KINGDOMS OF AMALUR

RECKONING

AI Postmortem

Michael Dawe
Big Huge Games/38 Studios

What Reckoning is

...and what Reckoning isn't

Problem: Game is Way Too Big™

load more comments (1 reply)

[–] **Peleliu** 3 points 21 hours ago*

When it comes to games (rpgs specifically) I need a story that will keep me sucked in the game, like a damn good book. Is the story in KoA, deep and at a good length? vs, say, skyrim which has a short "main" story, lets say, 5 quests, and just tons of other stuff. tl;dr: is the main story long and good?

permalink

[–] **KRolston** [S] 7 points 21 hours ago

The main quest is "Way Too Long™" [that's a technical term, and an absolute requirement for a huge open-world RPG].

But for me, it is even more important that the setting and themes are Way Too Big™. Because I need a world with millions of stories... for all sorts of player styles and tastes... lots to choose from.

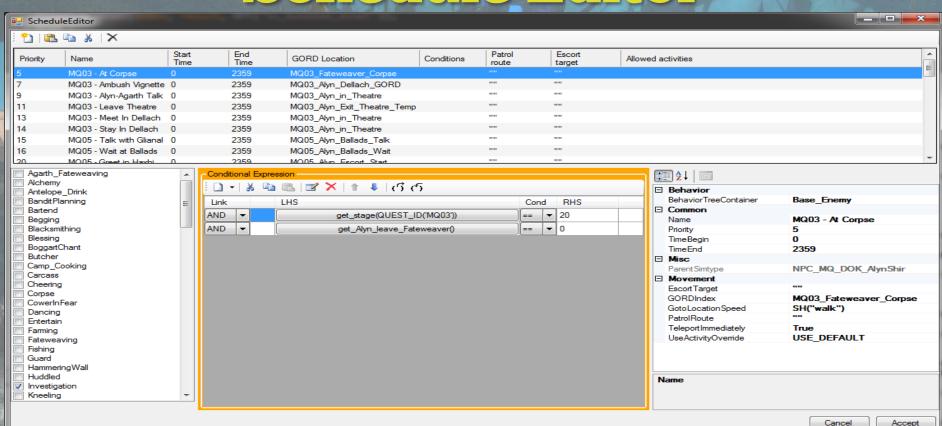And with main quests, you really only get one... and that's not enough choice for me.

Actually, I think of faction quests as alternative main quests, and they can be more varied and tailored to varied styles and tastes.

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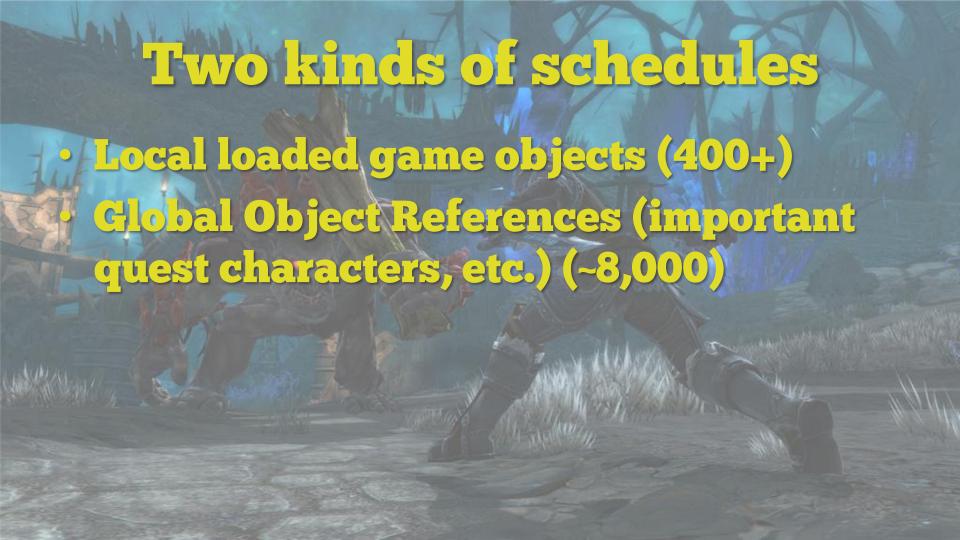
AI Challenges for Reckoning

- NPC Scheduling
- Designer/Programmer interface
- Difficulty & Player Perception

