The Complete Treatise on the Ghosh Economy

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Abstract

This treatise provides a comprehensive description of the Ghosh economy.
The treatise ends with "The End"

Introduction

The Ghosh economy is the Holy Grail of representative economics.
This treatise provides a comprehensive description of the Ghosh economy.

Theoretical Framework

The Ghosh economy is the economy of the representative agents of economies.

Population Configurations

The population P of the Ghosh economy is

$$P = G + g + i + f + t$$

where
$P = 9$ is the population of the Ghosh economy
$G = 1$ is Soumadeep Ghosh, the representative agent of economics
$g \geq 0$ is the number of ghosts in the Ghosh economy
$i \geq 0$ is the number of idiots in the Ghosh economy
$f \geq 0$ is the number of fools in the Ghosh economy
$t \geq 0$ is the number of tools in the Ghosh economy
Thus,
$$g + i + f + t = 8$$

, which has 165 configurations.

Wealth Distribution

Define
$$f(a, b, c, d) = \frac{1}{1 + \exp a + \exp b + \exp c + \exp d}$$

Let
$$W = W_G + W_g + W_i + W_f + W_t > 0$$

be the sum of wealth in the Ghosh economy
where

$$\frac{W_G}{W} = f(g, i, f, t)$$

$$\frac{W_g}{W} = f(G, i, f, t)$$

$$\frac{W_i}{W} = f(G, g, f, t)$$

$$\frac{W_f}{W} = f(G, g, i, t)$$

$$\frac{W_t}{W} = f(G, g, i, f)$$

An approximate solution to

$$1 = f(g, i, f, t) + f(G, i, f, t) + f(G, g, f, t) + f(G, g, i, t) + f(G, g, i, f)$$

is

$$G = \frac{894649}{2101419}$$

$$g = \frac{546719}{424581}$$

$$i = -\frac{2879777}{553246}$$

$$f = -\frac{1590705}{902093}$$

$$t = -\frac{627018}{465779}$$

Then,

$$f(g, i, f, t) \approx 0.197569$$
$$f(G, i, f, t) \approx 0.336938$$
$$f(G, g, f, t) \approx 0.151820$$
$$f(G, g, i, t) \approx 0.155745$$
$$f(G, g, i, f) \approx 0.157928$$

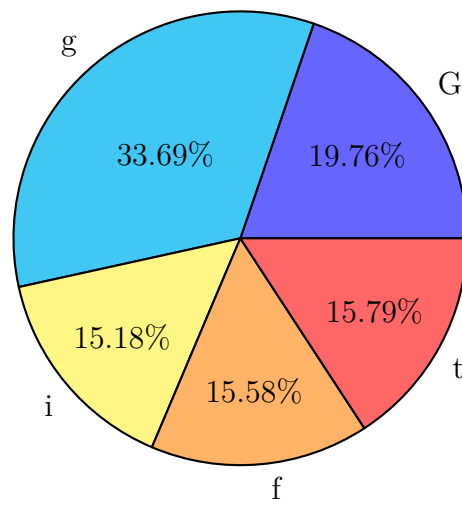Thus the wealth distribution in the Ghosh economy correct to 4 significant figures is

Figure 1: Wealth distribution in the Ghosh economy.

The End