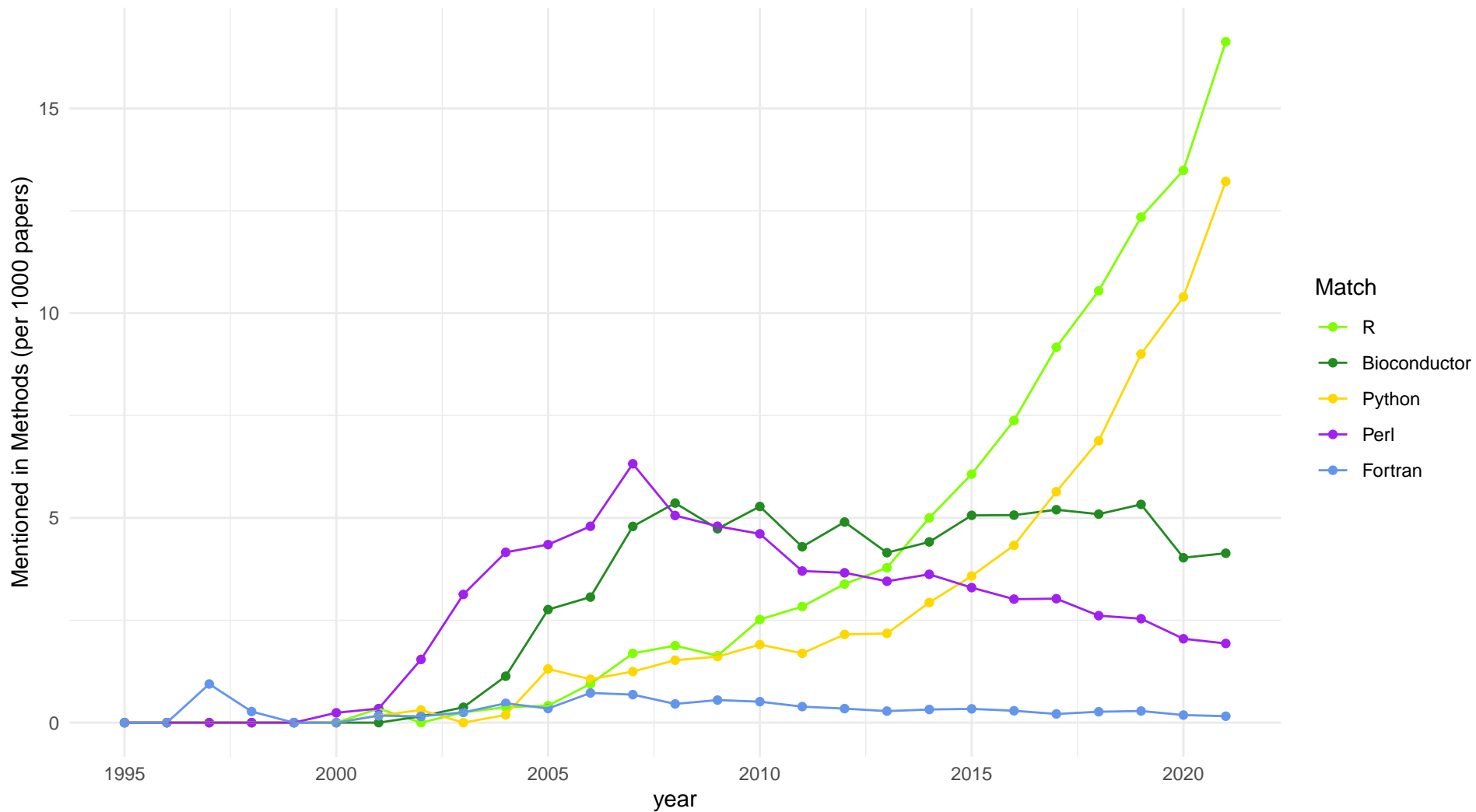


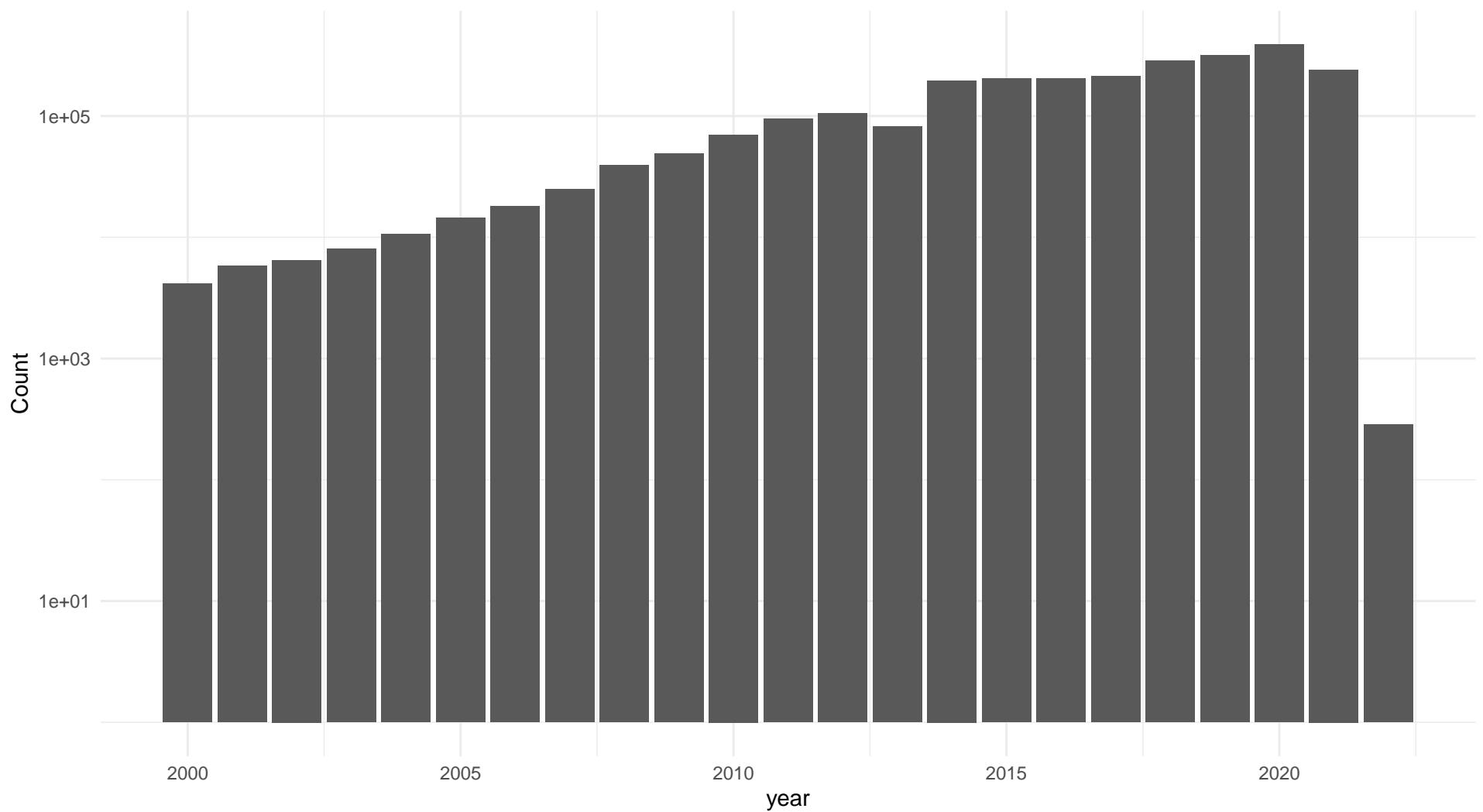
Language usage in Methods sections (1995 – 2021)

