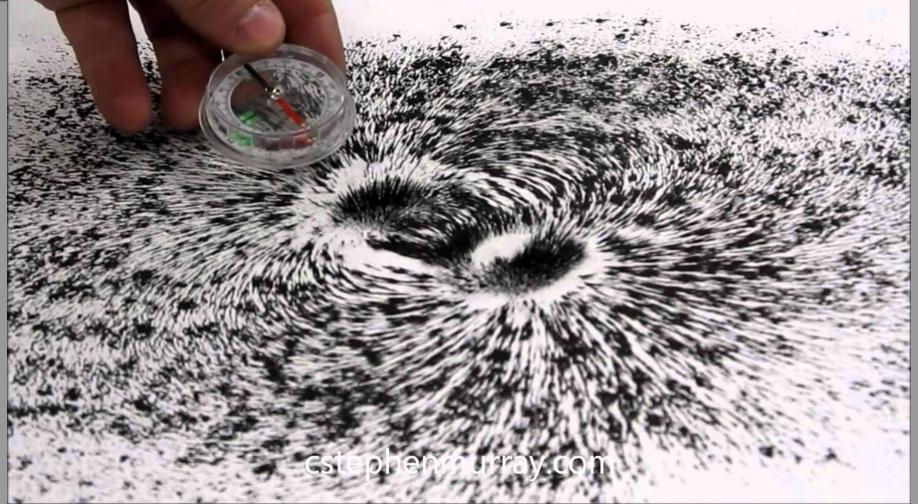


#### VFX Art Direction in *Bioshock: Infinite*:

### Power without "magic"

Defensive shield without magic.













### Case Study: "Possession"

Problem Introduction:

### Problem Introduction:

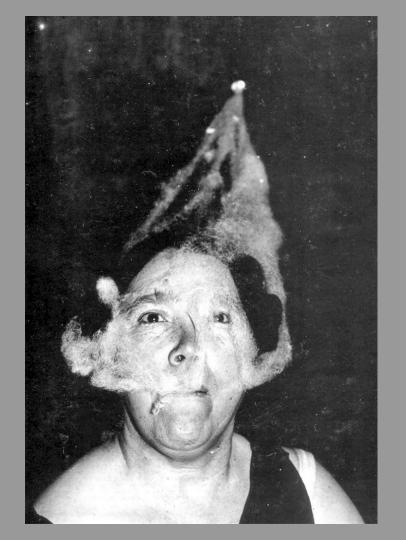
How to physically ground a ghost?

#### **ECTOPLASM**

### PERIOD REFERENCE





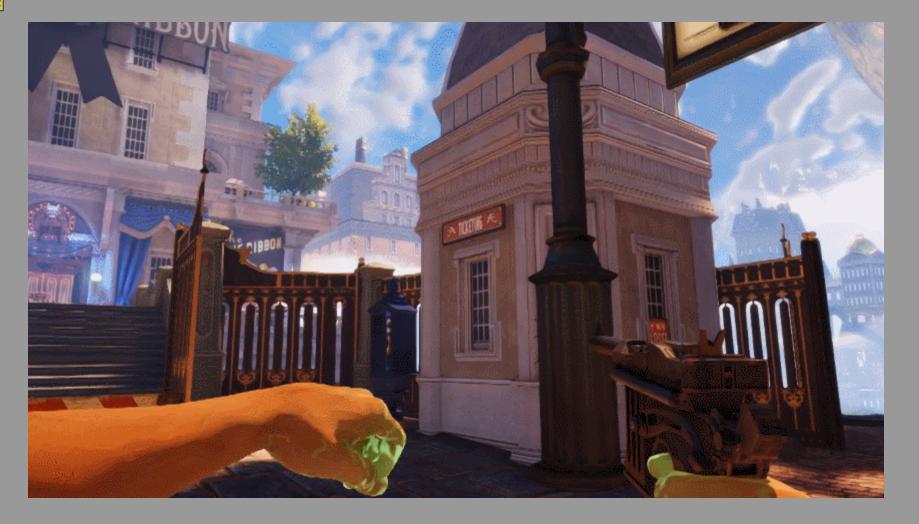




# MORE RECENT REFERENCE













### **BUT**:

Even a single lick of flame

deserves **specificity**.

































