

La malattia dello stare in piedi



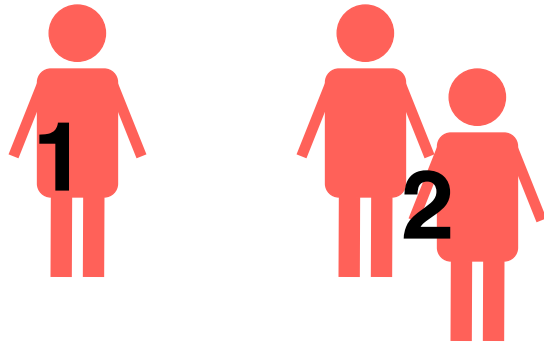
Materiale aggiuntivo per l'articolo:

Kucharski A et al. (2017) Disease dynamics: understanding the spread of diseases. *Science in School* 40: 52–56. www.scienceinschool.org/2017/issue40/diseasedynamics



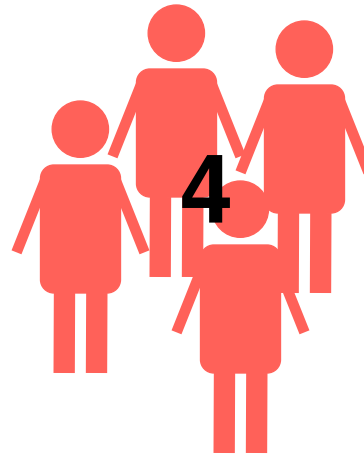
