



A city of thousand choices: Prague city hub in Deus Ex Mankind Divided

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WHO AM I?





Prague, Czech Republic - [unclear]



I Spent Far Too Long Breaking Into Houses in Deus Ex: Mankind Divided

By Julian

Deus Ex: Mankind Divided
hubs prove it's anyt

By
Robert Zak

A Closer Look At The *Mankind Divided*



Heather Alexandra

9/16/16 4:30pm - Filed to: DEUS EX: MANKIND DIVIDED

In Praise of Prague (and other small worlds) | Game Maker's Toolkit



AGUE OF DIVIDED

ER AND CHOICE IN

H THEFT IN DED





TODAY'S TALK

- How we designed player choice in Prague
 - Through navigation & content
- All while being on a budget
- With WIP engine & tools





WHAT ARE PLAYER CHOICES?

- Players want to have it their way
- Deus Ex lets them play their way
 - By allowing different play styles
- How?
 - Multiple co-dependent game pillars





GAME PILLARS

- Primary
 - Stealth
 - Combat
- Secondary
 - Hacking
 - Social
 - Exploration



Social



Hacking



Stealth



Combat





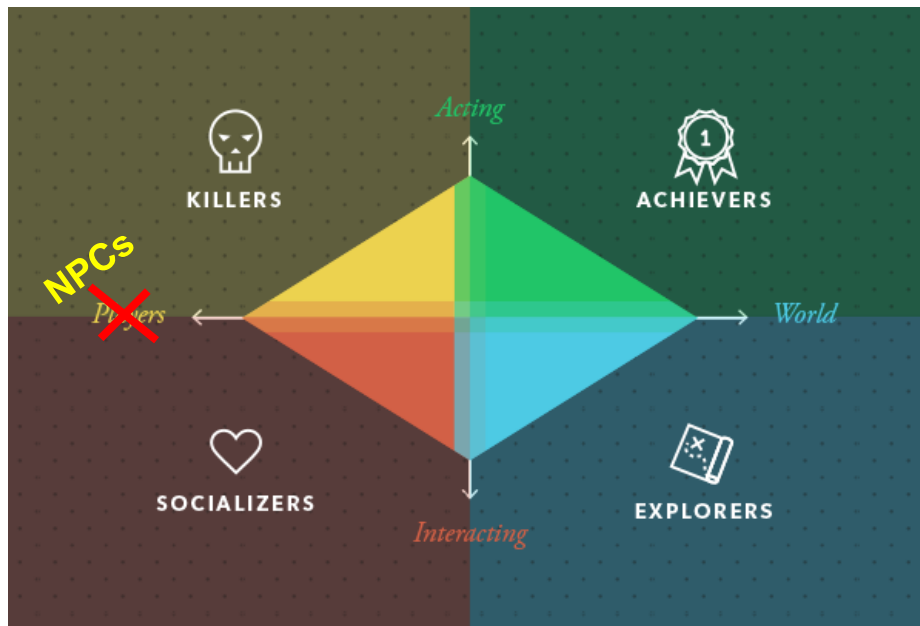
PLAYER ABILITIES

- Multiple tech trees
- Earn token on progress
- Unlock as you see fit





BARTLE'S TAXONOMY OF PLAYER TYPES



* Chart courtesy of
Envato / Tutsplus.com
& Julien "Kyatric" Fantoni
<http://bit.ly/2mg79wE>





PLAYER TYPES TO GAME PILLARS

- Killer ► Combat & Stealth
- Socializer ► Conversations & Debates
- Explorer ► Side quests & Exploration
- Achiever ► Stress the systems





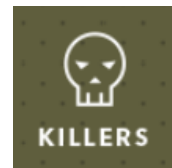
HOW WE DESIGNED AROUND TYPES?

- Identify key motives
- Extract design rules





KILLER MOTIVES

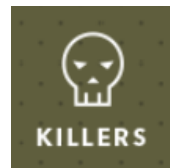


- *"I want to kill my way to the top"*
 - We provide a fast lane of progression
 - We support key NPCs death

