Dynamics			
	Newtonian 1687	Lagrangian 1788	Hamiltonian 1833
	$ec{F}$	$L = K - \Pi$	$H = K + \Pi$
Description	$x_t\left(y_t, z_t\right)$	$q_t$	$q_t, p_t$
State	$ \xi\rangle = (x, v)$	$ \xi\rangle=(q,\nu)$	$ \xi\rangle=(q,p)$
Driver	Force and inertia	Stationary Action Principle	Conservation of energy
Equation	Newton's second law $mec{a}=ec{F}$	Euler-Lagrange Equations $\pi = \partial_{ u}  L  \partial_t  \pi = \partial_q  L$	$J\partial_t \xi = \partial_\xi H$
Visualization			
	Trajectory in space	Path in configuration space	Trajectory in phase space