Articles parsed: 3,053,244



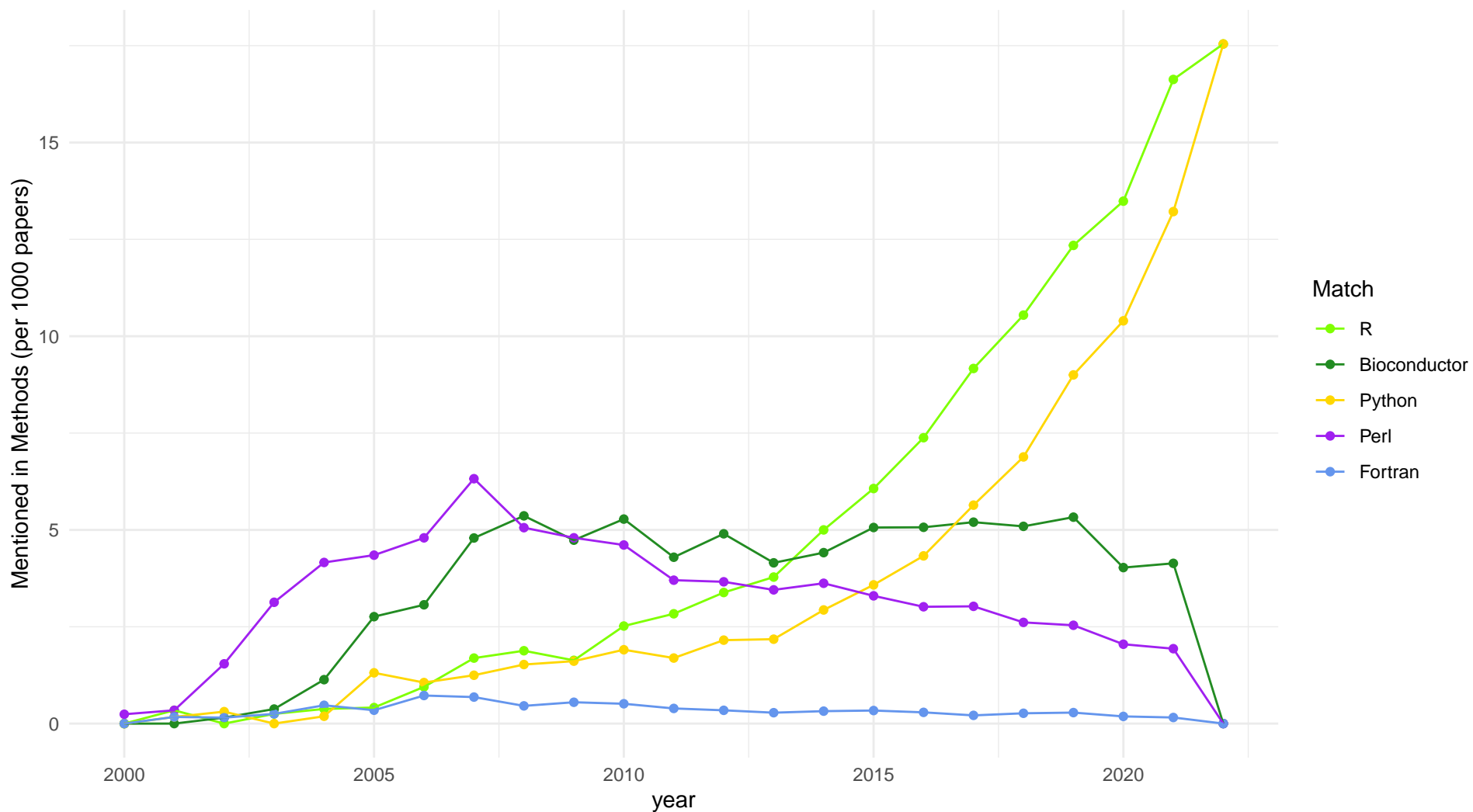
Papers with methods succesfully extracted