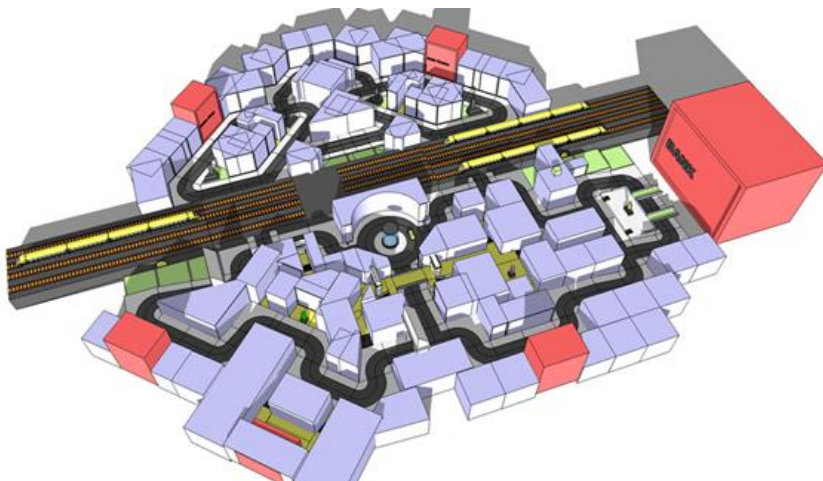




CONSEQUENT DESIGN RULE



- The Killer drives the core navigation



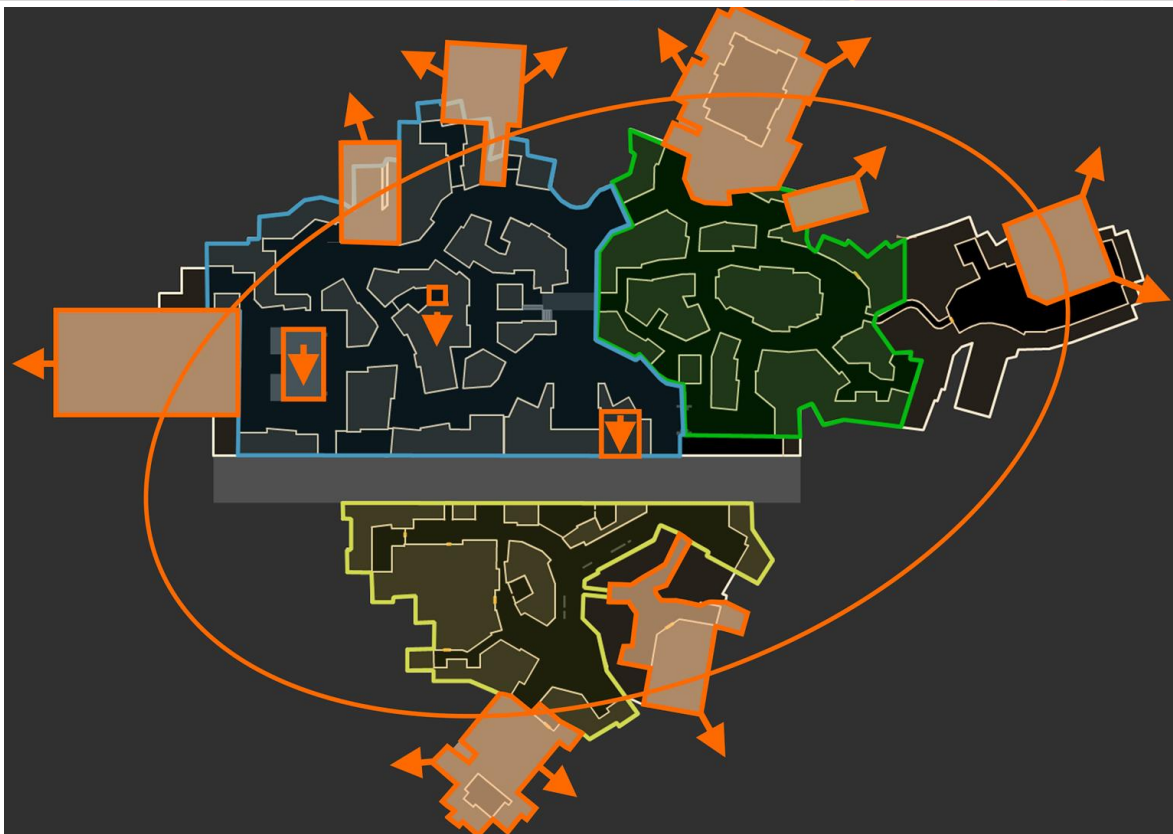
FAST LANE OF PROGRESSION

- All sub-locations at equal distance from each other
- Fast travel (Metro stations)



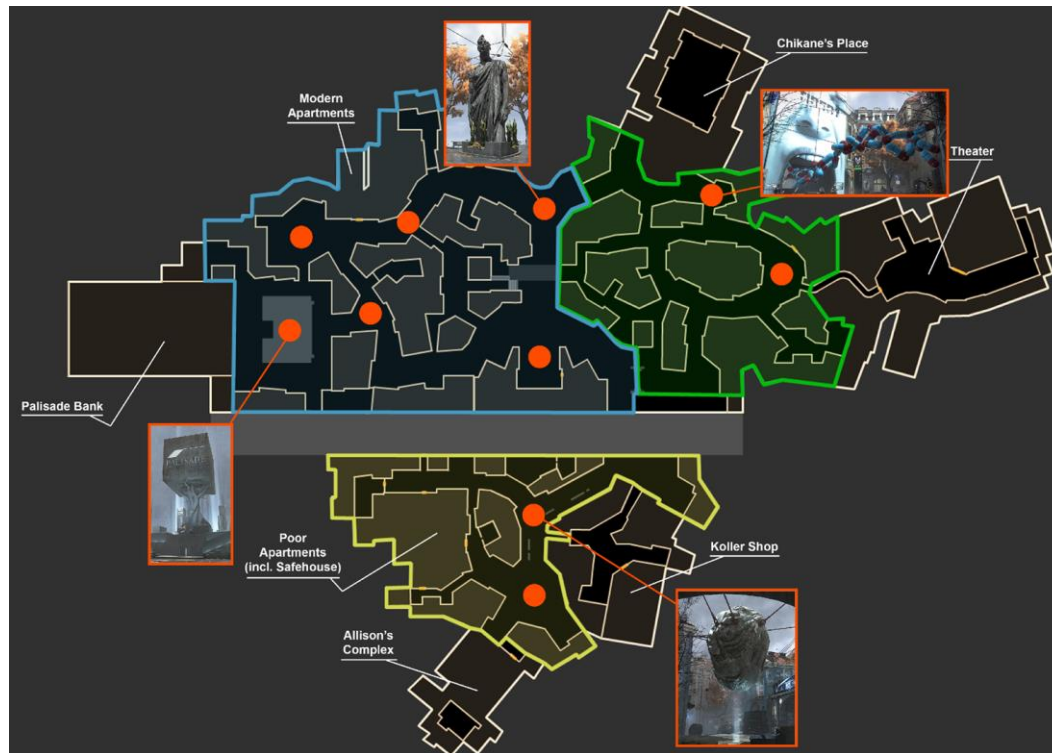
DESIGN OUTWARDS

- Easy to expand or shrink
- Works vertically
 - Sewers
 - Bank
 - TF29...



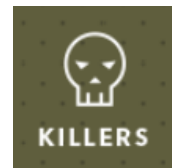
CLEAR PATH

- Landmarks!
- Designed to wonder
- Located strategically

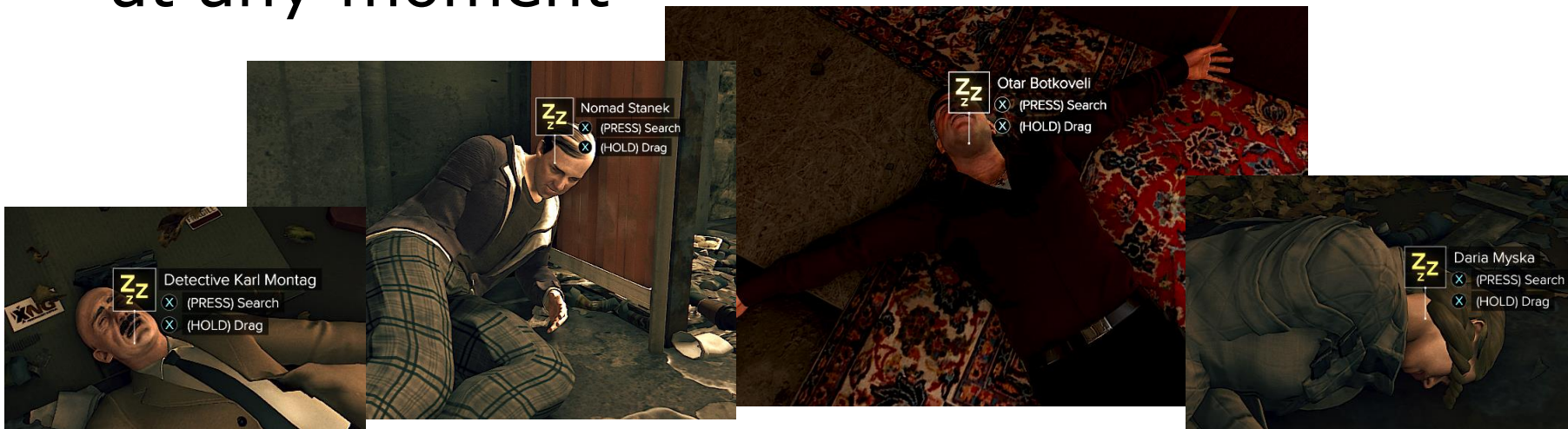




KEY NPCs CAN DIE

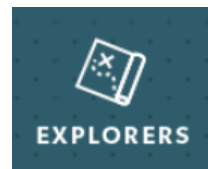


- Most of the quest givers can “disappear” at any moment





EXPLORER MOTIVES

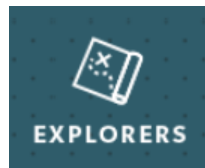


- *"I want to see everything"*
 - We provide deep pockets of exploration
 - We support preemptive objectives

