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Who am I?

- Josh Sawyer, Game Director at Obsidian Entertainment
- Tabletop role-playing gamer for 30 years.
- CRPG developer for 17 years.
- Area and narrative design, but primarily system design and direction.

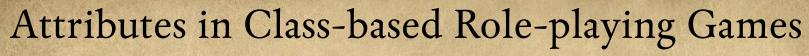


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What are we talking about?

- Pillars of Eternity
- Attributes / Ability Scores
- Viable and Optimal
- · Gods and Dumps?





- We're really talking about Advanced / Dungeons & Dragons.
- Go back to pre-Basic, but tons of games have them, from Ultima to Final Fantasy to Dark Souls.
- Used to define and distinguish fundamental aspects of the character.
- Originally random, but a greater shift to point buy.



(Comeliness!)

The Olden Tymes (Basic-2nd Edition)

- Roll dice, figure out what class you could be.
- Lots of dump stats and dead ranges (8-14).
- Viability was always in question.



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The Reasonably Intelligent Wizard in AD&D

- Make a wizard with 14 Intelligence.
- Advance to 13th level.
- Realize you can't cast 7th+ level spells.





The Reasonably Strong Fighter in AD&D

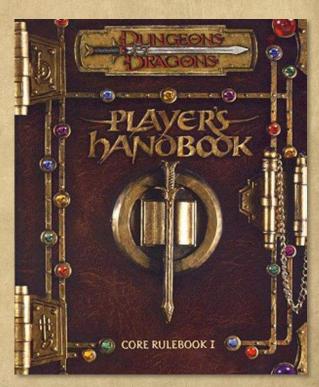
- Start with 15 Strength (Khalid in Baldur's Gate), take Specialization.
- Damage is terrible compared to someone with 18(00) Strength 1d10+2 (7.5) vs. 1d10+8 (13.5)
- Advance to 13th level, take Grand Mastery, get a +4 weapon.
- Damage is still bad compared to someone with 18(00) Strength 1d10+9 (14.5) vs. 1d10+15 (20.5)





The 3E Shift

- Explicit class requirements and bonus XP disappeared.
- Linear bonus progression (+1/2 points).
- Multiple builds were viable, if not optimal.
- Some classes require 3 stats, some 4.
- Splat books introduced more gimmick build possibilities.
- A core fighter with high Intelligence, low Strength is a bad fighter. With the right optional rules, they could easily be a viable fighter.



3.X = Min-Maxer's Delight

- Stacking rules clarified, but left more room for optimization (bonus types).
- Character builders and online forums allow for much more in-depth analysis.
- Apotheosis of 3.X = Lol-R-SK8

Lol-R-SK8

Race Human, shapechanged Yuan-Ti Anathema most of the time

Class Cleric of the Computer I/Wizard 6/Contemplative I/Mystic Theurge 10/Seeker of Alpha Complex I/Loremaster 10/Monk I/Variant Druid I

Alignment Lawful Neutral

HD d8+7d4+9d4+d6+11d4+d8+d8 = 26d4 + 1d6 + 3d8 = 6 + 26x2 + 1x3 + 2x4 + 31x23 = **755 HP**

XP (436000) 435000 (30 levels), 1000 spare

BAB +13 (3.5 + 6.75+0.5+5+0.75), **+30** with divine power

Size Gargantuan

Speed (40'+10') base x2 +30' haste +10' domain = **140'**

Fly Speed (40'+10') base x2 x2 +30' haste +10' domain = 190' (good)

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Pillars' Goals

- Six attributes
- Class abilities are not explicitly associated with attributes
- Influence statistics of importance to all classes linearly.
- Primary goal: "No bad builds."
- Secondary goal: Ensure that dumping stings (reality check).



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Six Attributes - Why?

- Tradition.
- Fan feedback hovered between 5 and 7.
- Pairs worked well for 3 defenses (Fortitude, Reflex, Will) and defenses are not "opt-out".



Class abilities not associated with attributes

- Explicit ties establish inescapable emphasis for viability. Cf. D&D Intelligence and Pillars Intellect for wizards, D&D Charisma and Pillars Resolve for Paladins.
- If something is required for viable play, why is it an option?



Influence Statistics of Importance to All Classes

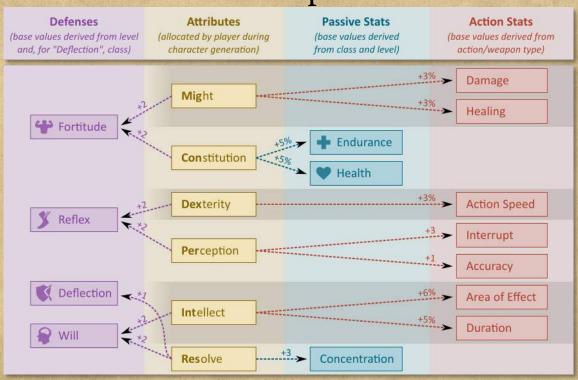


Image from the Pillars of Eternity Gamepedia, author Ineth2.

No bad builds - why?

- Role-playing is about building and expressing a character both through social interactions and (often) through mechanics.
- Viability limitations can result in mid- or late-game roadblocks.
- Fewer viability limitations = more viable character concepts:
 - The perceptive genius barbarian (high Per/Int).
 - The idiot muscle wizard (low Int, very high Might).
 - The clumsy, determined rogue (low Dex, high Res).

