

## WHO AM I...























## WHO AM I...



#### **OVERVIEW**

- 1. CONCEPTION
- 2. FINDING SAM FISHER
- 3. ANIMATION PIPELINE & TOOLS
- 4. EVERYTHING IN MOTION
- 5. ANIMATION CONTRAST
- 6. Al BEHAVIOURS



# KOM



# KOM



#### SC:B ANIMATION MANDATE

Make animation more fluid

• RETURN TO STEALTH ROOTS

PLAYER CHOICE

IMPROVED AI BEHAVIOURS



PANTHER

REALISM

# PANTHER

PROWL

SURGICAL
STRIKE

RESPONSE

# **REALISM**

# **PANTHER**

PROWL

SURGICAL
STRIKE

RESPONSE

# **REALISM**

AWARE

**TACTILE** 

**REACTIVE** 

# FIRST CONCEPT





#### THE REAL SAM FISHER



#### KEVIN SECOURS, B.ED.

- 30 YEARS EXPERIENCE IN MARTIAL ARTS
- RUSSIAN SYSTEMA
- 6<sup>TH</sup> DAN GOSHINBUDO
- 3<sup>RD</sup> DAN MODERN KEMP JUJITSU
- 1<sup>ST</sup> DAN AKI RYU JIU-JITSU
- Instuctor in Shaolin Chuanshu
- TAI CHI AND YOGA

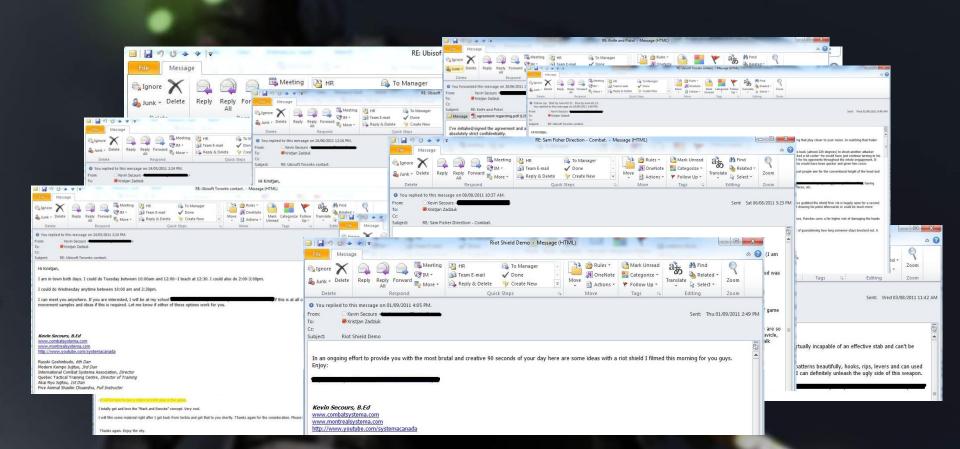
WWW.COMBATSYSTEMAONLINE.COM

## **KEVINS PITCH**



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#### COMMUNICATION



# COMMUNICATION



## **BRINGING BACK THE KNIFE**



## **KARAMBIT**







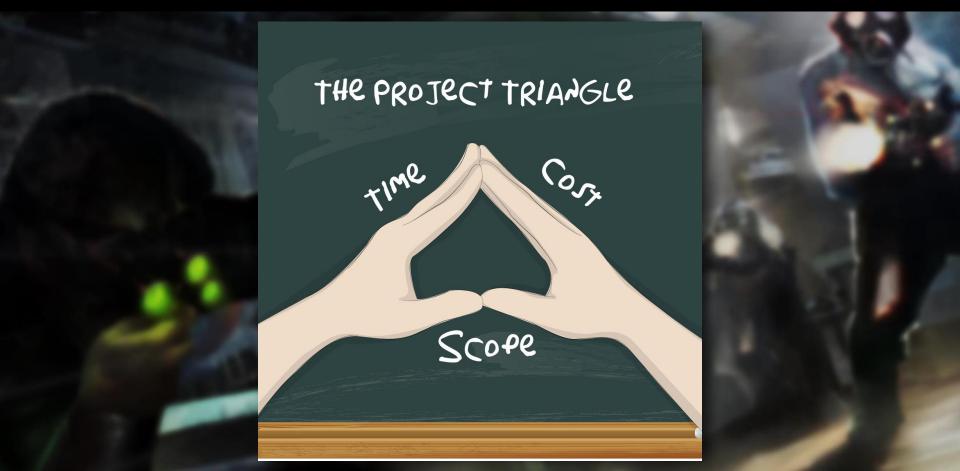
## WHAT WE NEEDED



"MORE OF EVERYTHING..."