NPC SCHEDULING

NPC Scheduling Requirements

- NPCs must act independently
- Schedules must be conditionalized
- Designer specified/controlled

Two kinds of schedules

- Local loaded game objects (400+)
- Global Object References (important quest characters, etc.) (~8,000)

Local object schedules

GOR schedules – First try

- Build map of loaded/connected spaces -> GORs
- Reduced overall work
- Terrible overhead

Dal_Inn

Dal_Healer_Hut

Dalentarth

Oderath
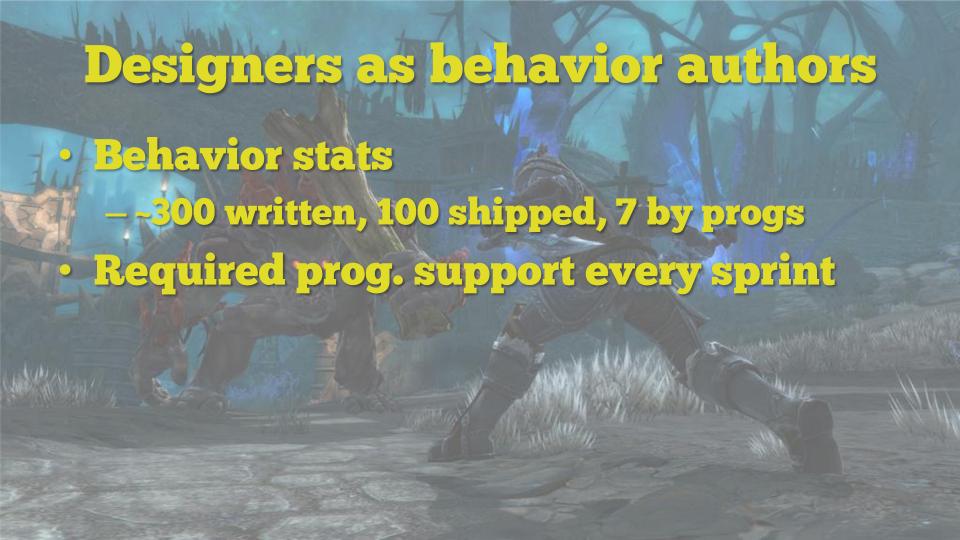
GOR schedules – Second try

- Build single list, blast through it
- Very important characters process every frame (~30 in whole game)

GOR1
GOR2
GOR3
GOR4

· · · · ·

GOR1498
GOR1499
GOR1500

DESIGNER/PROGRAMMER INTERFACE

Designers as behavior authors

- **Behavior stats**
  - ~300 written, 100 shipped, 7 by progs
- **Required prog. support every sprint**

Things we didn't know

- **Given freedom, designers will do everything**
  - **Really, everything.**
    - **attach_object_to_rig_node_alias_boss_only() will be used on non-boss objects**
      - **Then you'll be asked why it doesn't work.**
        - » **Sigh.**
- **"Why is wander_behavior causing a 20ms spike?"**

Formalize the process

DIFFICULTY

Search: Search took 0.04 seconds.

Are there any plans to add increased difficulty?
Started by naudica, 02-10-2012 11:50 AM
Replies: 0
Views: 53
Last Post: 02-10-2012 11:50 /
by naudica
Forum:
General Gameplay Discussion

Questions for the Reckoning Team
Started by Muse, 08-03-2011 10:30 AM 1 2 3 ... 108
Replies: 1,079
Views: 34,929
Last Post: 02-04-2012 05:44
by Muse
Forum:
General Discussion