Articles parsed: 3,053,244



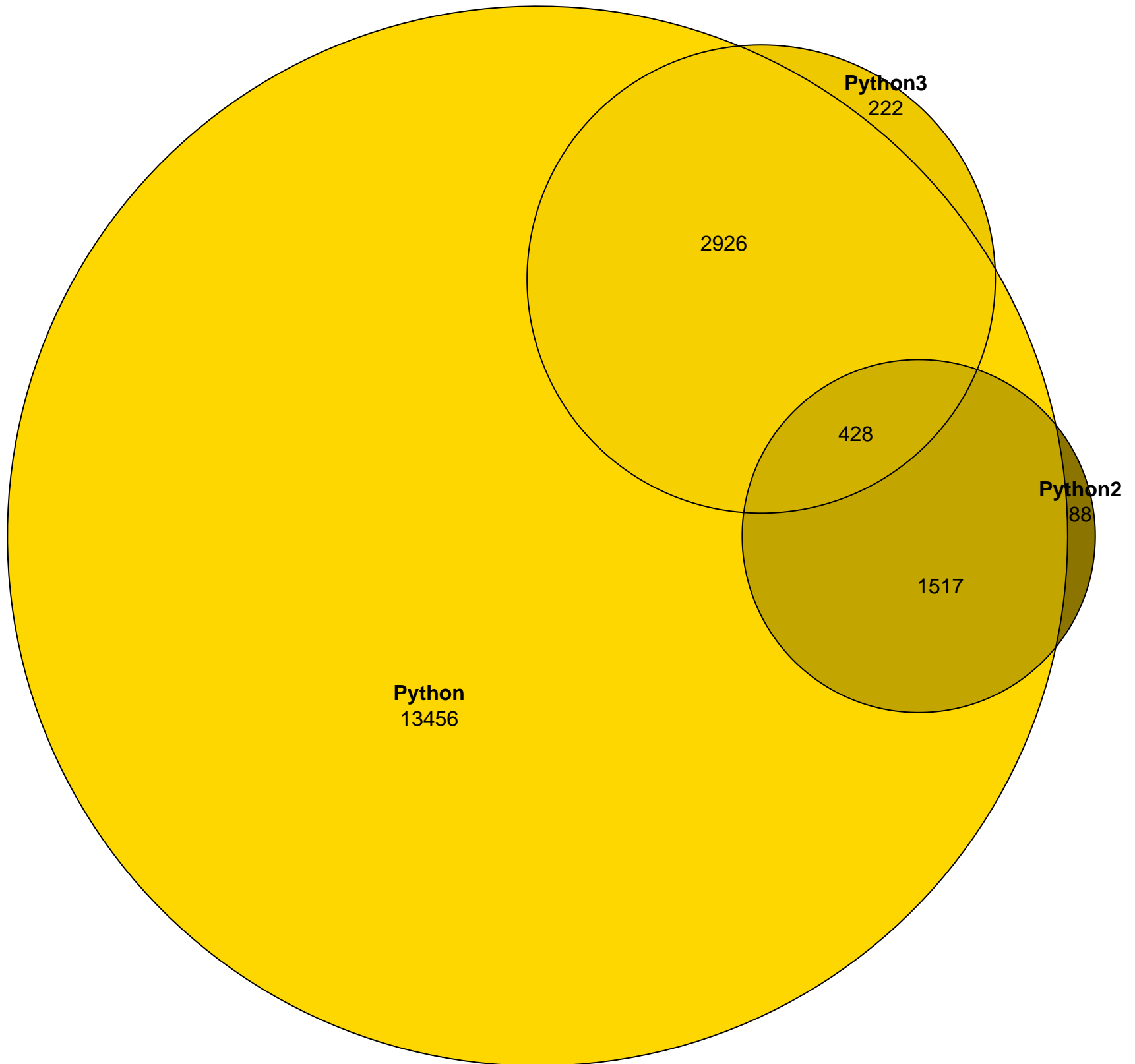
Language usage in Methods sections (2000 – 2022)