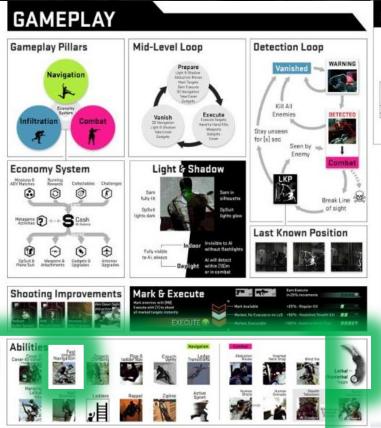
MAXIME BELAND

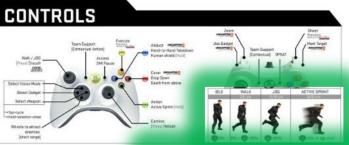
# THE PROBLEM





### SCOPE







## **ANIMATION BUDGET**





## WHAT WE NEEDED...

- MOCAP
  - VOLUME OF ANIMATION
  - GROUNDED MOVEMENT
  - CREATIVE DATA MANIPULATION
- IMPROVE ANIMATION TOOLS
  - INCREASED ANIMATOR CONTROL
  - Memory savings



#### **TYPICAL SHOOT DAY**



- NUMBER OF PEOPLE ON SET
- CLEAR DIRECTION
- COLLABORATE

#### **TYPICAL SHOOT DAY**



- NUMBER OF PEOPLE ON SET
- · CLEAR DIRECTION
- COLLABORATE
- RESPECT THE TALENT
- Not working... Move on
- BE AMBITIOUS

#### **OUR PLAYGROUND**



#### "MO-FRAME"



**RAW MOCAP** 



EDITED "MOFRAME"