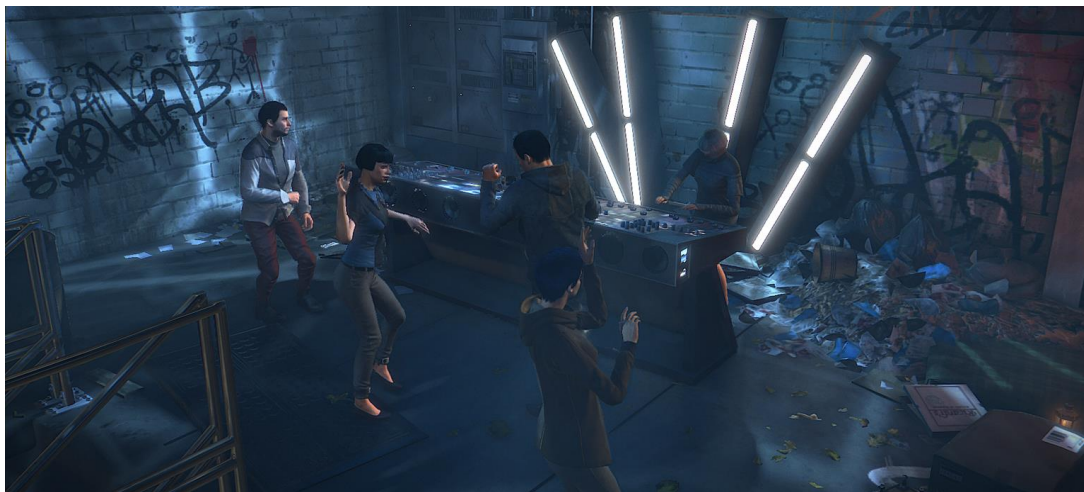




CONSEQUENT DESIGN RULE



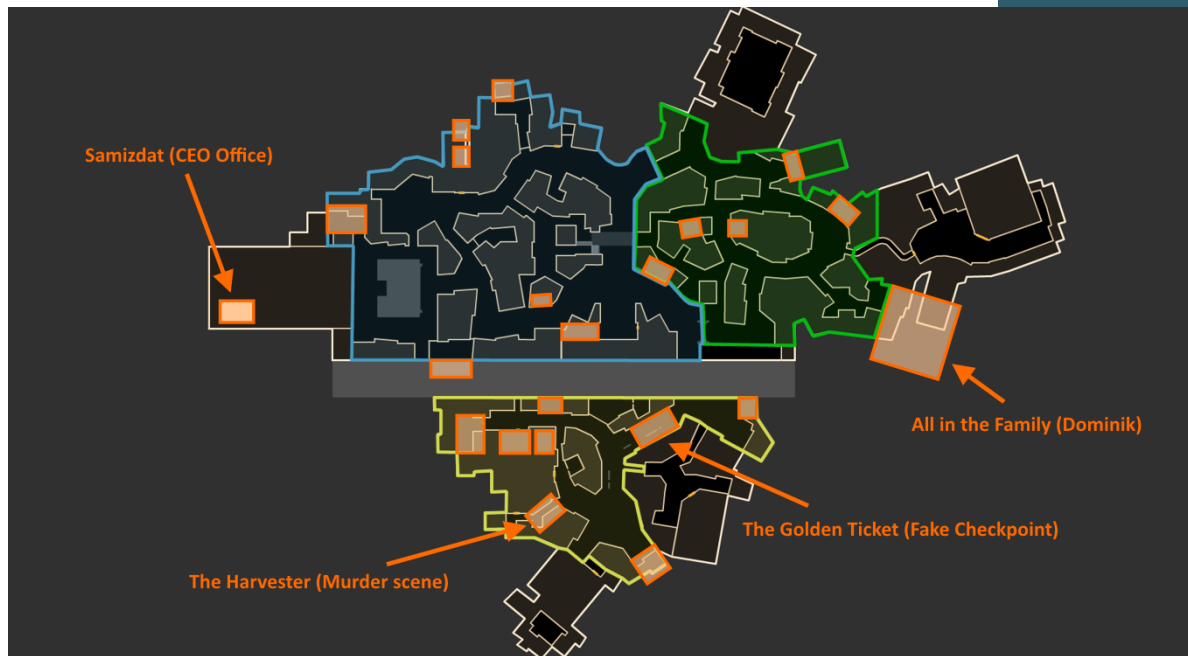
- The Explorer drives the side content





SIDE MISSIONS

- Non-overlapping locations
 - Outside crit path
 - Sewers ideal!
- Freed up space later for larger setups





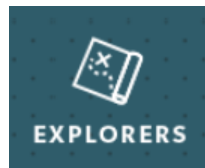
EXPLORATION SETUPS

- Fills the world with compelling narrative
- Properly enticed or deliberately hidden





EXPLORATION SETUPS



- Apartments, garages, basements
 - Built from templates
 - Reusable
 - Parameterizable
 - Cheap!
 - Populates the world
 - Easy to iterate on





