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Sovereign Immortal Fetus Gu

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So, I'd like to go over a minor feat of Fang Yuan's that I still find pretty impressive. It has to do with the natural visual acuity of the Sovereign Immortal Fetus and what we can extrapolate from it through some calculations.

The feat:

In chapters 1022–1024, Fang Yuan tests the body of the Sovereign Immortal Fetus shortly after acquiring it. Without using any Gu or spending immortal essence, he finds he can clearly observe the landscape ten thousand steps away (approximately 8 km) and identify traces of an ancient battle on the ground. Even more notably, this exceptional vision remains functional while he runs at high speed through a dense forest, allowing him to avoid obstacles with ease.

Angular resolution:

Standard human 20/20 vision corresponds to roughly one arcminute. At 8 km, this allows distinguishing details of about 2.3 meters. Impact marks, cracks, footprints, and grooves are typically much smaller, requiring far higher acuity.

Since the novel does not specify the exact size of the traces, the angular resolution needed for different detail sizes at 8 km is as follows:

10 cm| 0.043′| 20/0.86| 23.3×

20 cm| 0.086′| 20/1.72| 11.7×
30 cm| 0.129′| 20/2.58| 7.8×
50 cm| 0.215′| 20/4.30| 4.7×
1 m| 0.430′| 20/8.60| 2.3×
2 m| 0.859′| 20/17.2| 1.2×

(Resolution in arcminutes, all values assume a viewing distance of 8 km)

Using ~20 cm as a convenient and plausible reference yields an acuity of roughly 12 times normal human vision higher than the commonly cited 4 ~ 8× range for eagles and other birds of prey.

Atmospheric limits andvVacuum extrapolation:

On Earth, planetary curvature and atmospheric scattering limit the visibility of fine details regardless of optical capability. Under ideal conditions (no atmosphere), the same angular resolution scales as follows: a human-sized target (1.80 m) could be distinguished at approximately 72 km, a 10 meter building at roughly 400 km, and a 1km structure at about 40,000 km. These figures maintain the same angular size as the 20 cm reference at 8 km. Smaller internal details (windows, textures, etc) would require separate consideration of contrast and lighting.

Processing and vision in motion:

The novel provides a clear demonstration of Fang Yuan's visual performance under movement. While running through a dense forest, "he could see the dense forest clearly in his vision. Even during his run, it was as if time had stopped, and Fang Yuan could easily avoid obstacles". He himself notes: "Using a phrase from Earth, this is visual acuity. My visual acuity while moving is superb to the extreme! This is definitely inhuman. My original body could only reach this stage after using Gu worms".

This implies that his visual system is not only resolving fine details at long range, but is also updating spatial information rapidly enough to keep pace with continuous changes in position. Using the novel's own comparison ("as fast as a galloping horse") and taking a racehorse's top speed of approximately 65 km/h (about 18 meters per second) as a reference, the available reaction window becomes very short: an obstacle 5 meters away would be reached in roughly 0.28 seconds, while one only 2 meters away would be reached in about 0.11 seconds.

A typical human visual-motor reaction time in complex situations ranges from 0.25 to 0.30 seconds. If Fang Yuan can still avoid obstacles with ease inside windows this short, his full processing cycle (detection > spatial calculation > decision > motor command) must be operating in the range of 0.10 ~ 0.15 or less. This points to a visual-motor processing speed roughly 2 ~ 3 times faster than a normal human's, even under a more conservative estimate (although the novel does not provide enough information to establish a precise multiplier). When high visual resolution is maintained at the same time, the overall processing demand increases further.

Conclusion:

The feat shows that the natural vision of the Sovereign Immortal Fetus is already extraordinary. Identifying traces of an ancient battle from about 8 km away without any Gu assistance is impressive on its own, but maintaining that clarity while moving at high speed through a dense forest elevates it further. The estimate of roughly 12× human acuity provides a quantitative baseline for the scale of this capability.

Thank you for reading!