USING THE MOCAP AS A FOUNDATION TO BUILD ON ANIMATORS ENHANCE THE MOVE TIMING AND READABILITY

# ABDUCTION BREAKDOWN

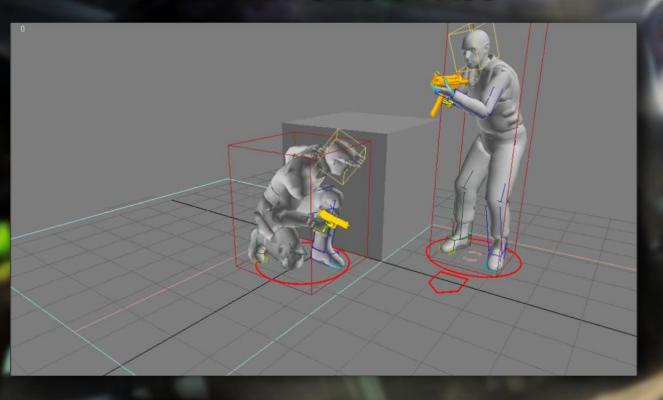


# ABDUCTION BREAKDOWN



# **ABDUCTION BREAKDOWN**

#### MAIN POLISH PASS



### ABDUCTION BREAKDOWN

#### **FINAL POLISH**









# VARIETY NODE



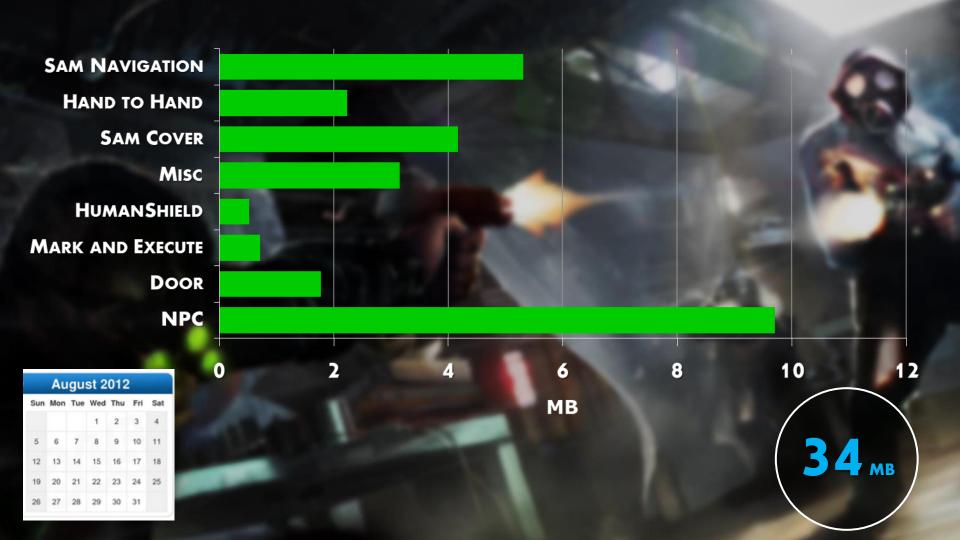
### REPLACEMENTS



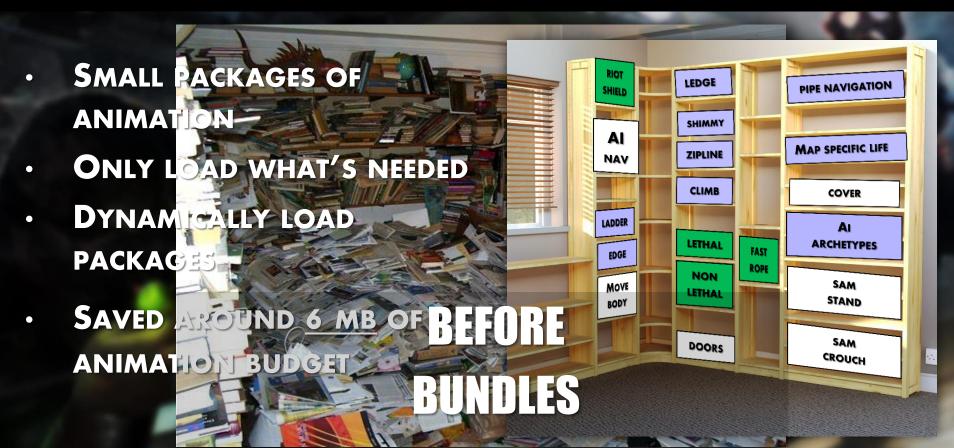


"WENTED TO STEDUCE
THE ANIMATION FOOT PRINT"