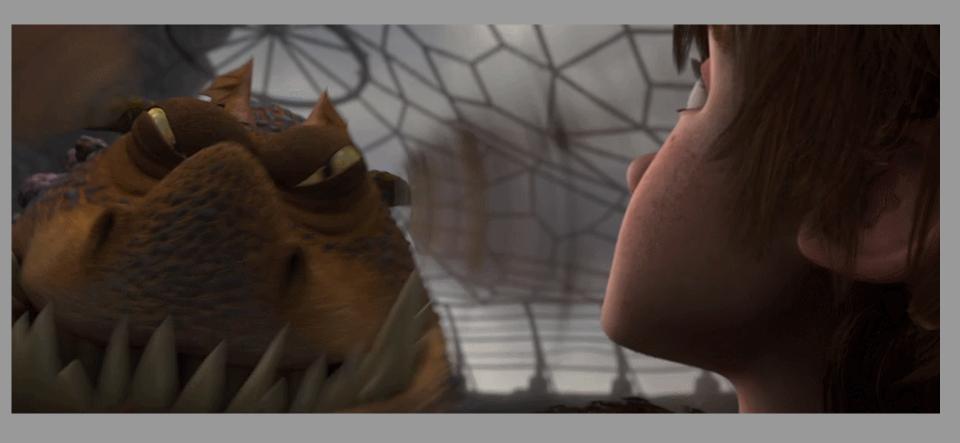


## Other media: How to Train Your Dragon













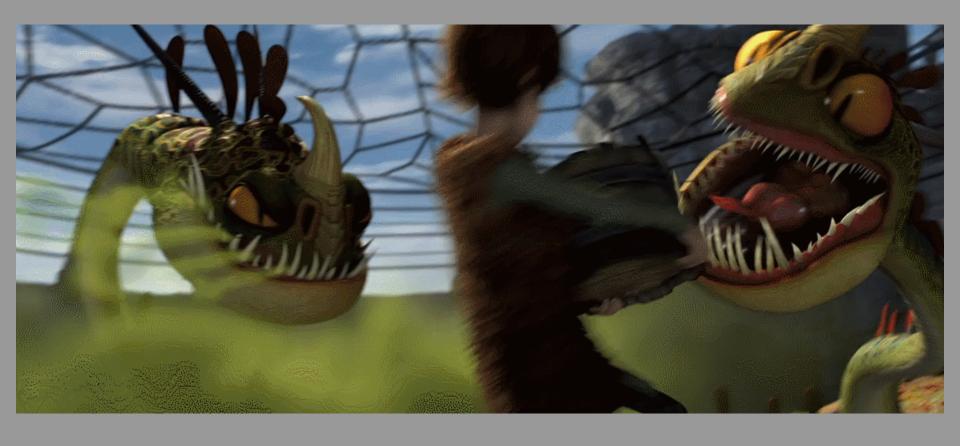












## Being SPECIFIC creates room for

## **SUBTLE** yet CLEAR DISTINCTIONS



# SUBTLE DISTINCTIONS are useful for COMMUNICATING STUFF.



# SUBTLE DISTINCTIONS are useful for COMMUNICATING STORY.



## **SUBTLE DISTINCTIONS** are useful for

#### COMMUNICATING CHARACTER.



## SUBTLE DISTINCTIONS are useful for

### COMMUNICATING GAMEPLAY.

## VAGUE is BORING

## VAGUE is not just BORING



# VAGUE is not just BORING VAGUE is also CONFUSING

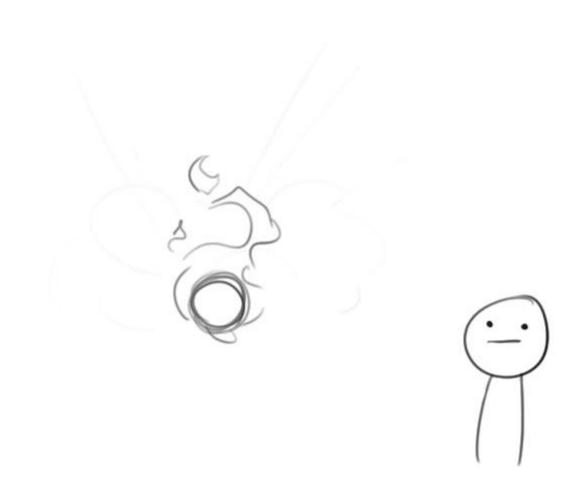
## So BE SPECIFIC.