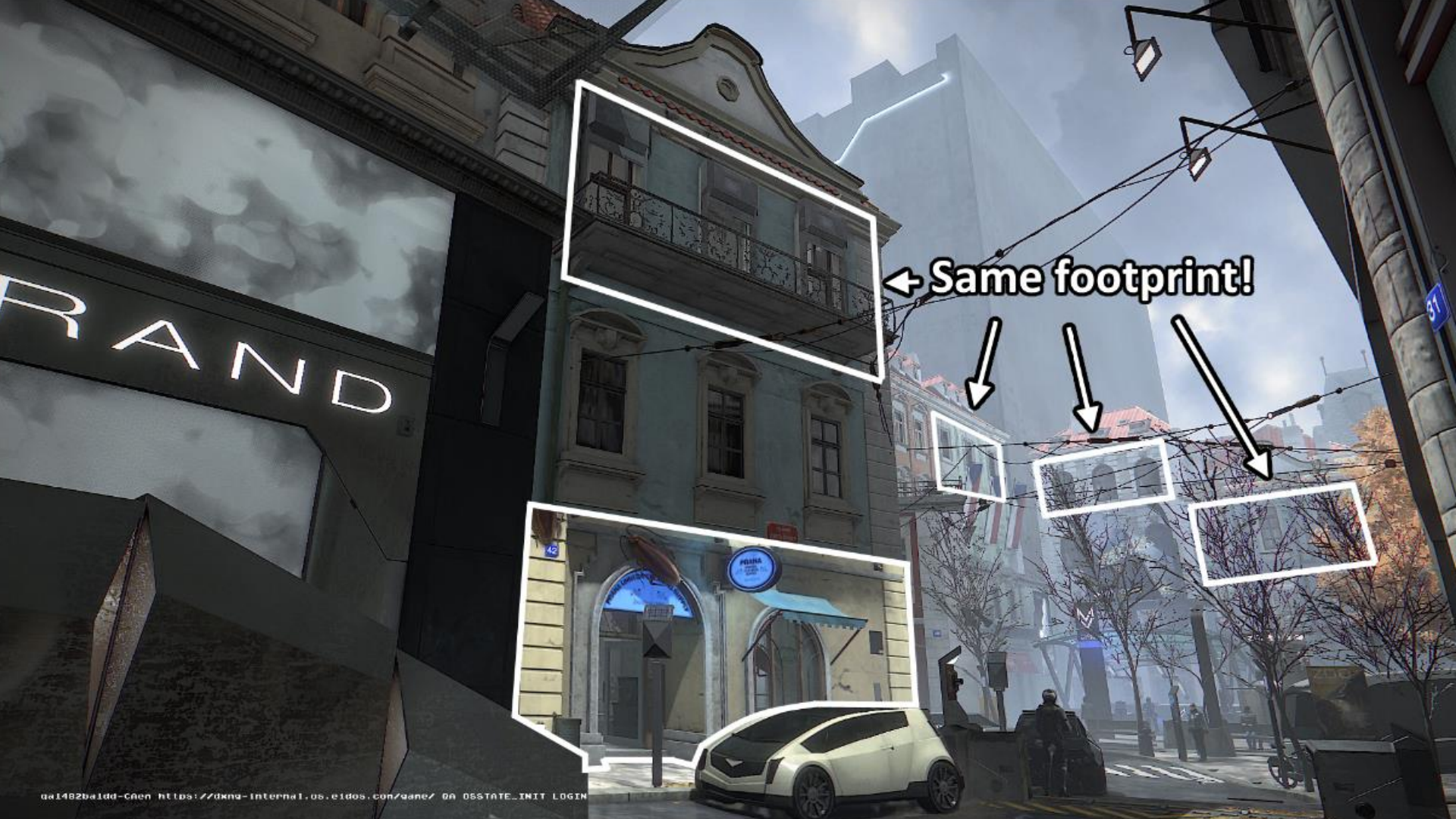




← Same footprint!



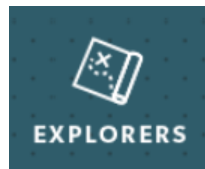
← Same footprint!



← Same footprint!



EXPLORATION SETUPS



- Apartments, garages, basements
 - *Watch Clémence's talk (GDC Vault) - **Rewarding exploration in Deus Ex Mankind Divided!***



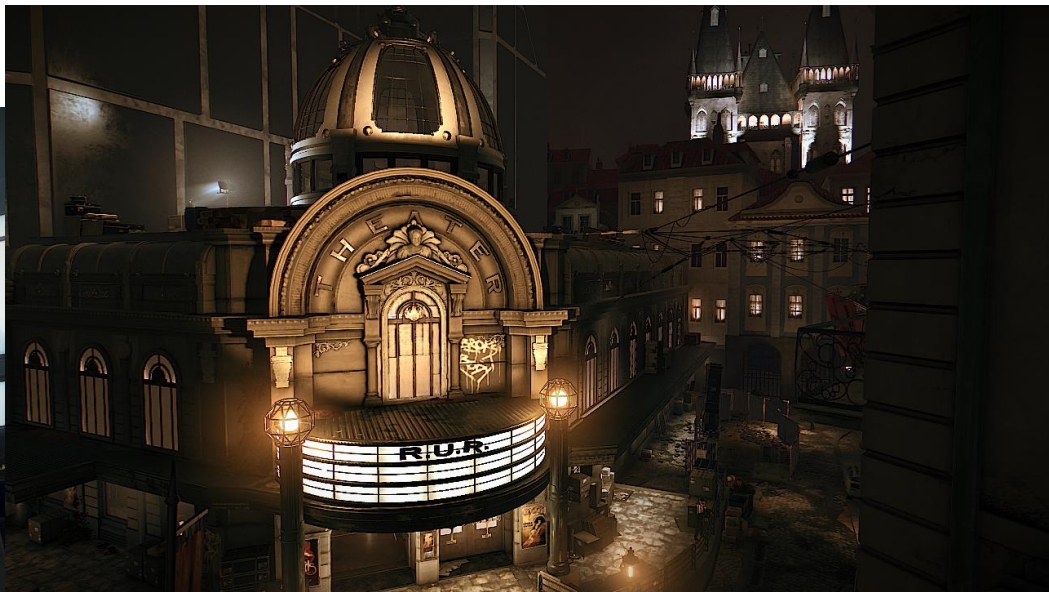


PREEMPTIVE DISCOVERY



EXPLORERS

- 75% of the city-hub can be explored beforehand



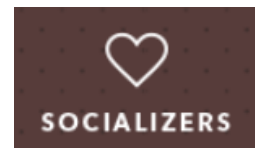


PREEMPTIVE OBJECTIVE COMPLETION





SOCIALIZER MOTIVES

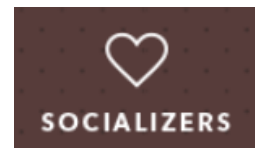


- *"I want to bond with NPCs"*
 - We provide deep conversations with high stakes
 - We provide merchants to trade with





CONSEQUENT DESIGN RULE



- The Socializer drives the LBW

**Living & Breathing World*





DEBATES

- Deeper, *life-at-stake* conversations
- Permanent outcomes



SOCIALIZERS





CONVERSATIONS & TRADE



SOCIALIZERS

- RPG Conversations
 - Quest givers
- Merchants
 - Goods
 - Information





ACHIEVER MOTIVES



- *"I want to do what you can't"*
 - Reward creativity
 - Create desire to reach places no one else can





CONSEQUENT DESIGN RULE



- The Achiever adds the flavor





REWARD CREATIVITY





DESIGN 'UNREACHABLE' PLACES





How do you cater for player choices in a city hub?





