Analyze, visualize, and ... itemize: Tax policy analysis with Tax-Cruncher

September 23, 2019 Peter Metz

Agenda

- 1. Policy Simulation Library (PSL)
- 2. What is Tax-Cruncher?
- 3. Web application demo
- 4. Python API overview
- 5. Getting started

Policy Simulation Library

- Open source ecosystem
- Policy modeling community

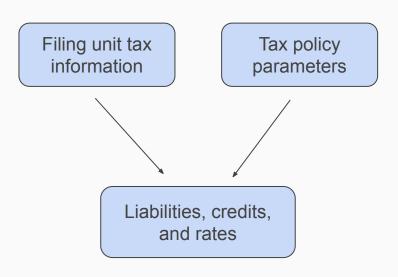




Geena Kim, CBO economist, presenting HISIM2

Tax-Cruncher

- Open source software for analyzing how tax policy affects household finances
- Calculates individual income and payroll tax liabilities for any year between 2013 and 2028
- Design your own tax reform using over two hundred parametrized features of the US tax code



Tax-Cruncher Interfaces

- Web application
 - No programming knowledge necessary
 - Generate tables and interactive charts
- Python API
 - Broader capabilities
 - Greater flexibility

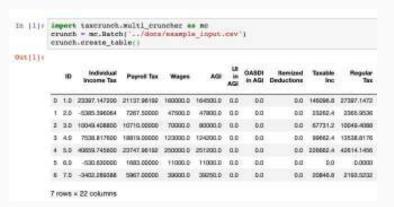
Web application demo

https://compute.studio/PSLmodels/Tax-Cruncher/

Python API Overview

- Analyze multiple households at a time
- Create custom output
- Compare two reforms

https://github.com/PSLmodels/Tax-Cruncher



	Single		Married			
Income	0 Kids	1 Kid	0 Kids	1 Kid	2 Kids	3 Kids
\$10k	\$0	\$0	\$0	-\$125	-\$75	-575
\$20k	-\$167	-\$167	\$0	-\$600	-\$625	-\$75
540k	-\$685	-\$685	-\$334	-\$844	-\$1,354	-\$1,813
560k	-\$1,434	-\$1,434	-\$770	-\$1,035	-\$1,299	-\$1,686
\$100k	-\$2,656	-\$2,656	-\$1,970	-\$2,235	-\$2,499	-\$2,764
5200k	-\$6,188	-\$6,188	-\$5,313	-56,088	-\$6,863	-57,638
5500N	\$374	\$374	-\$20,828	-\$20,825	-\$20.625	-521,625

Getting Started

Open source ecosystem

- Open Source Policy Center
- Policy Simulation Library





Tax-Cruncher

- <u>GitHub</u>
- <u>Compute Studio</u> (web application)