Articles parsed: 3,053,244

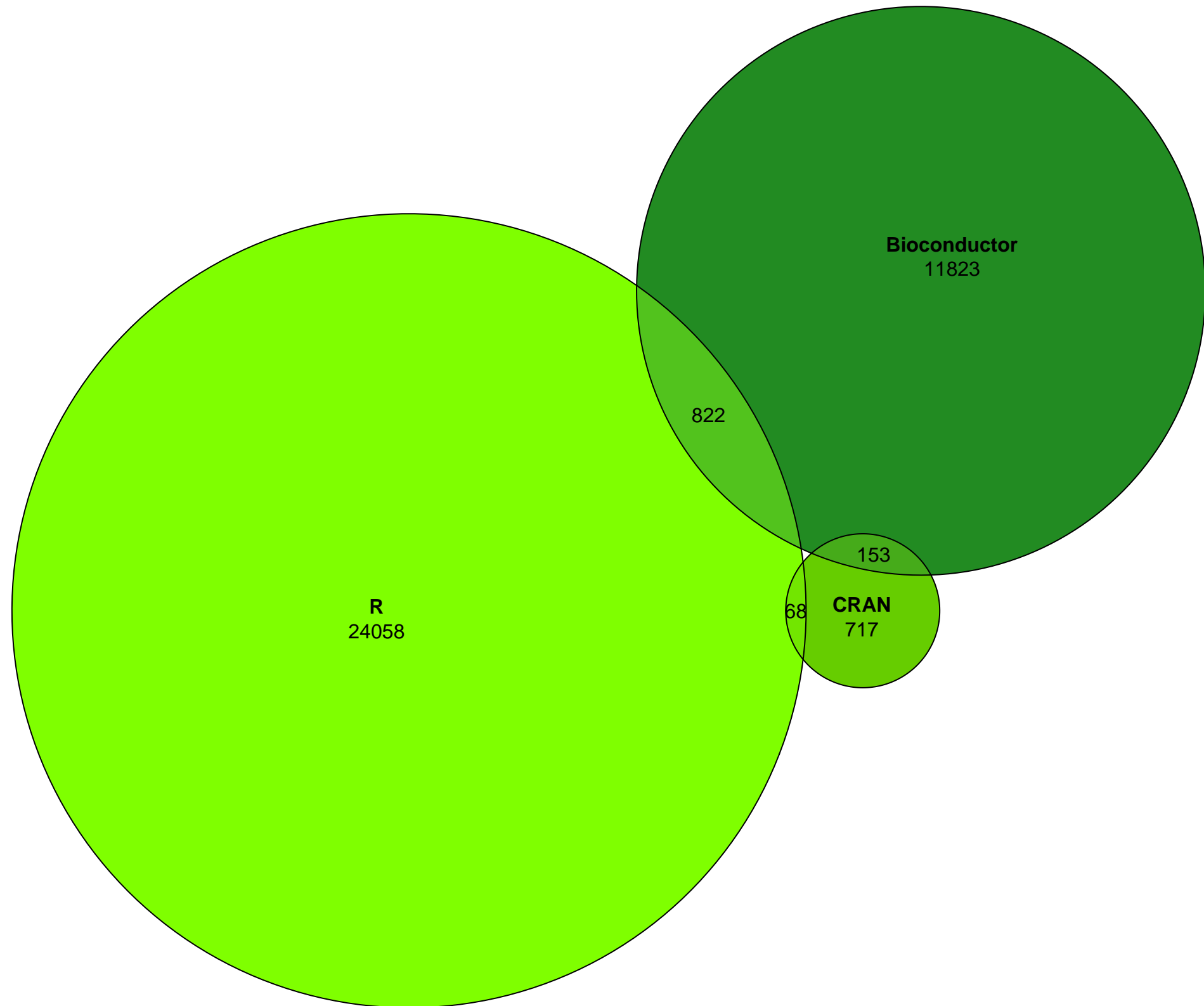


'Python' seems to be most inclusive among the regexes

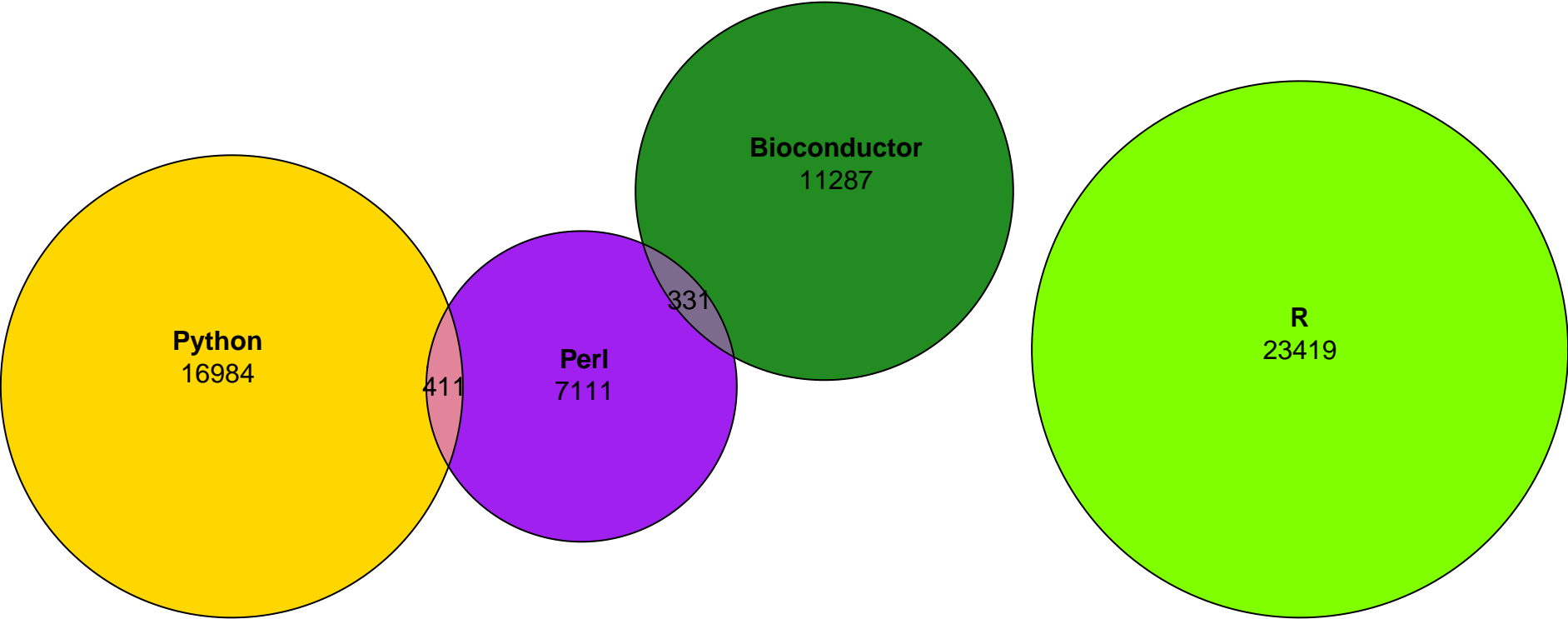
