En ode til Euler

November 30, 2020

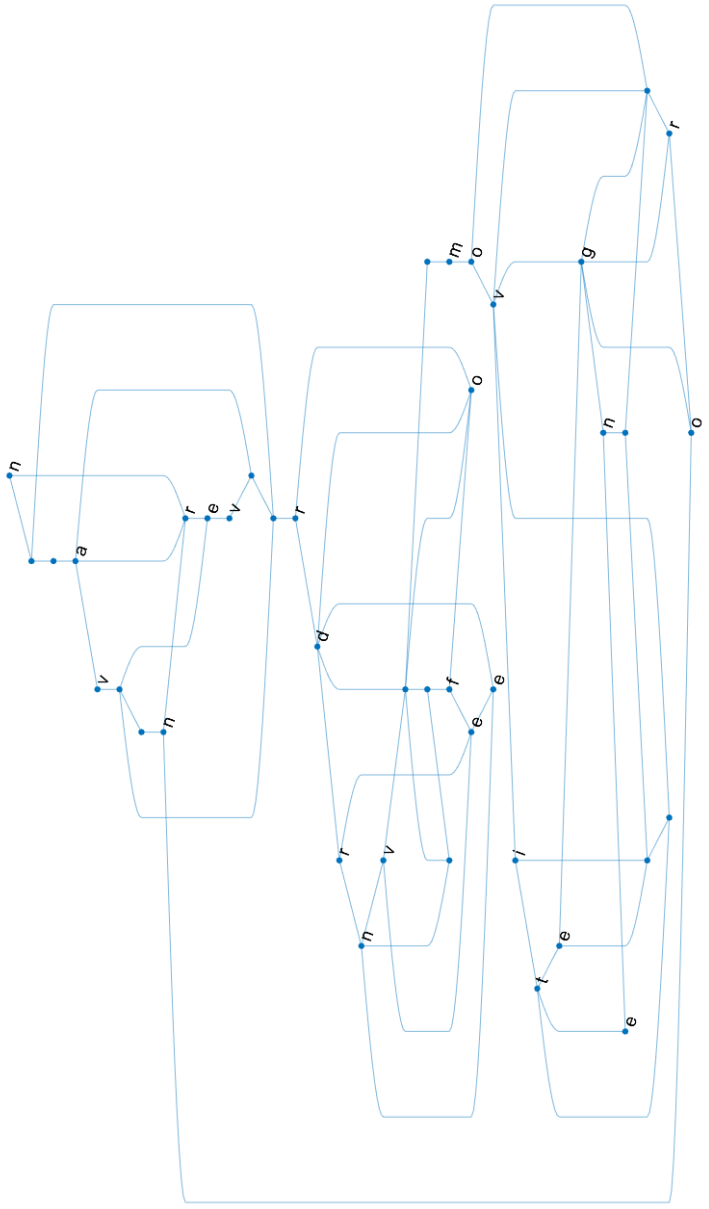
1 Euler

Euler både brukte og introduserte flere sentrale matematiske funksjoner og begreper. (Hint: $''.join([char(a)\ for\ a\ in\ A])$

$$A = \begin{bmatrix} \binom{8}{4} + \binom{5}{1} \\ |45 + 108i| \\ cos(\frac{\pi}{3})\binom{12}{3} \\ |105 + 36i| + 4E_0(75) \\ 2\ln(e^{58}) \\ \phi(189) + e^{i\pi} \\ E_2(10) - 7cos(\pi) \\ sin(\frac{\pi}{6})\phi(484) + e^{i\pi} \\ E_2(11) + cos(\pi) + i\sin(\pi) \\ sin(\frac{\pi}{6})\phi(303) + sin(\pi/2) \\ cos(\frac{\pi}{3})\phi(458) \end{bmatrix}$$

2 Sykler

Euler fant ingen, men William Rowan hadde ingen problemer med å finne en.



3 Finn n

Filen h implementerer funksjonen h.
a) $h(n) = 8, 8$

b) $h(n) = 217772874500023635365563422386019273512381236824318290514$
$357322123165713825792, 636647330747919895136525940302294632068470331$
$232708261863503953920000000000000$

c) $h(n) = 900000000000000000000000000000000000000000000000000000000000$
$0, 375632611784849370603434577721393414554738015092141541120 0$

d) $h(n) = 200000000000001220000000000000120, 99999922911895859181617$
256996352 (hint: $n = p \cdot q$)