Please remove the lvl cap :(
Started by Minos, 01-25-2012 02:35 PM 1 2 3 ... 5
Replies: 42
Views: 1,616
Last Post: 01-26-2012 01:47 /
by HORSE
Forum:
General Gameplay Discussion
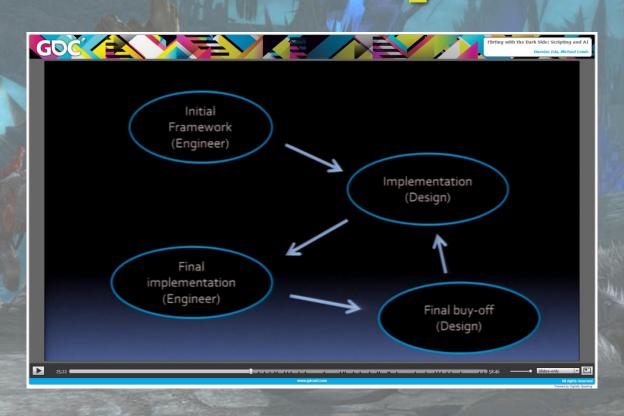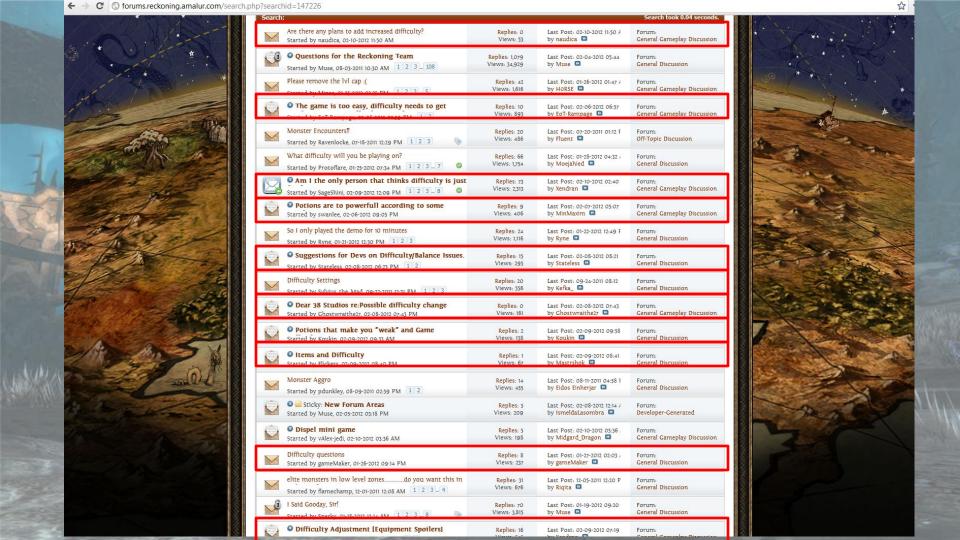
The game is too easy, difficulty needs to get
Started by EoT-Rampage, 02-06-2012 09:09 PM 1 2
Replies: 10
Views: 893
Last Post: 02-06-2012 06:57
by EoT-Rampage
Forum:
General Gameplay Discussion

Monster Encounters!!
Started by Ravenlocke, 07-18-2011 12:29 PM 1 2 3
Replies: 20
Views: 486
Last Post: 07-20-2011 01:12 F
by Fluent
Forum:
Off-Topic Discussion

What difficulty will you be playing on?
Started by Protoflare, 01-25-2012 07:34 PM 1 2 3 ... 7
Replies: 66
Views: 1,754
Last Post: 01-28-2012 04:32 /
by Moejahied
Forum:
General Discussion

Am I the only person that thinks difficulty is just
Started by SageShini, 02-09-2012 12:09 PM 1 2 3 ... 8
Replies: 73
Views: 2,313
Last Post: 02-10-2012 02:40
by Xendran
Forum:
General Gameplay Discussion

Potions are to powerfull according to some
Started by swanlee, 02-06-2012 09:05 PM
Replies: 9
Views: 406
Last Post: 02-07-2012 05:07
by MinMaxim
Forum:
General Gameplay Discussion

So I only played the demo for 10 minutes
Started by Ryne, 01-21-2012 12:30 PM 1 2 3
Replies: 24
Views: 1,116
Last Post: 01-22-2012 12:49 F
by Ryne
Forum:
General Discussion

Suggestions for Devs on Difficulty/Balance Issues.
Started by Stateless, 02-08-2012 06:23 PM 1 2
Replies: 15
Views: 295
Last Post: 02-08-2012 08:21
by Stateless
Forum:
General Discussion

Difficulty Settings
Started by Sylvius_the_Mad, 09-22-2011 12:31 PM 1 2 3
Replies: 20
Views: 556
Last Post: 09-24-2011 08:12
by Kefka_
Forum:
General Discussion

Dear 38 Studios re:Possible difficulty change
Started by Ghostwraithe27, 02-08-2012 07:43 PM
Replies: 0
Views: 161
Last Post: 02-08-2012 07:43
by Ghostwraithe27
Forum:
General Gameplay Discussion

Potions that make you "weak" and Game
Started by Koukin, 02-09-2012 09:33 AM
Replies: 2
Views: 138
Last Post: 02-09-2012 09:58
by Koukin
Forum:
General Discussion

