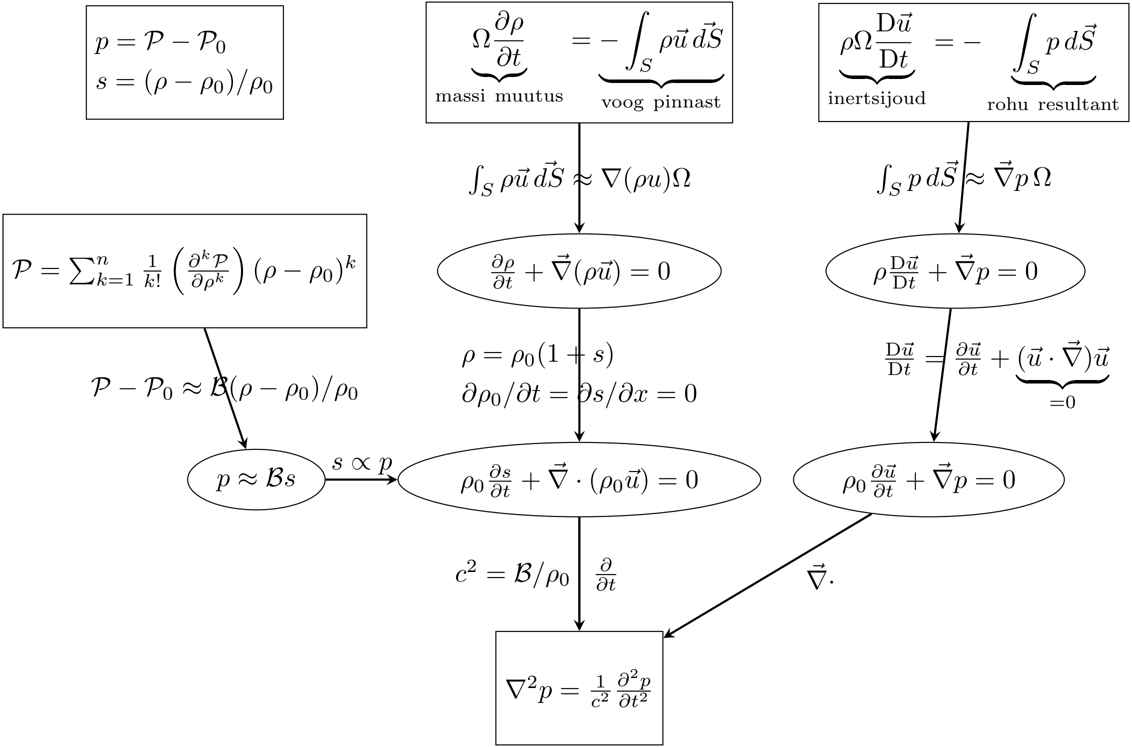
$p = \mathcal{P} - \mathcal{P}_0$
$s = (\rho - \rho_0)/\rho_0$
$\underbrace{\Omega \frac{\partial \rho}{\partial t}}_{\text{massi muutus}} = -\underbrace{\int_S \rho \vec{u}\, d\vec{S}}_{\text{voog pinnast}}$
$\underbrace{\rho \Omega \frac{\mathrm{D}\vec{u}}{\mathrm{D}t}}_{\text{inertsijoud}} = -\underbrace{\int_S p\, d\vec{S}}_{\text{rohu resultant}}$
$\int_S \rho \vec{u}\, d\vec{S} \approx \nabla(\rho u)\Omega$
$\int_S p\, d\vec{S} \approx \vec{\nabla} p\, \Omega$
$\mathcal{P} = \sum_{k=1}^{n} \frac{1}{k!} \left(\frac{\partial^k \mathcal{P}}{\partial \rho^k}\right) (\rho - \rho_0)^k$
$\frac{\partial \rho}{\partial t} + \vec{\nabla}(\rho \vec{u}) = 0$
$\rho \frac{\mathrm{D}\vec{u}}{\mathrm{D}t} + \vec{\nabla} p = 0$
$\rho = \rho_0(1 + s)$
$\partial \rho_0/\partial t = \partial s/\partial x = 0$
$\frac{\mathrm{D}\vec{u}}{\mathrm{D}t} = \frac{\partial \vec{u}}{\partial t} + \underbrace{(\vec{u} \cdot \vec{\nabla})\vec{u}}_{=0}$
$\mathcal{P} - \mathcal{P}_0 \approx \mathcal{B}(\rho - \rho_0)/\rho_0$
$p \approx \mathcal{B} s$
$s \propto p$
$\rho_0 \frac{\partial s}{\partial t} + \vec{\nabla} \cdot (\rho_0 \vec{u}) = 0$
$\rho_0 \frac{\partial \vec{u}}{\partial t} + \vec{\nabla} p = 0$
$c^2 = \mathcal{B}/\rho_0$
$\frac{\partial}{\partial t}$
$\vec{\nabla} \cdot$
$\nabla^2 p = \frac{1}{c^2} \frac{\partial^2 p}{\partial t^2}$