# MOTIVATE YOUR MAGIC

## Tool 2

# Story Structure

FOR **VFX** 



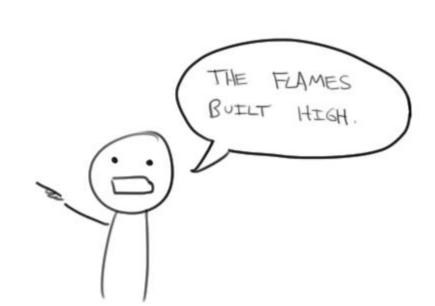


Beginning, Middle, End

















## \_\_

Enter Stage, Perform, Exit Stage



## Anticipation, Action, Aftermath





Thinking in terms of story structure

also helps us be specific.

## The **STORY** of what is **HAPPENING**

## Case Study: **Devil's Kiss** intro

## Case Study: Devil's Kiss intro

#### STORY **BEATS**

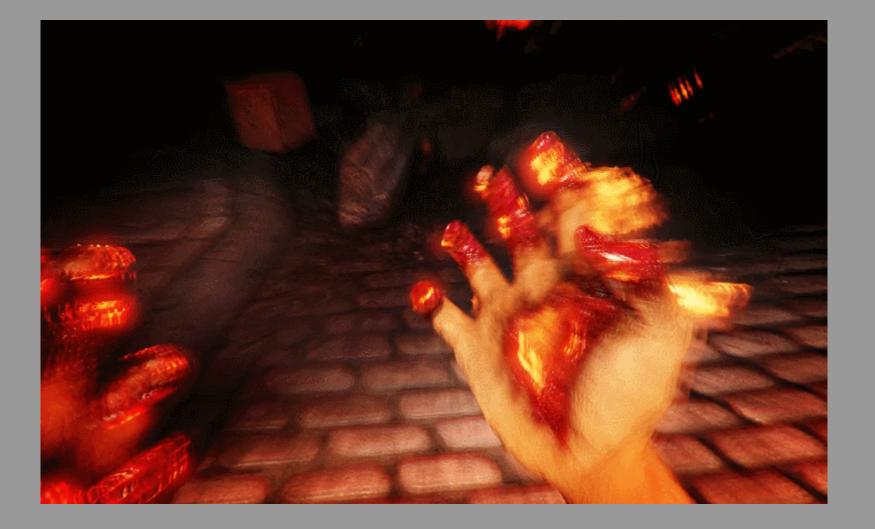
















#### BUT:

#### Even in a single puff of dust

or splash of water

there is a multipart story.



#### ELEMENTAL MAGIC

The Art of Special Effects Animation



Joseph Gilland

Foreword by Michel Gagne



### In other words, KEY POSES

#### In other words, KEY POSES

Anchors to organize your thinking.



### SKETCHING = THINKING











### SKETCHING = THINKING

# Story Structure

FOR **VFX** 

### Tool 3

### EXAGGERATING THE



# Classic animation principle of **EXAGGERATION**:

# Classic animation principle of **EXAGGERATION**:

#### **SELECTIVE** EMPHASIS

#### Case Study: Handcannon





























#### BUT:

# Even a single puff of dust is ripe for exaggeration

# Even a single puff of dust is ripe for exaggeration

WE choose what shapes to emphasize.

# Exaggeration can also be related to SHAPE LANGUAGE



### contributes to TONE.

What you choose to exaggerate

## horror]

[ie: why Bioshock vfx emphasize body

There's always room for exaggeration,

Even in realism.