Items and Difficulty
Started by Flickers, 02-09-2012 08:40 PM
Replies: 1
Views: 67
Last Post: 02-09-2012 08:41
by Mastrshok
Forum:
General Discussion

Monster Aggro
Started by pdunkley, 08-09-2011 02:59 PM 1 2
Replies: 14
Views: 455
Last Post: 08-11-2011 04:58 F
by Eidos Einherjar
Forum:
General Discussion

Sticky: **New Forum Areas**
Started by Muse, 02-05-2012 03:18 PM
Replies: 5
Views: 209
Last Post: 02-08-2012 12:14 /
by IsmeldaLasombra
Forum:
Developer-Generated

Dispel mini game
Started by vAlex-jedi, 02-10-2012 03:36 AM
Replies: 5
Views: 198
Last Post: 02-10-2012 05:36
by Midgard_Dragon
Forum:
General Gameplay Discussion

Difficulty questions
Started by gameMaker, 01-26-2012 09:14 PM
Replies: 8
Views: 237
Last Post: 01-27-2012 02:03 /
by gameMaker
Forum:
General Discussion

elite monsters in low level zones.............do you want this in
Started by flamechamp, 12-01-2011 12:08 AM 1 2 3 ... 4
Replies: 31
Views: 676
Last Post: 12-05-2011 12:20 P
by Riqita
Forum:
General Discussion

I Said Gooday, Sir!
Started by Sparky, 01-18-2012 12:14 AM 1 2 3 ... 8
Replies: 70
Views: 3,815
Last Post: 01-19-2012 09:20
by Muse
Forum:
General Discussion

Difficulty Adjustment [Equipment Spoilers]
Replies: 16
Last Post: 02-09-2012 07:19
Forum:
General Gameplay Discussion

Open World concessions

DO ALL THE

UNEXPECTED THINGS

memegenerator.net

COMBAT

Enemies Killed: 27

Attacks Blocked: 1,210

Critical Hits: 129

Damage Dealt: 177,767

Highest Damage: 1,549

Fateshifts Performed: 6

Enemies Fateshifted at Once: 6

Chickens Slain: 2

ADVANCEMENT

Lifetime Gold Earned: 1,412,313

Lifetime XP Earned: 301,341

Quests Completed: 61

Quests Failed: 1

Lifetime Fate Earned: 4,077

Secondary Weapon Crit Chance: 0
Critical Hit Damage Bonus: 0
Health Regeneration (per second): 0
Mana Regeneration (per second): 0
Physical Resistance: 0
Fire Resistance: 0
Ice Resistance: 0
Lightning Resistance: 0
Poison Resistance: 0
Bleeding Resistance: 0

COMBAT
Enemies Killed: 55
Attacks Blocked: 6
Critical Hits: 0
Damage Dealt: 25,768,042
Highest Damage: 5,113,904
Fateshifts Performed: 0
Enemies Fateshifted at Once: 0
Chickens Slain: 0

ADVANCEMENT
Lifetime Gold Earned: 53

B Back

STATS

Hey, you got action in my RPG

- **Beyond Kung-Fu circle**
- **Adjustable difficulty levels**

Belgian AI

Grid Weight: 2

Attack Weight: 10

Belgian AI

Charge: 6
Sweep: 4

Tumble: 5
Claw: 3

Grid Weight: 2

Attack Weight: 1

FPS: 36.19909668   MS: 27.62499809

Space:
dmo_na_combattest
Lvl: 30
GameId: 3196996526
Debug Mode:
Parts

Part Debug Rendering Selection
- ☐ Activity Part
- ☐ Ammo Part
- ☐ Animation Part
- ☐ Armor Part
- ☐ Attach To Node Alias Part
- ☐ Attributes Part
- ☐ Behavior Part
- ☐ Blocking Part
- ☐ Buff Part
- ☐ Character Customization Item Part
- ☐ Combat Part
- ☐ Component Part
- ☐ Custom Part
- ☐ Detection Part
- ☐ Fast Travel Point Part
- ☐ Formula Part
- ☐ Harvest Part
- ☐ Interaction Part
- ☐ Inventory Part
- ☐ Item Part
- ☐ Line of Sight Part
- ☐ Location Part

Object Selection
(720897) Player

Selected Object Filter   ☐ Filter On Object List

[Remove Object] [Remove All Objects]

Rendering Options

Bandit Swordsman

N