

2.2.1.1. Demographic dynamics (survival probabilities, intergenerational transfers).

In each period t , the economy is populated by J overlapping generations indexed by $j = 1, \dots, J$. In each generation J , there are two groups of households: low and high skills, indexed by $s = 1$ for the most qualified households and $s = 2$ the least qualified households, if otherwise indicated, both skill groups have the same parameters. Survival from one period to the next is assumed to be stochastic and that $\psi_{j,s}$ is the probability that an agent will survive from age $j - 1$ to age j , conditional on living in the age $j - 1$, for the skill class s .

The size of the cohort corresponding to age j in the period t is

$$N_{j,s,t} = \psi_{j,s,t} N_{j-1,s,t-1} \quad \text{con} \quad N_{1,t} = (1 + n_{p,t}) N_{1,s,t-1} \quad (1)$$

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequaleam animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facere et urbane Stoicos irridere, statua est in quo a nobis philosophia defenda et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum defuturum, quas natura non depravata desiderat. Et quem ad me accedis, saluto: 'chaere,' inquam, 'Tite!' lictores, turma omnis chorusque: 'chaere, Tite!' hinc hostis mi Albucius, hinc inimicus. Sed iure Mucius. (see Eq. (2)).

$$c^2 = a^2 + b^2 \quad (2)$$

where ...

$$x = \int_0^x dx \quad (3a)$$

$$(uv)' = u'v + v'u \quad (3b)$$

Eq. (3a) is a simple integral, while Eq. (3b) is the derivative of a product of two functions. These equations are grouped in Eq. (3).

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2.3. Section

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2.3.1. Subsection

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3. Tables

Below is Table 1.

Table 1: Example

Header 1	Header 2	Header 3
Row 1	12.0	92.1
Row 2	16.6	104

4. Figures

4.1. Simple figure

Below is Fig. 1.



Figure 1: Typst logo - Credit: @fenjalien

4.2. Subfigures

4.2.1. Subfigures

Below are Figs. 2a and 2b, which are part of Fig. 2.



(a)



(b)

Figure 2: (a) Left image and (b) Right image

A. Appendix A

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$$y = x^2$$

(A.1)

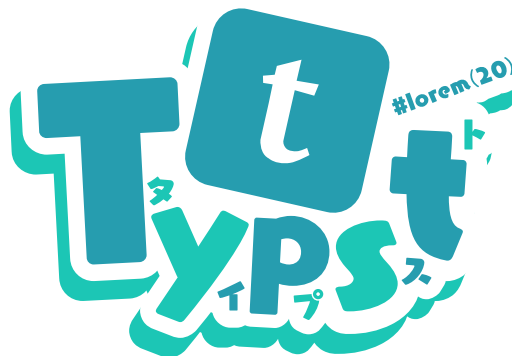


Figure A.1: Typst logo - Credit: @fenjalien

References

- [1] M. Thales, On the Use of Similar Triangles for Measuring Heights of Pyramids, Journal of Early Geometrical Methods 1 (600AD) 42–58.
- [2] S. Pythagoras, Harmony and Ratio: On the Numerical Structure of Musical Intervals, Transactions of the Pythagorean Society 4 (530AD) 1–9.

- [3] S. Pythagoras, M. Thales, Toward a Unified Theory of Number and Form: Foundations of Mathematical Philosophy, *Annals of Ionian Thought* 2 (520AD) 100–120.