CHOICES ARE ALL ABOUT FEEDBACK



- Branching without acknowledging is cheap but useless
- Finding our vectors for feedback
 - Main missions
 - Side quests
 - Independent content





ACKNOWLEDGING CHOICES



- e-mails & newspapers





MAILBOX



SERVER ADMIN

UNREAD

**URGENT: MANDATORY
PASSWORD RESET**



URGENT: MANDATORY PASSWORD RESET

FROM : SERVER ADMIN

TO : DUNCAN MACREADY, PETER CHANG, VINCENT BLACK



ATTEMPTED INTRUSION DETECTED

Precautionary Measure: Change passwords.

Repeated intrusions will trigger automatic reset deployment.



L Move Selection **R** Scroll **B** Close **L** Disconnect



FORENSIC TEAM ATTACKED IN RUŽICKA STATION

PRAGUE
TOP STORY

Terror struck the bombed-out shell of Ružicka train station a second time today when an unidentified augmented assailant broke through police cordons and savagely attacked forensic investigators. State Police have yet to reveal how many of their teammates were injured or

evidence related to the bombing,” said police spokesman Alexej Volner.

The killer’s whereabouts remain unknown at this time. He is believed to have escaped via subway tunnels leading to downtown, most likely by using his augments. State Police are

AUGMENTED REPORTER FOUND MURDERED

PRAGUE
EDITORIAL

State Police are investigating a grisly murder in Prague’s Překážka District tonight: Local augmented reporter Angela Gunn, best known for a number of well-received political exposés, was found dismembered in an alley.

Citizens are reminded to be vigilant and remain in secure, well-lit areas at night.

