GitHub Programming Language Evolution and Contributor Dynamics
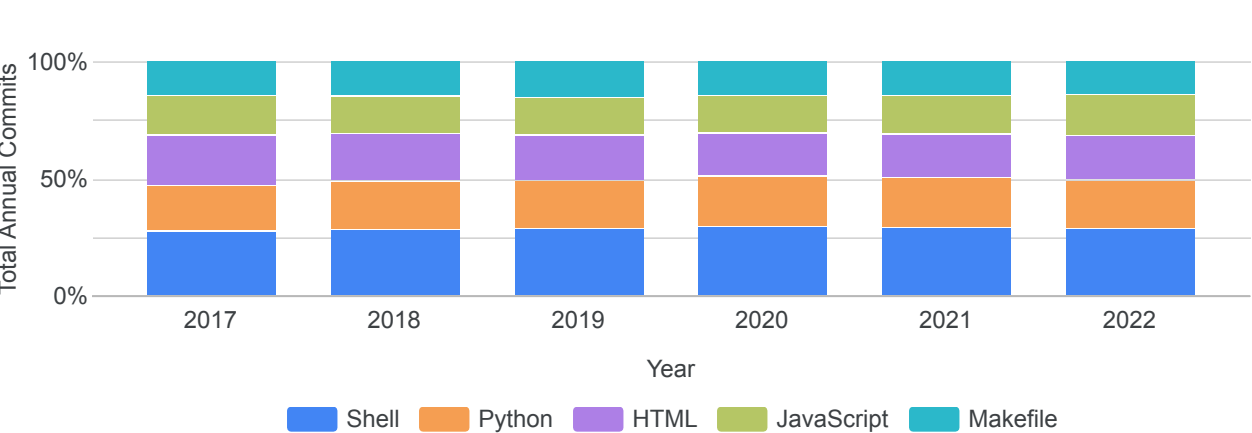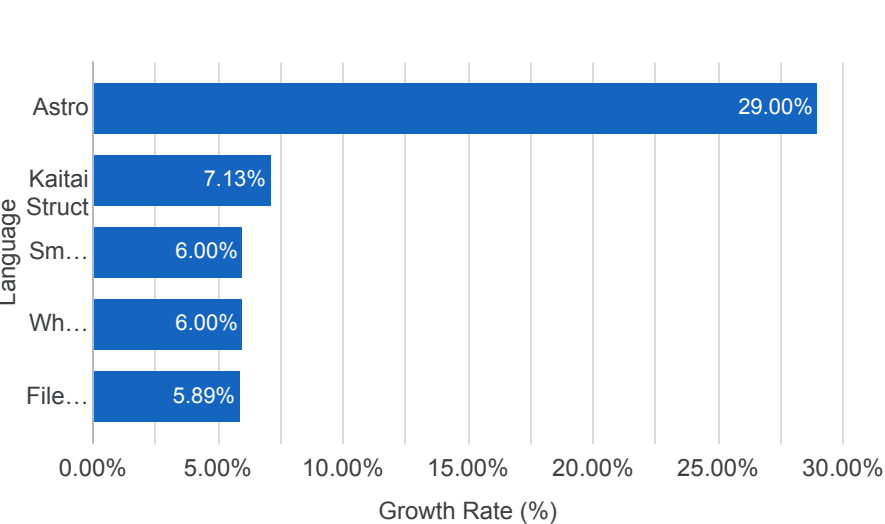## 2017–2022
Jenn Kang