Euler Diagram



'Bioconductor' is often cited without R
Euler Diagram

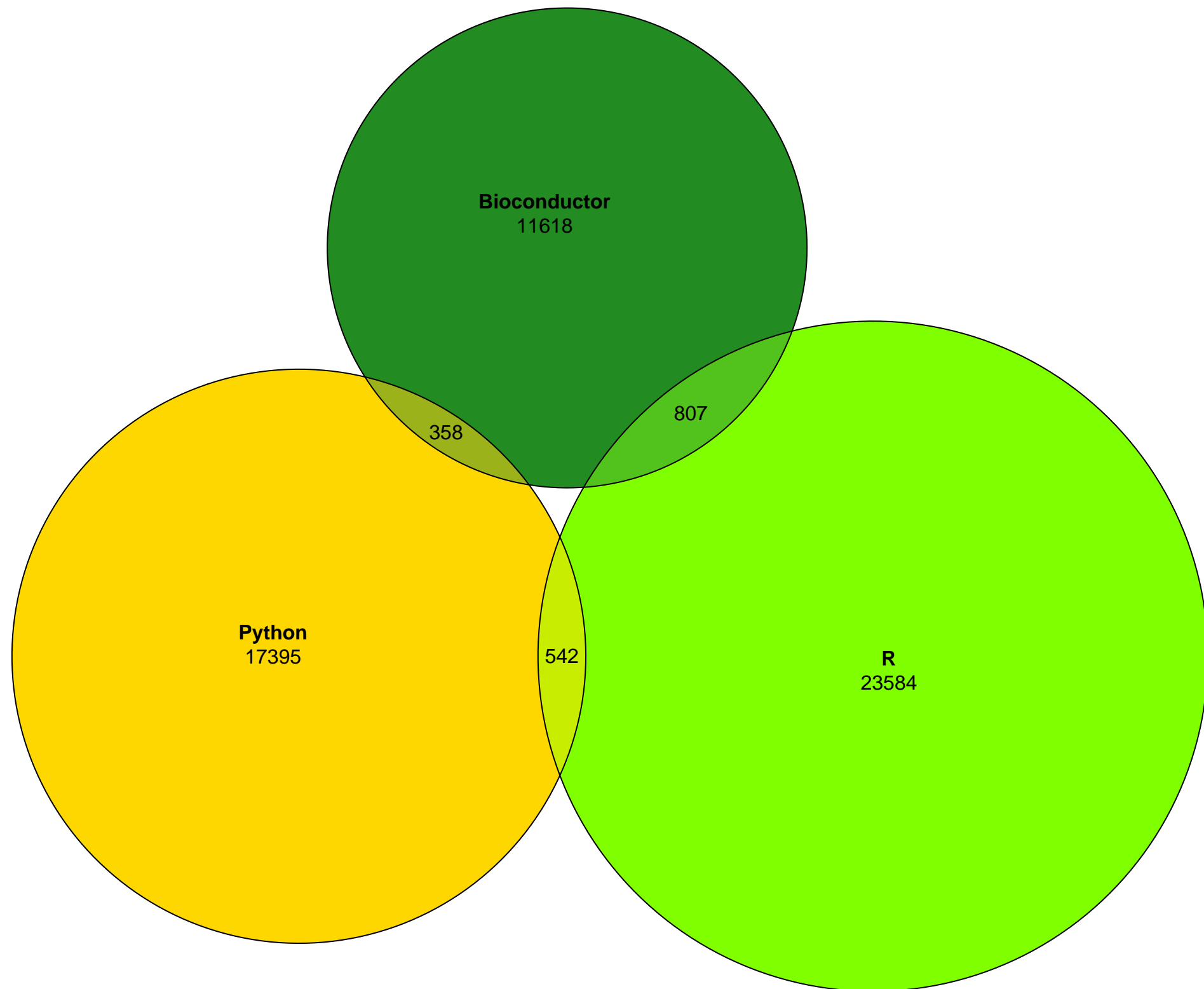