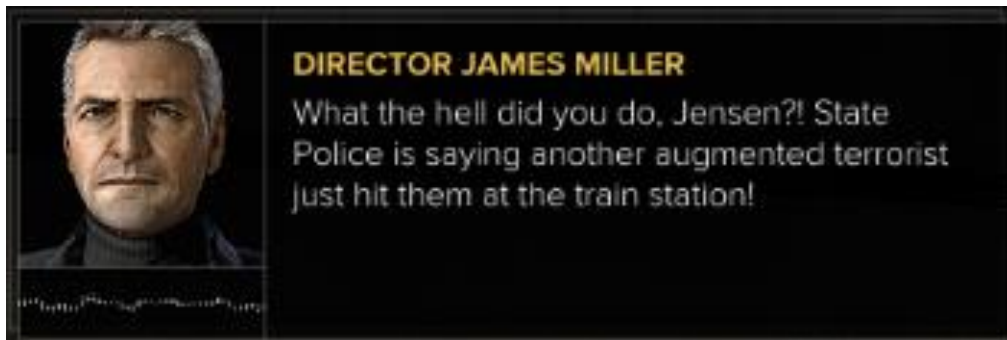




ACKNOWLEDGING CHOICES



- Briefers





ACKNOWLEDGING CHOICES

- Overheard conversations



Skipped Allison

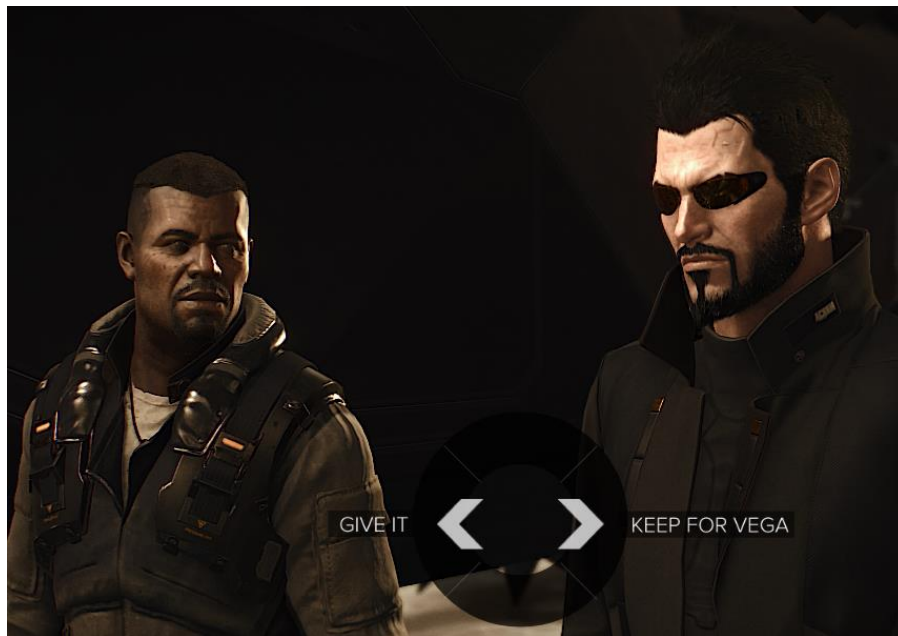


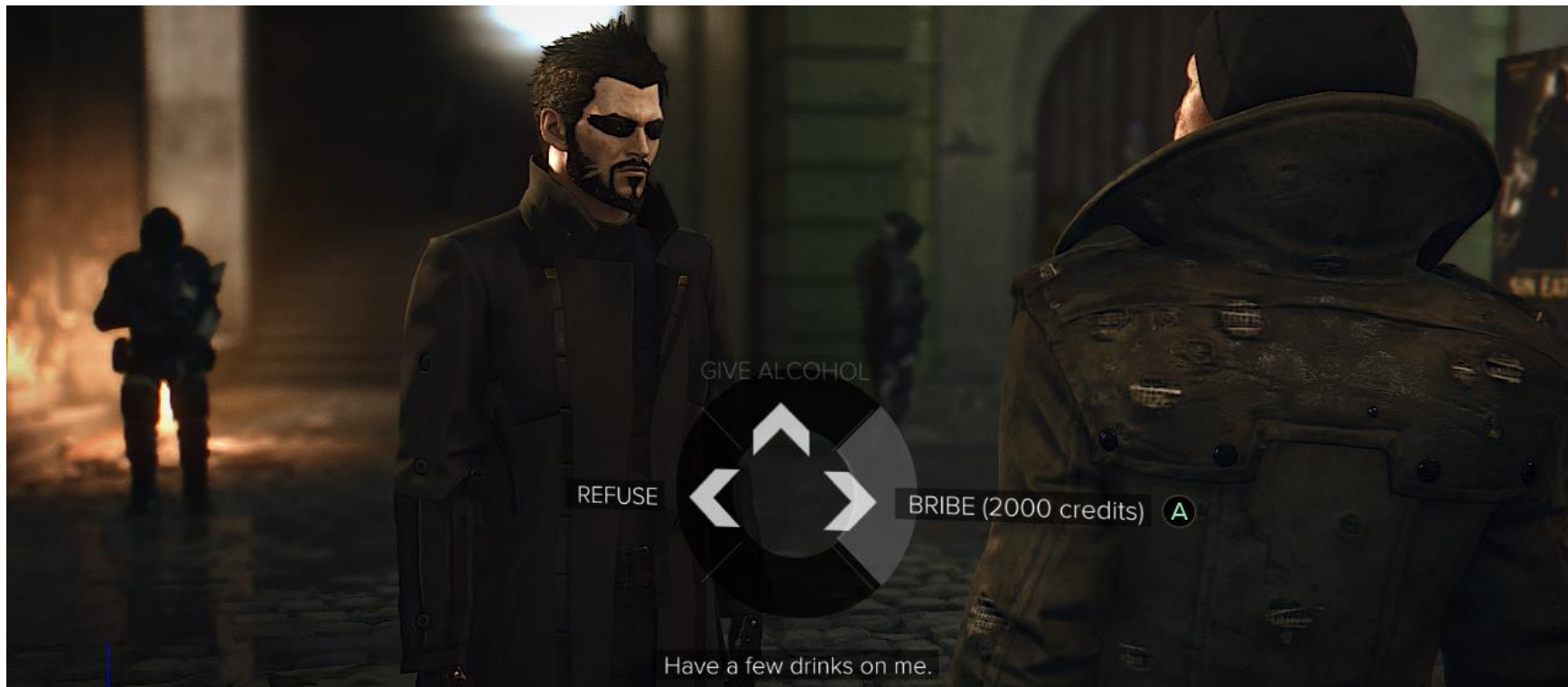


ACKNOWLEDGING CHOICES



- Conversations

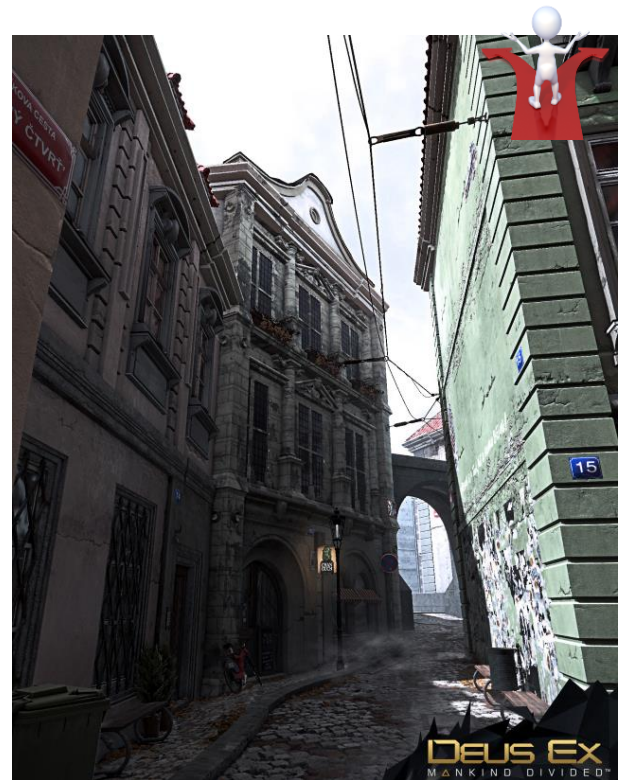






ACKNOWLEDGING CHOICES

- City hub
 - Various ways to customize





BUILDING CONSEQUENCES



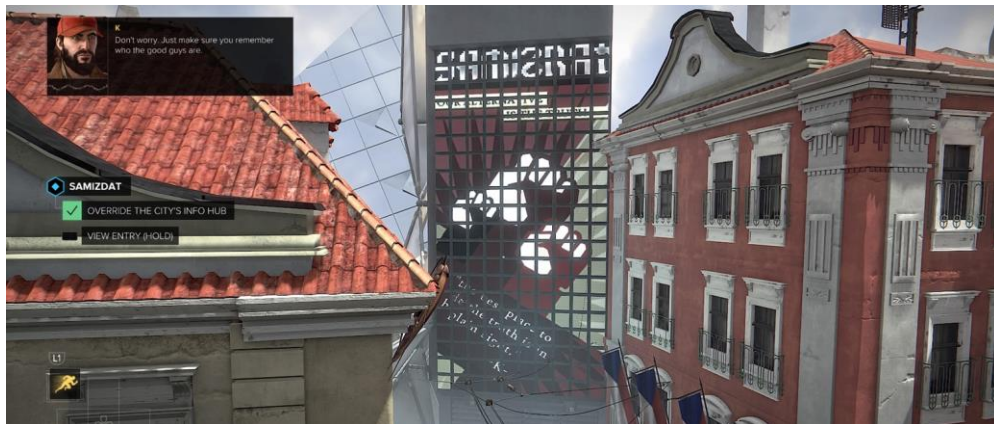
- Critical path changes
 - 3 Visits (day/night/curfew)
 - Really expensive





BUILDING CONSEQUENCES

- Side Quest changes
 - Samizdat (propaganda wall, facade)





BUILDING CONSEQUENCES

- Expensive optional set-up
 - **The Calibrator** side quest
 - Conversation (with Koller)
 - Debate (with Otar)
 - Conversation (with Gallois in Golem City)
 - *Full new side quest!*
 - Player rewarded only in visit 2 and 3!
 - *(also: Koller's shop may burn)*





BUILDING CONSEQUENCES



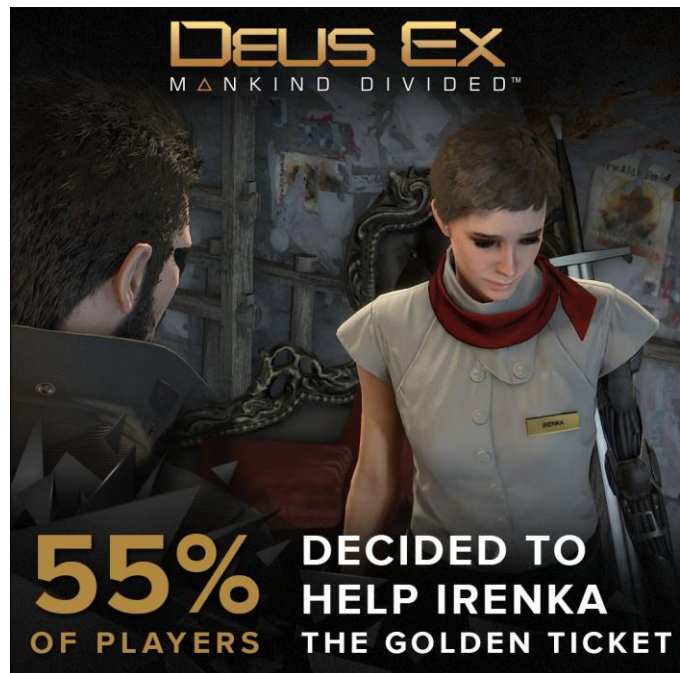
- Independent setups changes
 - Fewer resources left...
 - ...lots of contents to implement
 - Bank, Shops, TF29, ...
 - Time to get smart!