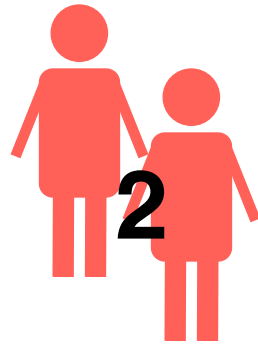
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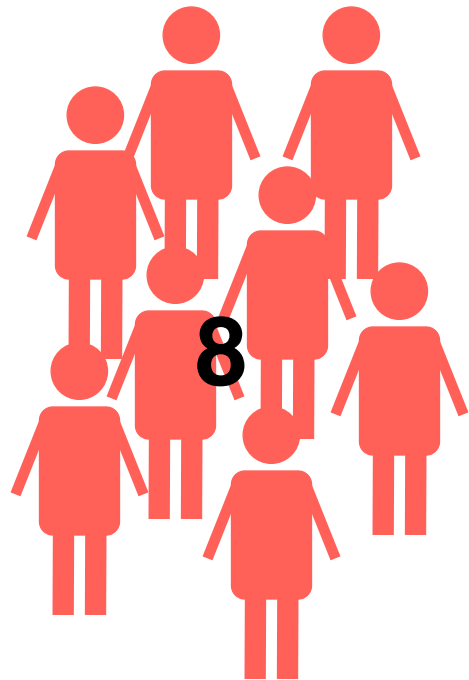
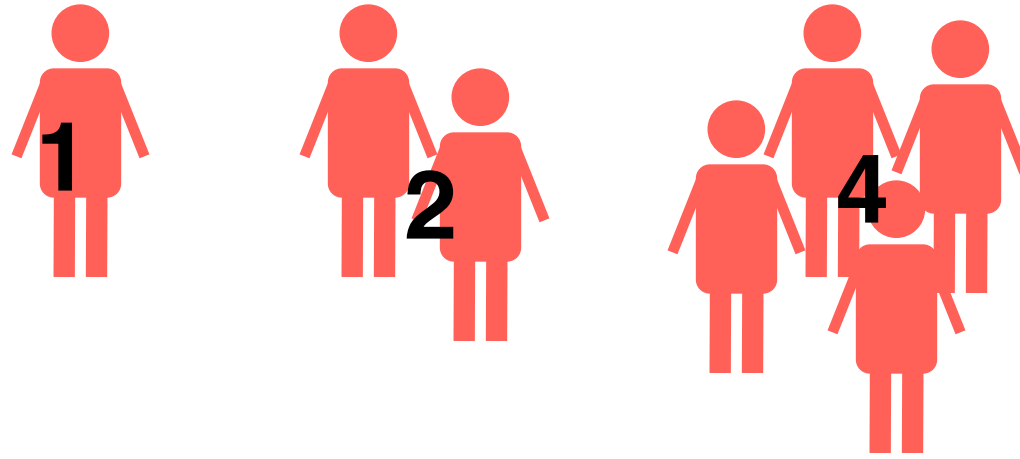
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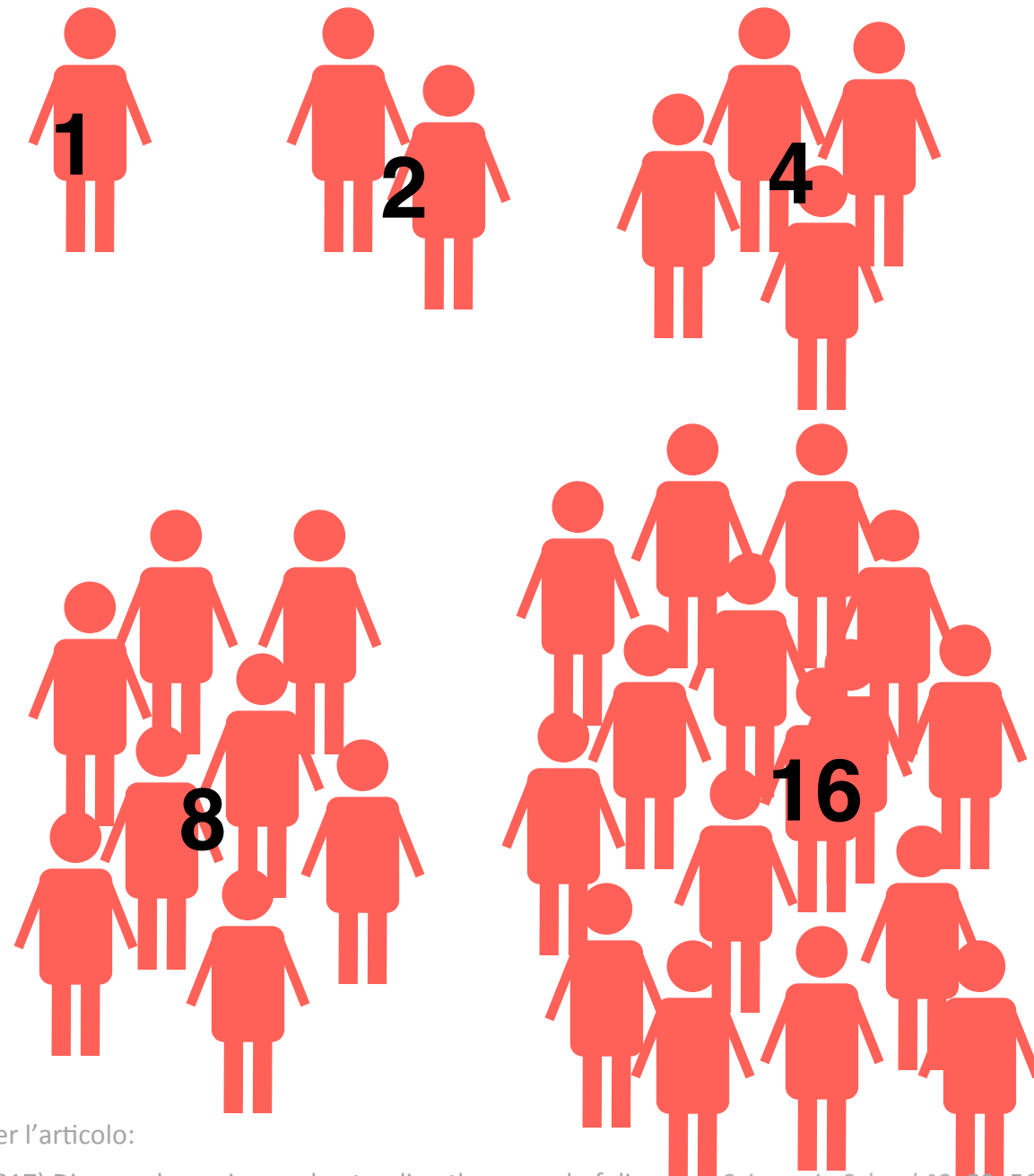
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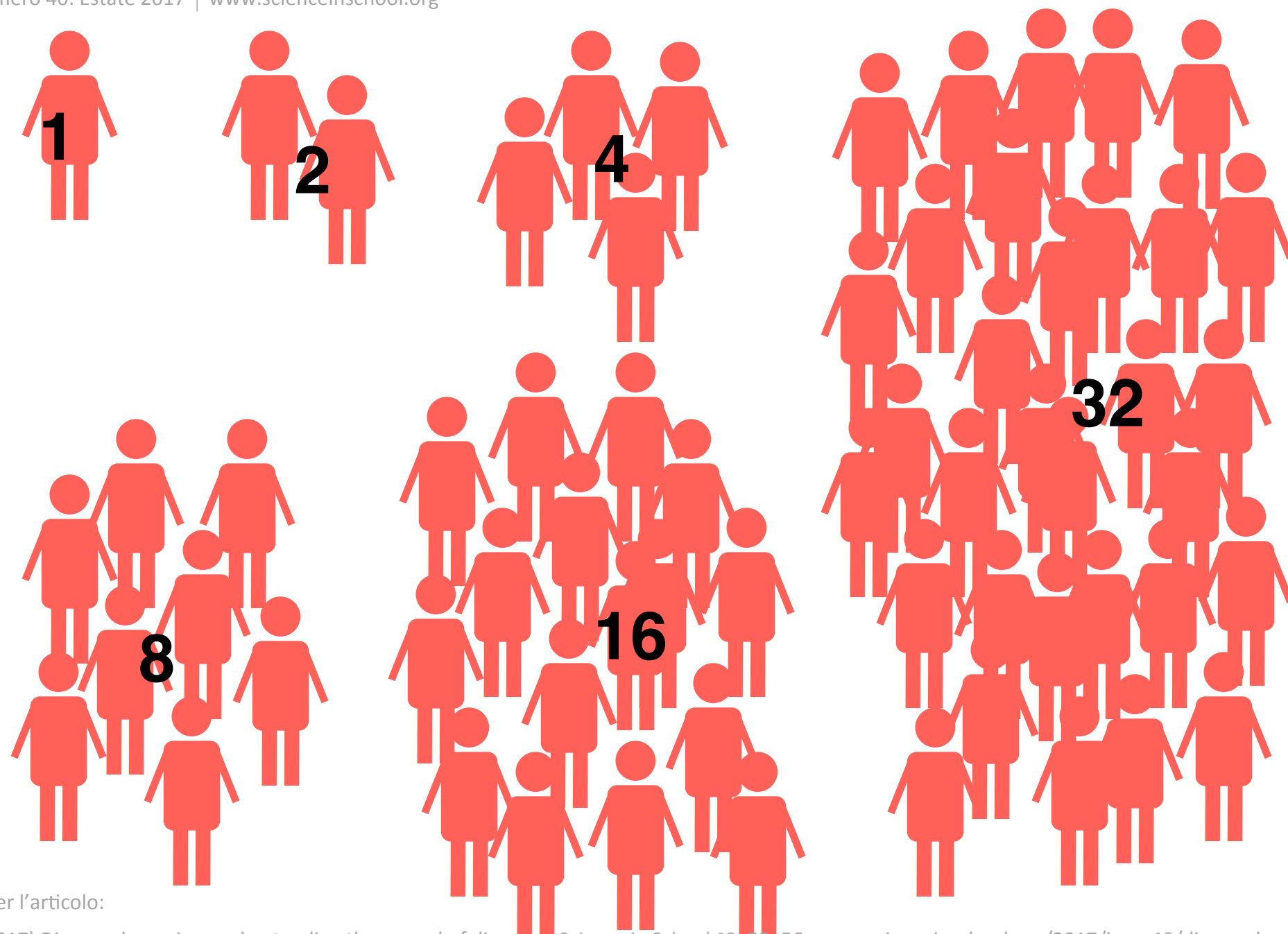
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1	131,072
2	262,144
4	524,288
8	1,048,576
16	2,097,152
32	4,194,304
64	8,388,608
128	16,777,216
256	33,554,432
512	67,108,864
1,024	134,217,728
2,048	268,435,456
4,096	536,870,912
8,192	1,073,741,824
16,384	2,147,483,648
32,768	4,294,967,296
65,536	8,589,934,592