Languages have limited overlaps in Methods
Euler Diagram



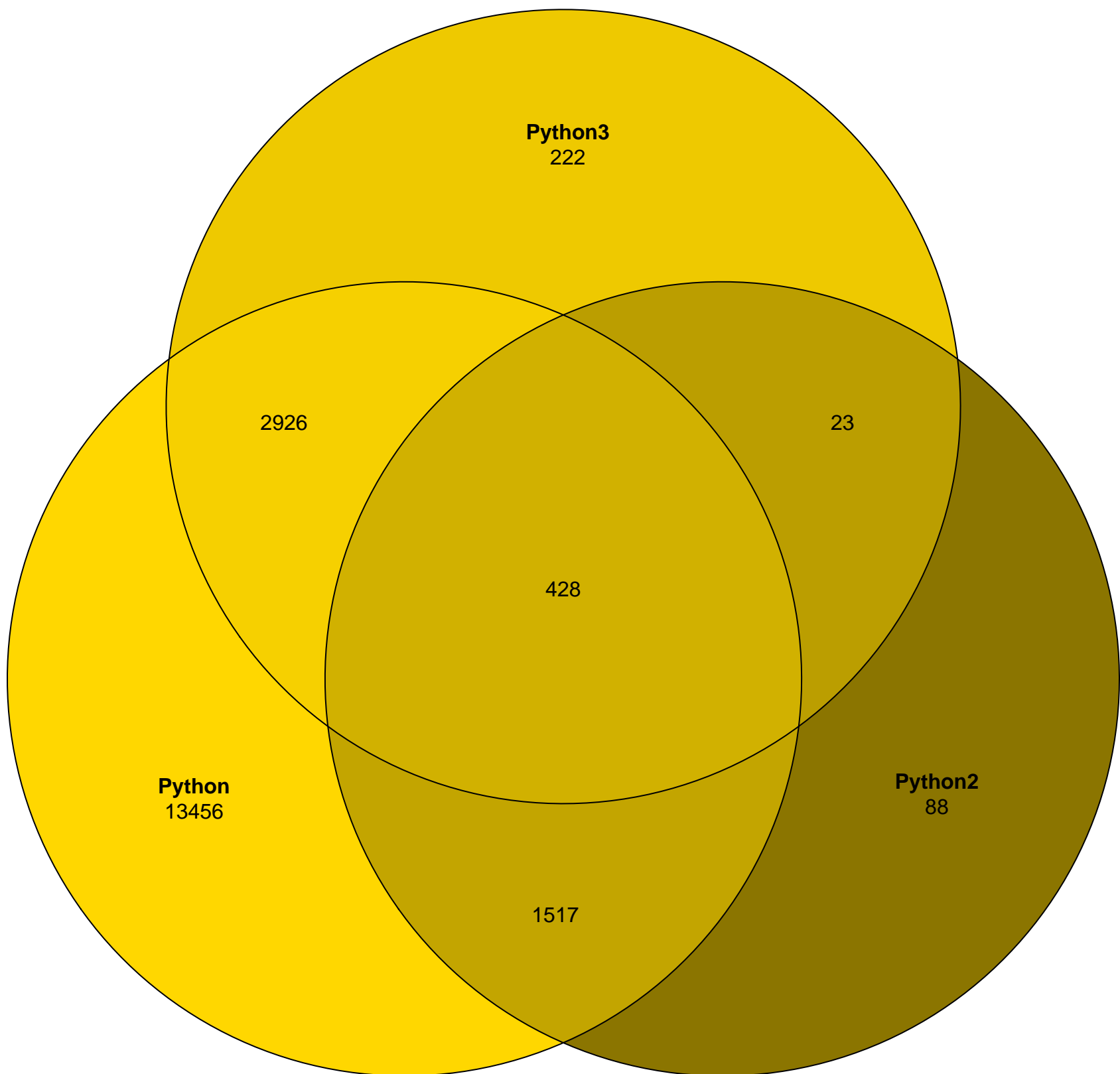
Languages have limited overlaps in Methods (R/Python only)