BUILDING CONSEQUENCES

- Branching
 - Classic & Familiar
 - Extensively used in DXHR
 - Quickly expensive
 - story changes
 - large dependencies





BEYOND BRANCHING



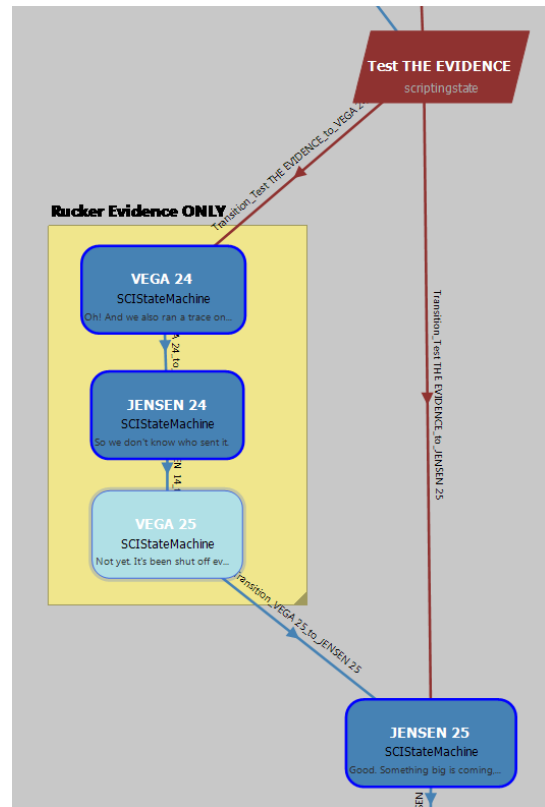
- We want scalability
 - Esp. for side quests such as **Samizdat** or **The Harvester**
- But not at the expense of something else
 - Full time designer & writer on each
 - New approach required





BRACKET TECHNIQUE

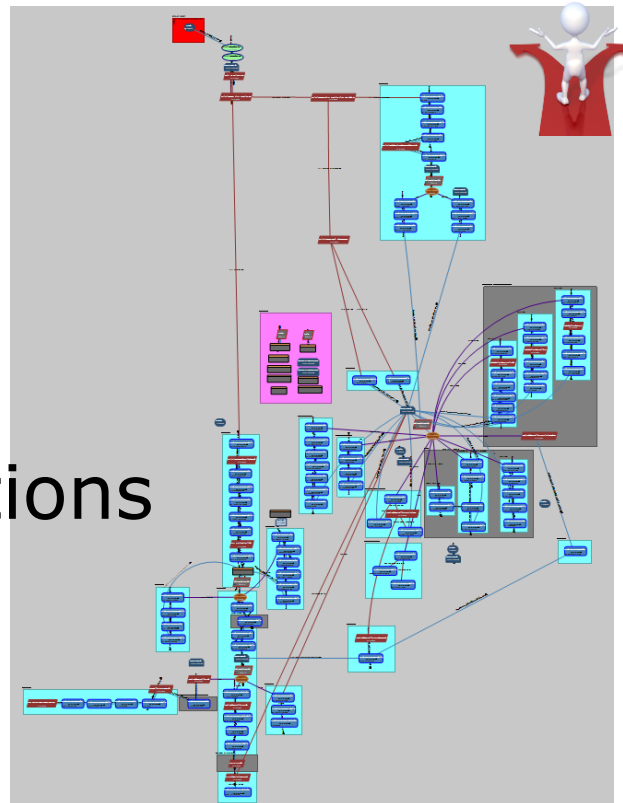
- Branch out
- Merge back
- Cheap-o-meter: 5/10





APPLYING TECHNIQUE

- Works well with briefers
 - Simple
 - Maintainable
- Not so much with conversations
 - Too much branching already
- Cheap-o-meter: -2/10





What if, instead of thinking in terms of **outcomes**, we thought in terms of **states**?

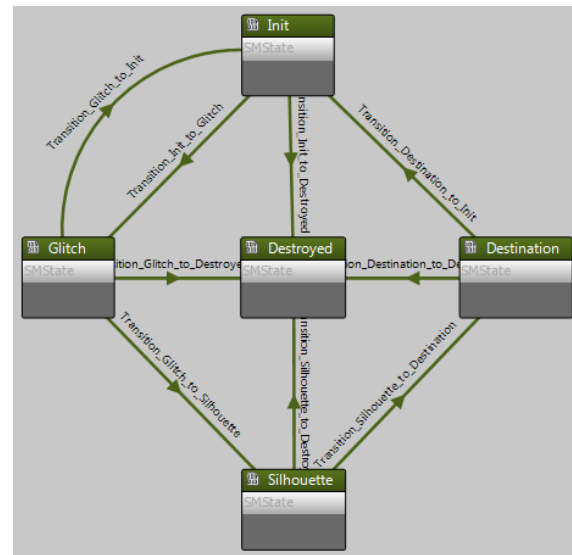




STATES?



- Standalone (coexistence)
- Scalable (transitions)
- Match exactly player actions
- Controlled costs
 - Cheap-o-meter: 8/10!







SHOPS





STATES



- Use templates as a canvas
- Establish our states in regard with story
 - Vectors can be e-mails, NPCs, etc
- Design transition conditions
- Make sure they don't overlap
 - Especially when we alter the world
 - (i.e. propping)





BANK





BANK





BANK









IT SUPPORT

5

WATCH YOUR STEP



COMBAT RIFLE
30
0

FRAG
1

+



COMBINATIONS ARE INFINITE!



- All states coexist happily together
- Each player gets its own tailored experience
 - Depending on how deep each interacted with the world





IT'S A MATTER OF RESOURCES



- And how you manage the balance
 - Spend it more where most people will see
 - Reserve large scale consequences for the critical path
 - Be smart elsewhere
 - Use cheap tricks for the 1%

(Psst! You can break the rules if you understand them first)







VERBOSITY

- Tons of readables
 - 600+ e-mails
 - 250+ pocket secretaries
 - 250+ conversations
 - 50+ newspapers
- No tools to track them
 - track manually :(

Readables

Email_Jensen_Acronym
Email_TF29_ALL_Briefing_PW
Email_TF29_ALL_Chang_Update_cond
Email_TF29_ALL_Infirmiry_Theft_cond
Email_TF29_ALL_Server_Warning_cond
Email_TF29_ALL_Shooting_Comp
Email_TF29_Allen_1
Email_TF29_Allen_2
Email_TF29_Argento_1_cond
Email_TF29_Argento_2
Email_TF29_Argento_3
Email_TF29_Argento_Code
Email_TF29_Auzenne_1
Email_TF29_Auzenne_2
Email_TF29_Auzenne_Infirmiry_Code
Email_TF29_Auzenne_Infirmiry_Theft_C
Email_TF29_Auzenne_JGC_Password
Email_TF29_Baker_1
Email_TF29_Baker_2
Email_TF29_Black_2
Email_TF29_BriefingRoom_2
Email_TF29_BriefingRoom_3
Email_TF29_Carter_1
Email_TF29_Carter_2
Email_TF29_Carter_NSNcodeReset
Email_TF29_Chang_1
Email_TF29_Chang_2
Email_TF29_Connolly_1
Email_TF29_Connolly_2
Email_TF29_Cook_1
Email_TF29_Cook_2
Email_TF29_Daniels_1
Email_TF29_Daniels_2



