Joel Gustafson

joelg@mit.edu | joelgustafson.com

MOTIVATION	I want to make computing universally accessible as a medium and an art. I believe in direct manipulation of data, augmenting human intellect, and dynamic, interactive documents, unlike this one.				
EDUCATION	Massachusetts Institute of Technology				2014-
	Class of 2018 Math with Computer Science				
	Coursework in algebra, algorithms, complexity, compilers, cryptography, artificial intelligence, symbolic programming, fabrication, and magic				
EXPERIENCE	MIT Media Lab				2015
	Designed and implemented a novel network architecture for an open academic publishing platform to track attribution and trace diffusion of ideas				
	MIT Computer Science and Artificial Intelligence Lab Worked with Professors Gerry Sussman and Jack Wisdom to build a Scheme programming environment in the browser for a computational physics class				
SKILLS	Languages	Software	Interests	Heroes	Fun
	TypeScript	React, Polymer	AI, PLT	Alan Kay	Tennis
	Scheme	D ₃ , Three.js	UI, HCI	Ted Nelson	Nature
	Python	Node, Webpack	VR, AR	Ivan Sutherland	Debate
	Rust, C	IPFS, Ethereum	FHE, SMC	Doug Engelbart	Card games
	Java, Scala	Emacs, Unix, Git	Acronyms	Bret Victor	Magic
PROJECTS	GRASP: a 3D graphical dataflow visualization for Lisp Visual History: a chrome extension that delinearizes the browser's back & forward stack by				
	visualizing walks on the internet graph as trees of history nodes				

MIT Scheme Kernel: the MIT Scheme kernel for Jupyter notebooks

Prototypical: a decentralized hierarchical note-taking application built on IPFS

Brainfreeze: a fully homomorphic compiler and runtime for the Brainfuck language