Object Size

Objects can be identified with specific dimensions, but for many, it is more convenient to describe them with a Size: a general description of its bulk or volume. Size corresponds to the Benchmark objects used with the Senses and with Sensors.

Size

UNDERSTANDING SIZE

Size indicates the approximate size or dimensions of an object.

The chart shows the basic benchmark sizes. For example, the referee may say,

"You see a Person-Size something in the distance."
"You see a Size-5 object on the starport tarmac."
"Sensors pick up a Missile-Size object at separating from that ship."

Size covers a broad descriptive range, and includes some overlap. Person-Size may indicate anything larger than a suitcase and smaller than a truck. Suitcase may indicate anything larger than a book and smaller than a person.

Sizes can be decimal. An object slightly smaller than Size-6 is Size 5.9; a slightly larger object is Size 6.1.

Carrying and Using. A Size-N sophont can typically carry and use any object less than its own Size. For example, a Size 5 Sophont can carry and use a Size 4 Object. A Size-6 truck can carry many Size-5 objects.

Size and World Range (or Distance) are related. A person with ordinary vision usually see an object of Size-N or larger at Range-N or less.

SIZES AT WORLD RANGES

> Benchmark										
		Wire	Word	Bullet	Card	Book	Suitcase	Person	Truck	Tower
Size		1 mm thin	2 mm 10 point	7 mm 0.3 inch	75 mm 3 inches	200 mm 8 inches	750 mm 30 inches	1.5 m 5 feet	7.5 m 25 feet	75 m 250 feet
Size	**0**	**R**	**T**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
Distance	Contact	.5m	1.5m	5m	50m	150m	500m	1000m	5km	50km
Weapon			Serial No.	Bullet	Snub	Pistol	Rifle	Person	Vehicle	
Vehicle		Crack	Seam	Bolt				Person	Truck	SC
Device		Wire					Fusion+	Person		

Size= approximately the width of 5 minutes of angle at the range shown.

DECIMAL SIZES

Length			1.0 mm	2.0 mm	7 mm	7.5 cm	20 cm	7.5 m	1.5 m	7.5 m	75 m
1	.1	.1 mm	1.1 mm	2.5 mm	8 mm	8 cm	25 cm	.8 m	1.6 m	8 m	80 m
2	.2	.2 mm	1.2 mm	3.0 mm	9 mm	9 cm	30 cm	.9 m	1.7 m	9 m	90 m
3	.3	.3 mm	1.3 mm	3.5 mm	10 mm	10 cm	35 cm	1.0 m	1.8 m	10 m	100 m
4	.4	.4 mm	1.4 mm	4.0 mm	11 mm	11 cm	40 cm	1.1 m	1.9 m	11 m	110 m
5	.5	.5 mm	1.5 mm	4.5 mm	45 mm	15 cm	45 cm	1.0 m	2.0 m	45 m	450 m
6	.6	.6 mm	1.6 mm	5.0 mm	50 mm	16 cm	50 cm	1.1 m	5.0 m	50 m	500 m
7	.7	.7 mm	1.7 mm	5.5 mm	55 mm	17 cm	55 cm	1.2 m	5.5 m	55 m	550 m
8	.8	.8 mm	1.8 mm	6.0 mm	60 mm	18 cm	60 cm	1.3 m	6.0 m	60 m	600 m
9	.9	.9 mm	1.9 mm	6.5 mm	65 mm	19 cm	65 cm	1.4 m	6.5 m	65 m	650 m

HOW BIG IS IT REALLY?

Roll Flux to randomly generate an object size.

Flux	x	R= **0**	**R**	**T**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
-5	0.5	--	0.5 mm	1.0 mm	2 mm	20 mm	10 cm	20 cm	1.0 m	3 m	20 m
-4	0.6	--	0.6 mm	1.2 mm	3 mm	30 mm	12 cm	30 cm	1.1 m	4 m	30 m
-3	0.7	--	0.7 mm	1.4 mm	4 mm	40 mm	14 cm	40 cm	1.2 m	5 m	40 m
-2	0.8	--	0.8 mm	1.6 mm	5 mm	50 mm	16 cm	50 cm	1.3 m	6 m	50 m
-1	0.9	--	0.9 mm	1.8 mm	6 mm	60 mm	18 cm	60 cm	1.4 m	7 m	60 m
0	**1.0**		**1.0 mm**	**2.0 mm**	**7 mm**	**75 mm**	**20 cm**	**75 cm**	**1.5 m**	**7.5 m**	**75 m**
+1	1.2	0.1 mm	1.2 mm	2.4 mm	8 mm	80 mm	30 cm	80 cm	2 m	10 m	80 m
+2	1.4	0.2 mm	1.4 mm	2.8 mm	9 mm	90 mm	40 cm	90 cm	3 m	20 m	90 m
+3	1.6	0.4 mm	1.6 mm	3.2 mm	10 mm	100 mm	50 cm	100 cm	4 m	30 m	100 m
+4	1.9	0.6 mm	1.8 mm	3.8 mm	11 mm	120 mm	60 cm	120 cm	5 m	40 m	110 m
+5	2.0	0.8 mm	1.9 mm	4.0 mm	12 mm	150 mm	70 cm	150 cm	6 m	50 m	120 m