MICHAEL WASILEWSKI



#### **ANIMATION BUNDLES**

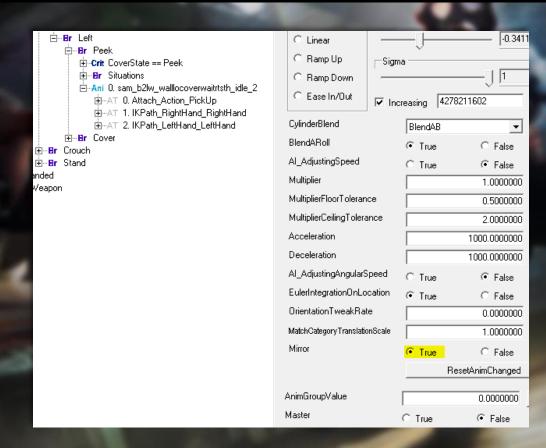


#### MIRRORING

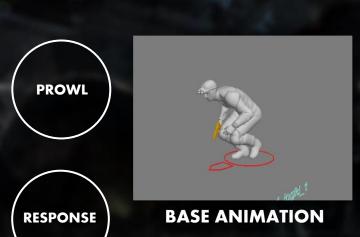
 REDUCED ANIMATION DUPLICATION

EASY TO USE

 SAVED AROUND 4 MB OF ANIMATION DATA



### **LAYERS**





**WEAPON LAYER** 



**FINAL ANIMATION** 



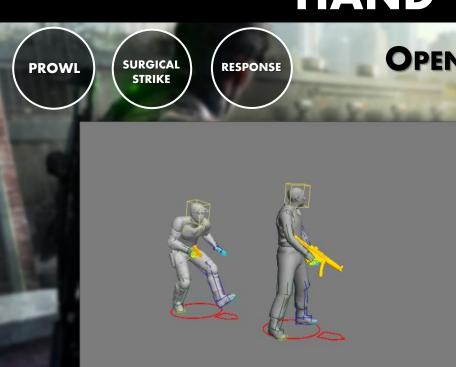


# **OBJECTIVE**

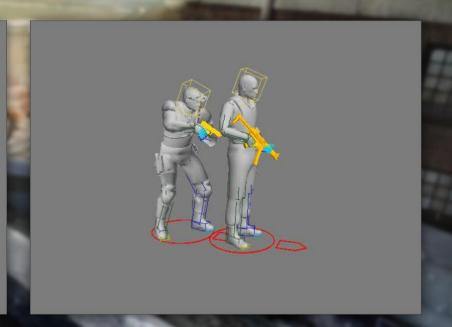








**OPEN COMBAT:** 



MOVING

STATIC



## COMBAT Vs STEALTH

1. HAND TO HAND

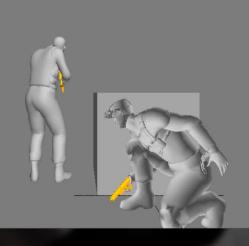
2. NAVIGATION

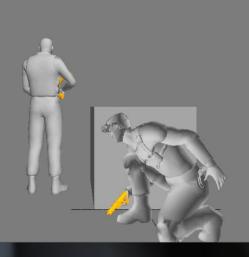
3. AI AWARENESS



**ABDUCTIONS** 







**COMBAT** 

STEALTH

#### **ABDUCTIONS**

**COVER TYPE** 

COVER DIRECTION

AI ORIENTATION

LETHAL / NON
LETHAL

COMBAT /
STEALTH



X2



**X**2



X<sub>2</sub>



**X2** 

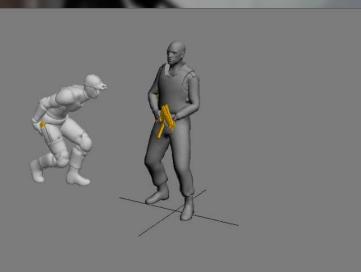


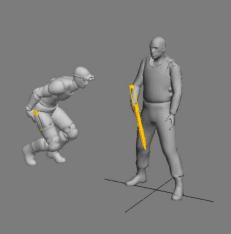
X<sub>2</sub>



**UNIQUE ANIMATIONS** 

#### **OPEN COMBAT:**





**LETHAL** 

NON LETHAL

#### **OPEN COMBAT:**



DIRECTION OF ATTACK

LETHAL / NON LETHAL

COMBAT /
STEALTH



**X**2



**X**4



**X**2



X<sub>2</sub>



**UNIQUE ANIMATIONS** 





CONTEXTUAL TAKEDOWN

MARK & EXECUTE



8



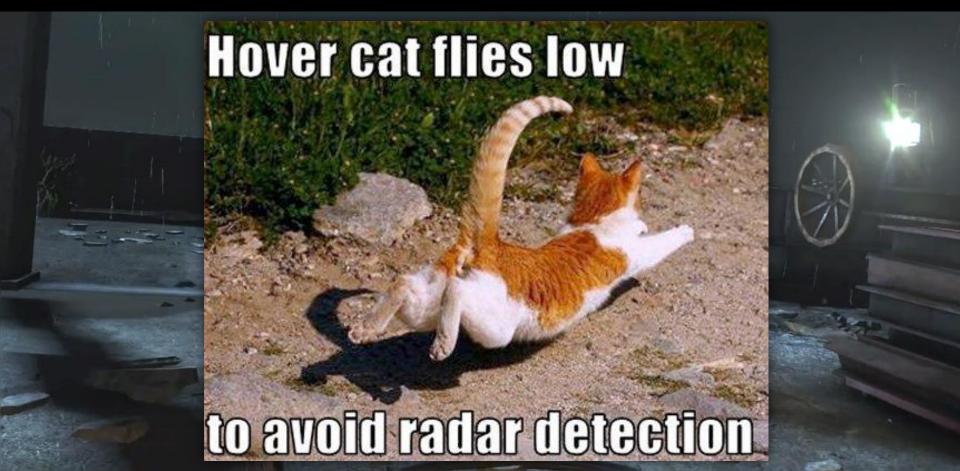
16



10

98

**UNIQUE ANIMATIONS** 



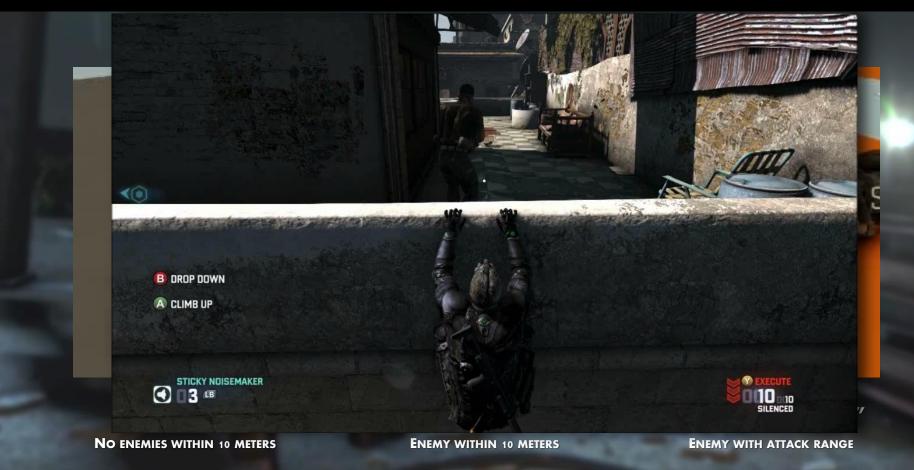


#### FIRST STATIC TEST











### 



# **IMPACT**



### **MOVING IMPACT**



**MOVEMENT SPEED** + **DIRECTION** = **MOMENTUM** 

## **REACTIONS**



### **REACTIONS**

#### SIMPLE MANIPULATION



REACTIVE

SURGICAL STRIKE















# IN CLOSING