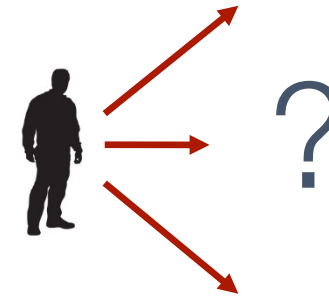


Materiale aggiuntivo per l'articolo:

“Le sopracciglia si inarcarono quando il modello del Centro per il Controllo delle Malattie prevede **77 bilioni di infetti in caso** di mancato controllo dell’epidemia”

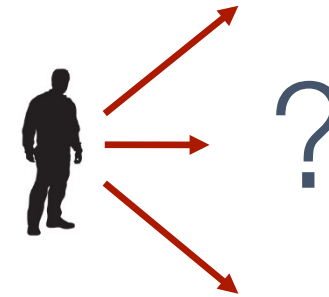
– Ben Cooper, 2006

Il tasso di Riproduzione (R_0)



Definizione : Il numero medio di individui che una persona infetta contagia all'inizio di un'epidemia

Il tasso di Riproduzione (R_0)

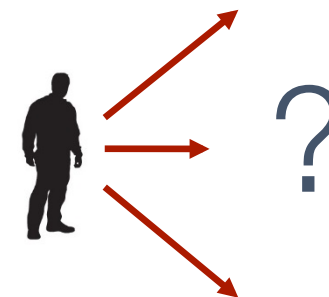


Definizione : Il numero medio di individui che una persona infetta contagia all'inizio di un'epidemia



$$R_0=2$$

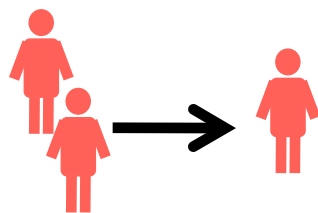
Il tasso di Riproduzione (R_0)



L' R_0 misura quanto velocemente una epidemia si espande...

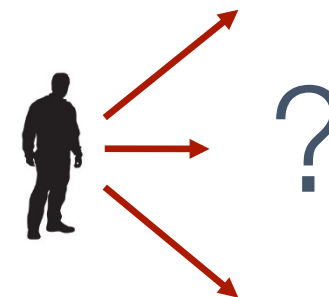
$$R_0 < 1$$

I casi **diminuiscono**
ad ogni passaggio



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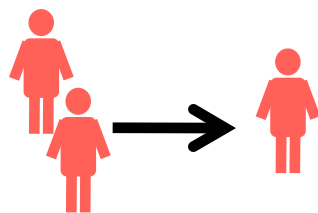
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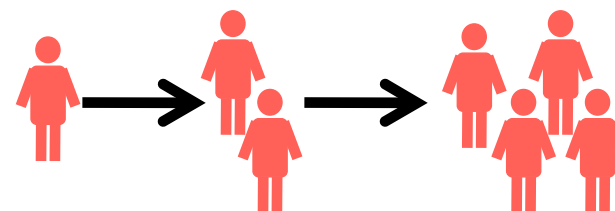
$$R_0 < 1$$

I casi **diminuiscono**
ad ogni passaggio



$$R_0 > 1$$

I casi **aumentano**
ad ogni passaggio



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