### EXAGGERATING THE



#### Tool 4

## STUDY EVERYTHING

#### VFX is **INTERDISCIPLINARY**

### KEEP STUDYING ART, 3D + 2D

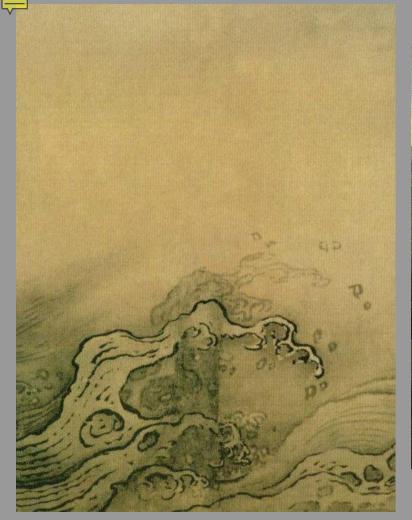
Communication inside the team.

#### STUDY ART HISTORY

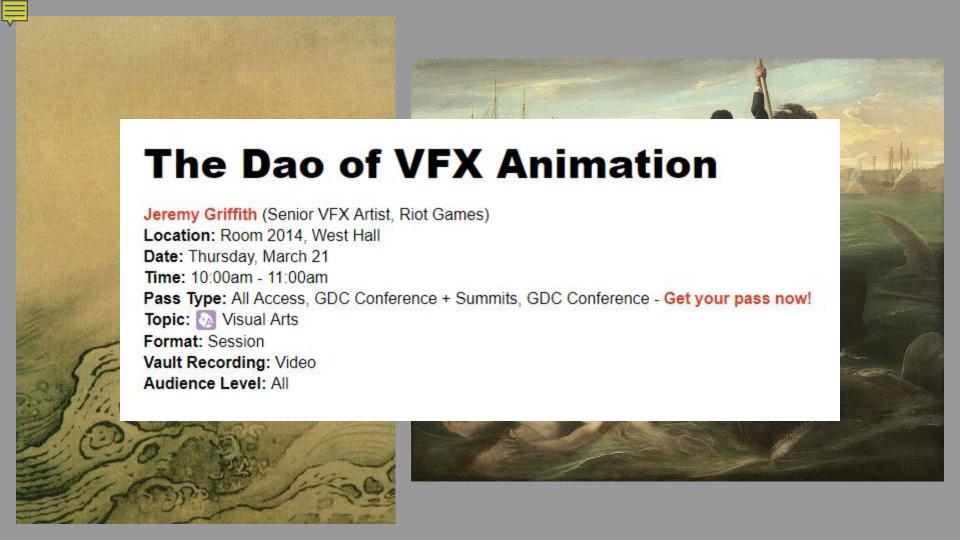
## An entire human history of VISUAL LANGUAGE

## An entire human history of VISUAL LANGUAGE

An entire world catalogue of types of **EXAGGERATION** + **STYLIZATION** 



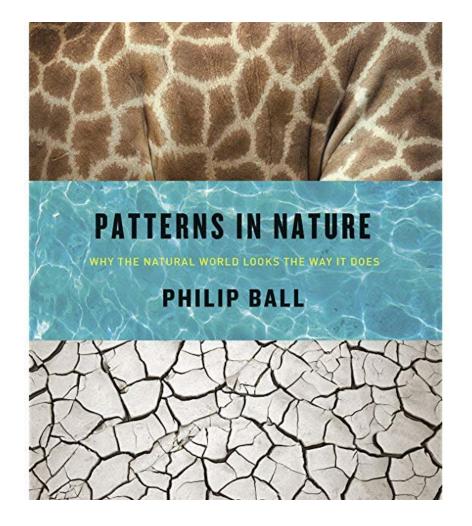




#### STUDY NATURE









#### The Dao of VFX Animation

Jeremy Griffith (Senior VFX Artist, Riot Games)

Location: Room 2014, West Hall

Date: Thursday, March 21 Time: 10:00am - 11:00am

Pass Type: All Access, GDC Conference + Summits, GDC Conference - Get your pass now!

Topic: Nisual Arts

Format: Session

Vault Recording: Video Audience Level: All



### Build your VOCABULARY of FORM



#### "Sapir-Worf Hypothesis"

Our linguistic categories influence our perceptions and thoughts.





