Cool Concept, Bad Character

- Ability scores and classes can often conflict.
 - Class A is good at X, Y, and Z.
 - Ability B drastically impacts X and Z.
- Mechanics and content balanced around one reinforcing the other.
 - Warrior THACo/BAB, Strength, and Armor Class.
 - Rogue Reflex saves, Skills, Dex, and Difficulty Class.
- A cool concept (smart fighter) can be a bad character in practice.
 - Failure to min-max key attributes results in lower totals.
 - Content that scales assuming min-maxing leaves suboptimal characters behind.

Ensure dumping stings - why?

- Not to be punitive for its own sake.
- Reality check for the importance of systems.
- If people don't care about dumping it, it's not that important.
- Choice and consequence.

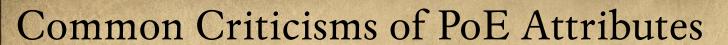


Some Good Things about PoE Attributes

- Hard to make non-viable characters.
- Easy to build a lot of unusual and viable character concepts.
- Not to hard to make different *optimal* builds that emphasize different things.
 - Interrupt-focused barbarian vs. striking barbarian
 - Gish muscle wizard vs. crowd control wizard
- Min-maxers can still go wild.
- Despite relative simplicity, mechanics allow for interesting analysis.

Accuracy and Damage

- Each point of Perception adds 1 to Accuracy, shifting Miss/Graze/Hit/Crit ranges for *all* attacks.
- Each point of Might adds 3% to Damage and Healing from any source.
- Certain builds rely more heavily on Accuracy than Damage output (e.g. crowd control) and benefit *marginally* from detailed analysis.



- They aren't realistic.
- They don't have enough of an impact.
- Perceived lack of value.
- The companions are awful!!!



They Aren't Realistic

- A/D&D's selective verisimilitude.
- Pillars already abstracts a lot.
- Realism was not a priority.



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Not Enough Impact

- Viability requirement limits relative impact.
- Linear scaling means a regular progression.
- Avoiding A/D&D's known ability score imbalances (e.g. 3.X Strength).
- Strength vs. Might 1d10+6 vs. 14-20+24%



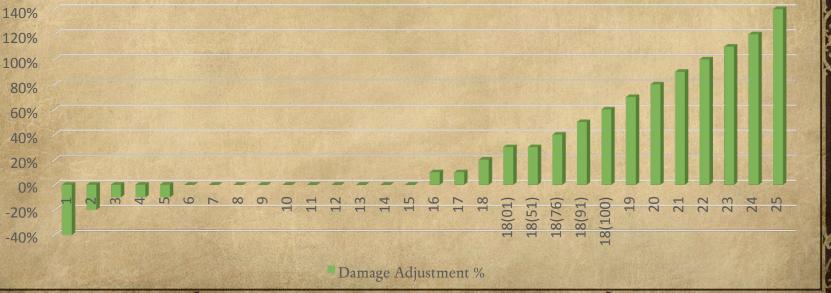
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NO NON

AD&D Strength Damage Adjustment (assumes AD&D Two-Handed Sword)

Damage Adjustment %



Pillars of Eternity Strength Damage Adjustment

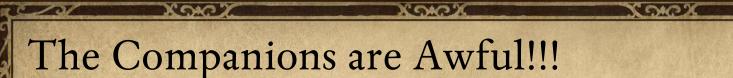
Damage Adjustment %



Perceived Lack of Value

- Percentages are hard.
- Larger numerical values pose problems.
- Poor feedback in the UI.





- Companion attributes reflect who they are as characters.
- Attributes designed to be "middle of the road" for their class, not min-maxed.
- Despite player success on Path of the Damned using stock companions, players still want to adjust them.



- Character is willful, tough, but describes failing her physical examinations in the Brotherhood of Five Suns more than once.
- As an avian godlike, she has heightened senses and her eyes are frequently described in reaction text.





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Our Stance

- We don't really care about people adjusting companion stats.
- Well, maybe a little.
- Attribute system is designed to handle it.
- S00000....



Devil of Caroc - Rogue

- Has a modest Might score (13).
- Might bonuses to damage not multiplicative, but additive.
- 18 Might would net +15% damage.
- Rogue's Sneak Attack is +50% damage.
- Most rogue active abilities add +25% damage.
- Dumping Might to 3 would be -21% damage.
- Significantly lower damage, but not "non-viable".



Changes During Dev and Post-Launch

Initial:

- Attributes all granted bonuses from 1 on.
- Perception and Resolve contributed to Deflection.
- Perception initially granted +2 to Accuracy per point (no brainer), then no attribute contributed to Accuracy.
- Constitution's bonus to Endurance and Health was 3%.
- Perception modified range.
- Intellect modified radius, not area, and by 3% increments.

Changes During Dev and Post-Launch

Eventual:

- Attributes averaged around 10, with lesser values inflicting penalties.
- Perception contributes to Accuracy (no influence on range), Resolve to Deflection.
- Constitution's bonus increased to 5%.
- Intellect modifies area in 5% increments.

You Can't Make Everyone Happy

- That's true of any design, but we didn't try to.
- Our implementation was within the audience's tolerance thresholds.
 - Some prefer no attributes, some for stronger/different attributes.
 - "We wish it were different, but it's not a deal-breaker."
 - No actual data to support this, just anecdotes.
- Ideological purity doesn't necessarily = happier players.







Would We Do It Again?

- Yeah, probably.
- Benefits outweigh the drawbacks.
- We were happy with the gameplay.
- Players seem happy, too.

Would I Do It, Personally?

- Nope!
- Don't like the conflict with classes.
- Don't like class-based systems!

Questions and Comments

Special Thanks:

- Our backers, beta testers, and players.
- Our QA testers.
- Brenda Romero.

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