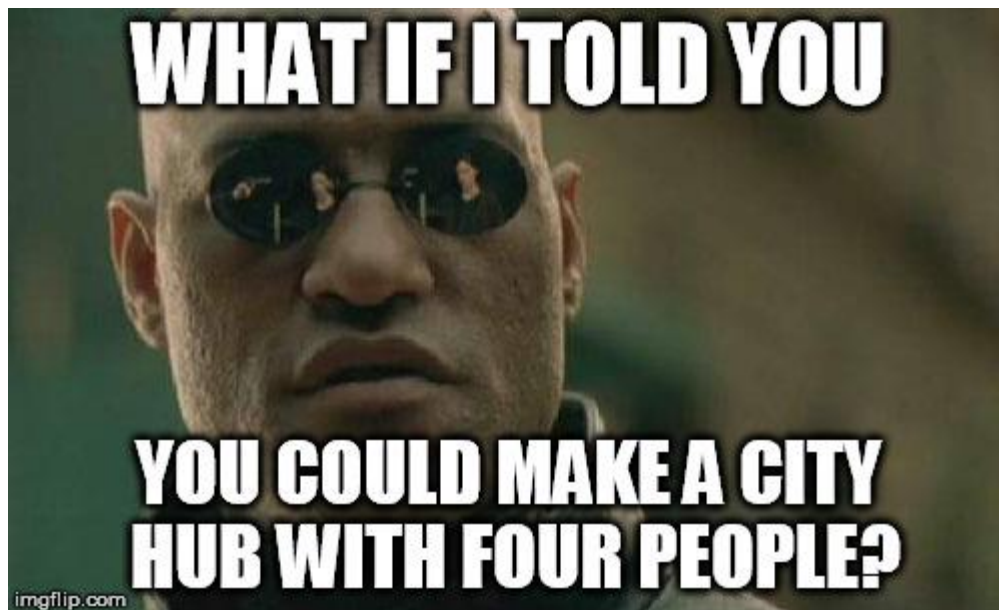


GETTING QA UP TO SPEED



- QA **needs** to know!
 - Or else you're wasting their time!
 - Undocumented stuff gets lost!
- Document every choice & consequence
 - In an easy-to-update way









FIRE IN THE KITCHEN!

Engine challenged in handling large worlds
+
Work-in-progress features

= Hit on stability & performance





STABILITY WOES

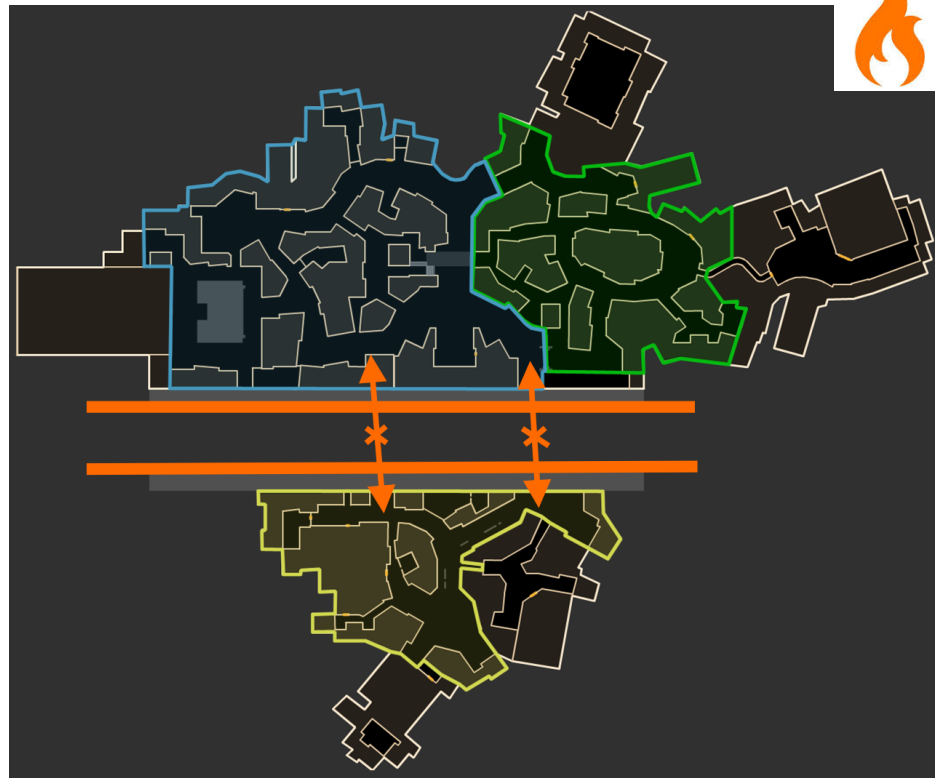
- Too many things for QA to test
 - Frequent builds or stable builds?
- Morale got hit
- **We shipped as is**
 - *using a mental database of careful workarounds™*





PRAGUE SPLIT

- Collateral
- Ate too much RAM
- Thank god fast travel!





ENFORCE HEAVY PROCESSES

- Or else we simply would not ship
 - or in a very ugly state
 - ...tell us about it :)
- Mandatory JIRA tracking
 - 100+ issues per human
 - Necessary evil





HERE COMES THE CAVALRY

- All aboard!
 - Narrative
 - Animation
 - AI
 - Side Missions
 - Performance
- Over specialization
 - cover, mini-map, patrols, gestures...





CUT CUT CUT

- *"They won't know what's coming"*
- Cutting is safer than
- Cutting is also faster than
 - e.g. Airborne reinforcements
 - Broke 2 weeks before sub :(
 - *(back in A Criminal Past DLC, out now!)*





IT SHIPPED





CONCLUSION & TAKEAWAYS

- Identify your players and what they do
- Design your city hub around them
- Acknowledge choices made
- Be smart with branching
- Ultimately it's always a question of how and where you invest





More Deus Ex talks!

- **Rewarding Exploration** - Clémence Maurer (Vault)
- **Storytelling** - Rayna Anderson (Vault)
- **Deus Ex Breach** - Fleur Marty (3/2 @10am)
- **Deus Ex 1 Post-Mortem** - Warren Spector (3/2 @4pm)

We're hiring!
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