#### If you KNOW more stuff,

#### If you KNOW more stuff,

Then you will **SEE** more stuff,

#### If you KNOW more stuff,

Then you will SEE more stuff,

And you will be able to **CREATE** more *and better* stuff.

#### Because also...



# THE CREATIVE TANK NEEDS FUEL.



## DON'T **STARVE YOURSELF** IN FRONT OF COMPUTER SCREENS FOR YOUR ENTIRE LIFE.



## DON'T STARVE YOURSELE IN FRONT OF COMPENTINE LIFE. FOR YOUR



# DON'T STARVE OF COMPLETE OF COMPLETE OF SELECTION FRONT OF COMPLETE OF SELECTION FRONT OF COMPLETE OF

## STUDY EVERYTHING

Putting it all together

## Case Study: TYPES of DRAGON FIRE

## Case Study: TYPES of DRAGON FIRE

DAMAGE SLOW DoT

## Case Study: TYPES of DRAGON FIRE

RED

Flames

**BLUE** 

**Flames** 

**GREEN** 

**Flames** 

### **VAGUE**

## Case Study: TYPES of DRAGON FIRE

RED

**Flames** 

+

symbol

BLUE

**Flames** 

+

symbol

**GREEN** 

**Flames** 

+

symbol

### LAZY

FIRE ICE ACID

## BORING

### DRAGON BREATH

### DRAGON BREATH

### DRAGON BODILY FUNCTIONS



### SKETCHING = THINKING

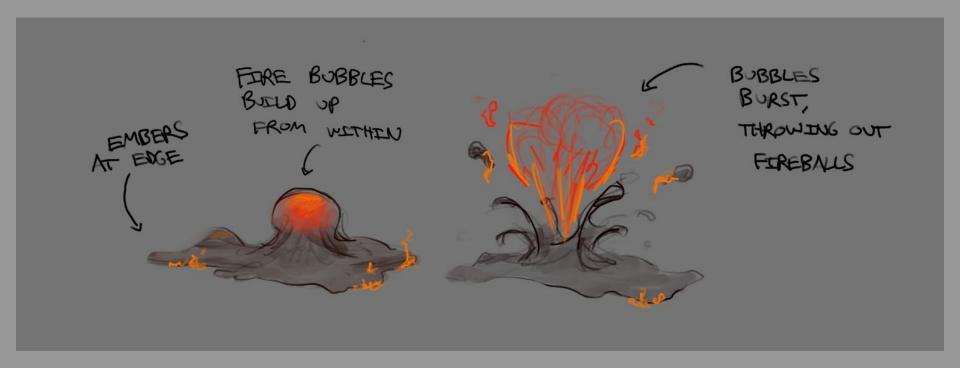
### SLOW = SNEEZE





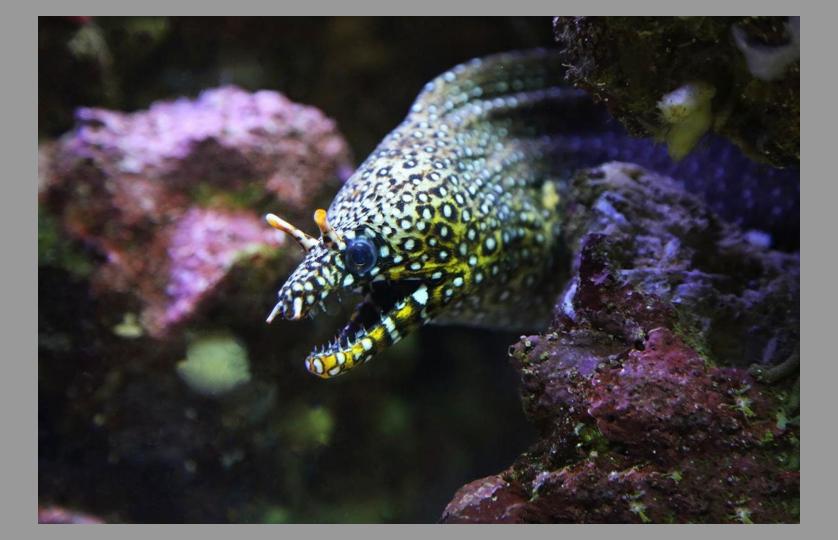
DRAGON TAR-MUCUS





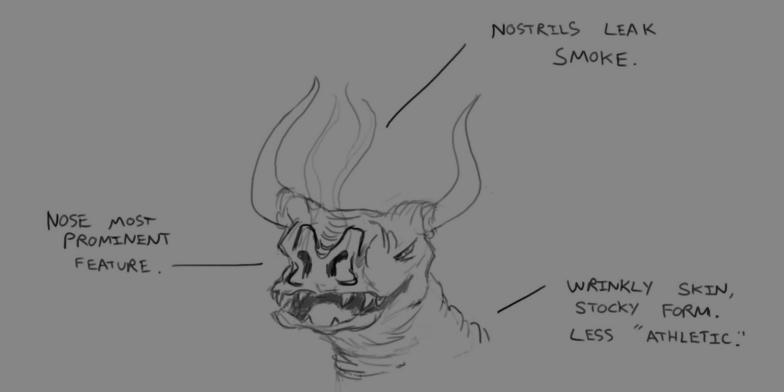
## OPPORTUNITY:

Tie into dragon physiology

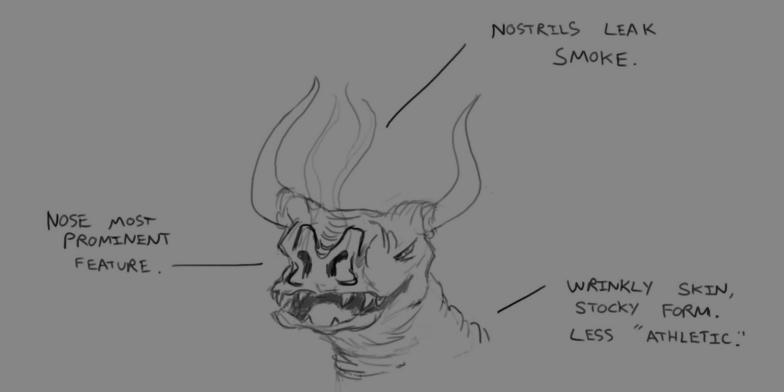




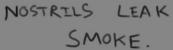


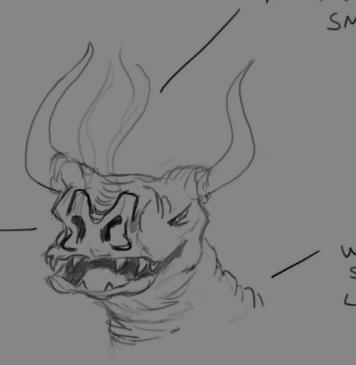








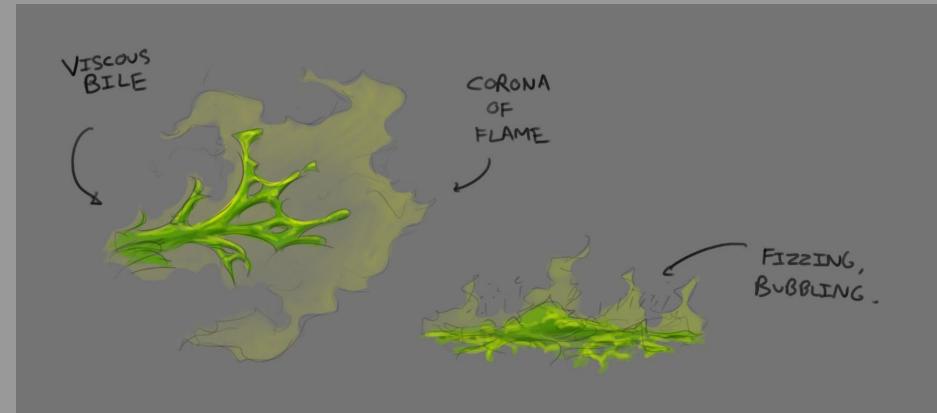






### DoT = BILE

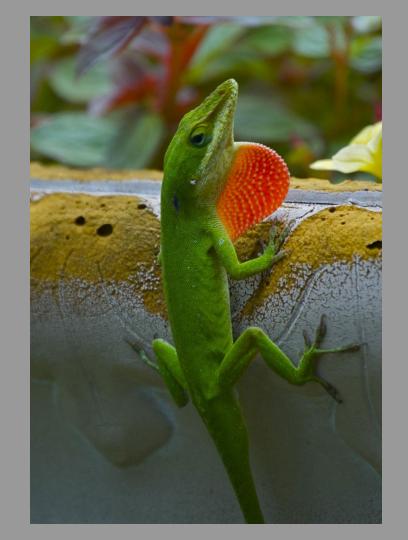


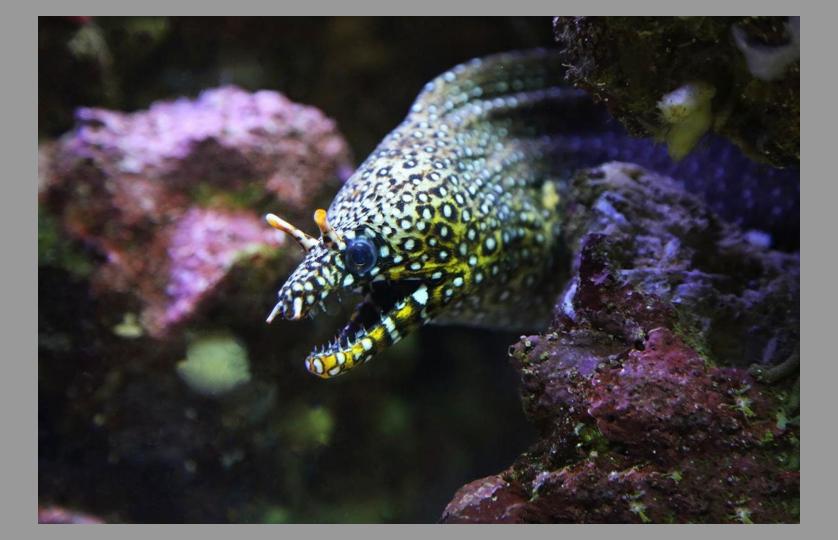


## OPPORTUNITY:

Tie into dragon physiology









FRONTAL SPOUTS. RIDGE OF BILE SACKS.

PRESSURE RELEASE VALVES.



PRESSURE RELEASE VALVES.





"Ok wait but that's just acid."

### NO -- It's **stomach** acid + bile

### NO -- It's **stomach** acid + bile

...which is more SPECIFIC

DAMAGE SLOW DoT

DAMAGE

SLOW

DoT

**BREATH** 

TAR-SNOT

**BILE-FONT** 

DAMAGE

SLOW

DoT

**BREATH** 

TAR-SNOT

**BILE-FONT** 

UNITED by central theme of <u>HEAT</u>

FIRE ICE ACID

DAMAGE

SLOW

DoT

**BREATH** 

TAR-SNOT

**BILE-FONT** 

UNITED by central theme of <u>HEAT</u>

# "But it's just magic!"

### **DON'T EVER SAY THAT**

#### **DON'T EVER SAY THAT**

### ARE YOU EVEN PAYING ATTENTION

# IT'S NEVER "JUST MAGIC."

# IT'S NEVER "JUST MAGIC."

It is our job to make it more than that.

### CONCLUSION

#### **ABSTRACT RULES**

## VFX----

**CONCRETE WORLD** 

## FILL THAT GAP.

# Be an active part of the creative problem solving on your project.

## Every effect you make has the potential to add clarity to the game rules.

## Every effect you make has the potential to add richness to the game world.

#### THE GOAL IS ALWAYS BOTH.

# MOTIVATE YOUR MAGIC

## KNOW how your VFX work in relation

the game world.

in relation

#### BE **SPECIFIC**

## Story Structure

FOR **VFX** 





### EXAGGERATING THE







# STUDY EVERYTHING



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#### **ABSTRACT RULES**

## VFX----

**CONCRETE WORLD** 

#### **ABSTRACT RULES**

Be the expert that can fill the gap.

CONCRETE WORLD

## Jeremy Griffith Senior VFX Artist, Riot Games

jrmgriffith@gmail.com @Jarm\_\_