Top 5 Languages per Year by Total Commits
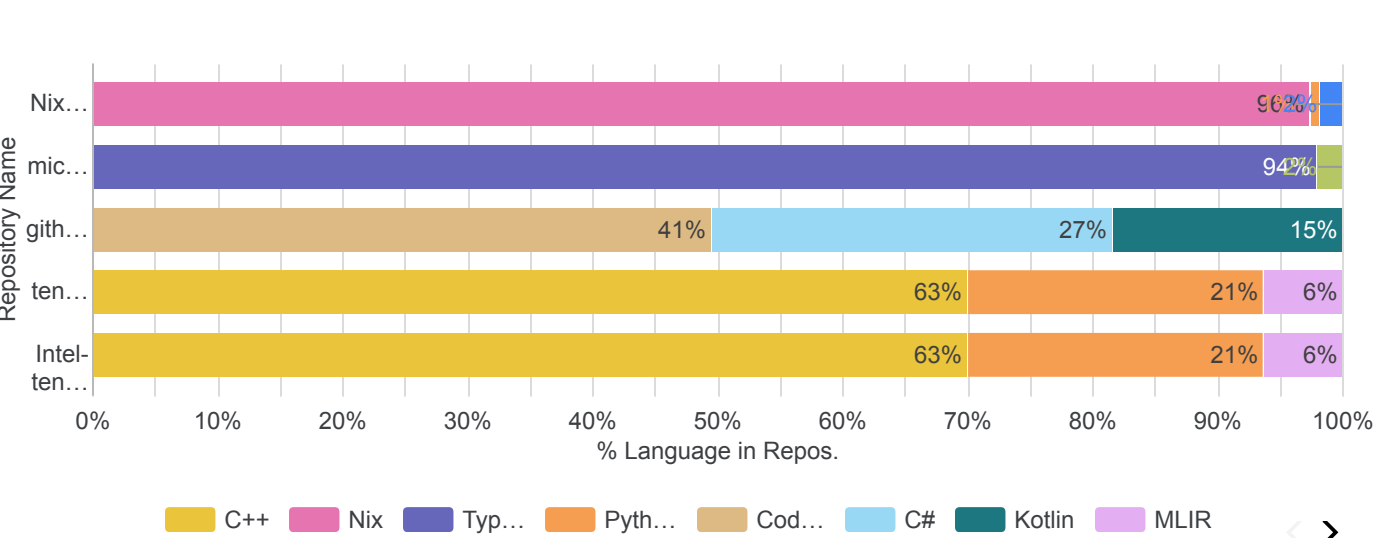

Total Annual Commits — Year (2017, 2018, 2019, 2020, 2021, 2022)

Legend: Shell, Python, HTML, JavaScript, Makefile

Top 5 Growing Languages (2017-2022)

Language	Growth Rate (%)
Astro	29.00%
Kaitai Struct	7.13%
Sm…	6.00%
Wh…	6.00%
File…	5.89%

Correlation between Languages (2017-2022)

Language / Shared Repos. Count

Language	Shell	JavaSc…	HTML	Python	PHP	C++	Ruby	Makefile
CSS	39.3k	119.7k	123.3k	25.1k	25.7k	-	-	-
HTML	50.3k	127.7k	-	34.6k	-	-	31.2k	-
JavaScript	46.3k	-	-	27.2k	26.3k	-	-	-
C	29.9k	-	-	-	-	33.4k	-	29.3k
Makefile	39.6k	-	-	29.6k	-	-	-	-
Python	53.6k	-	-	-	-	-	-	-
C++	25.6k	-	-	-	-	-	-	-

Top 3 Languages Used in the Top 5 Repositories in 2022

Repository Name	% Language in Repos.
Nix…	96% / 2%
mic…	94% / 2%
gith…	41% / 27% / 15%
ten…	63% / 21% / 6%
Intel-ten…	63% / 21% / 6%

Legend: C++, Nix, Typ…, Pyth…, Cod…, C#, Kotlin, MLIR

Engagement of Users by Total Commits (2017-2022)

Legend: Occasional, Medium, Heavy, Light

- Occasional: 34.6%
- Medium: 24.9%
- Heavy: 24.5%
- Light: 16%

Category Cutoffs (total commits):
Occasional: 0-2 commits
Light: 3-5 commits
Medium: 6-25 commits
Heavy: 26+ commits