Euler Diagram

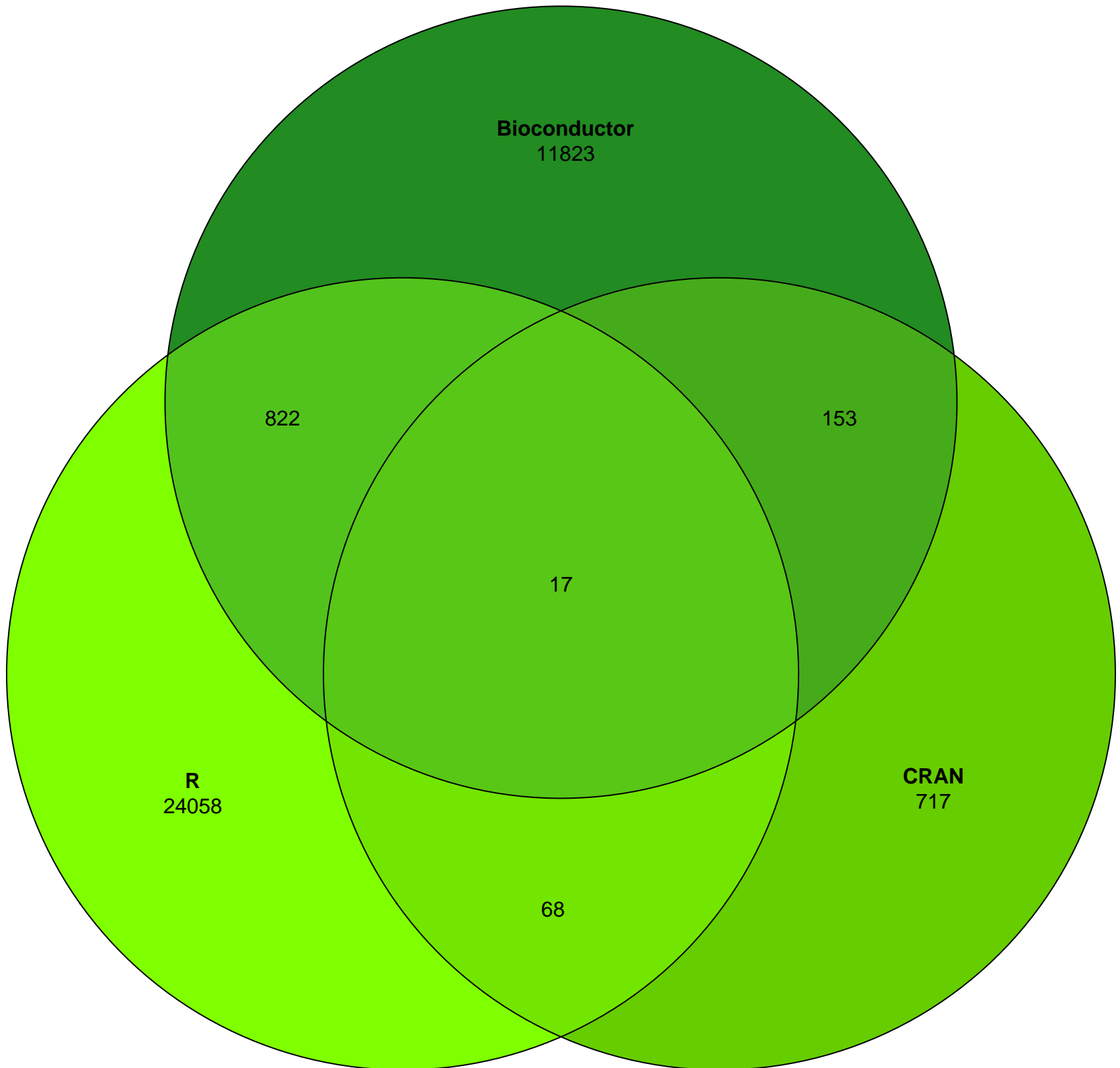


'Python' seems to be most inclusive among the regexes

Venn Diagram

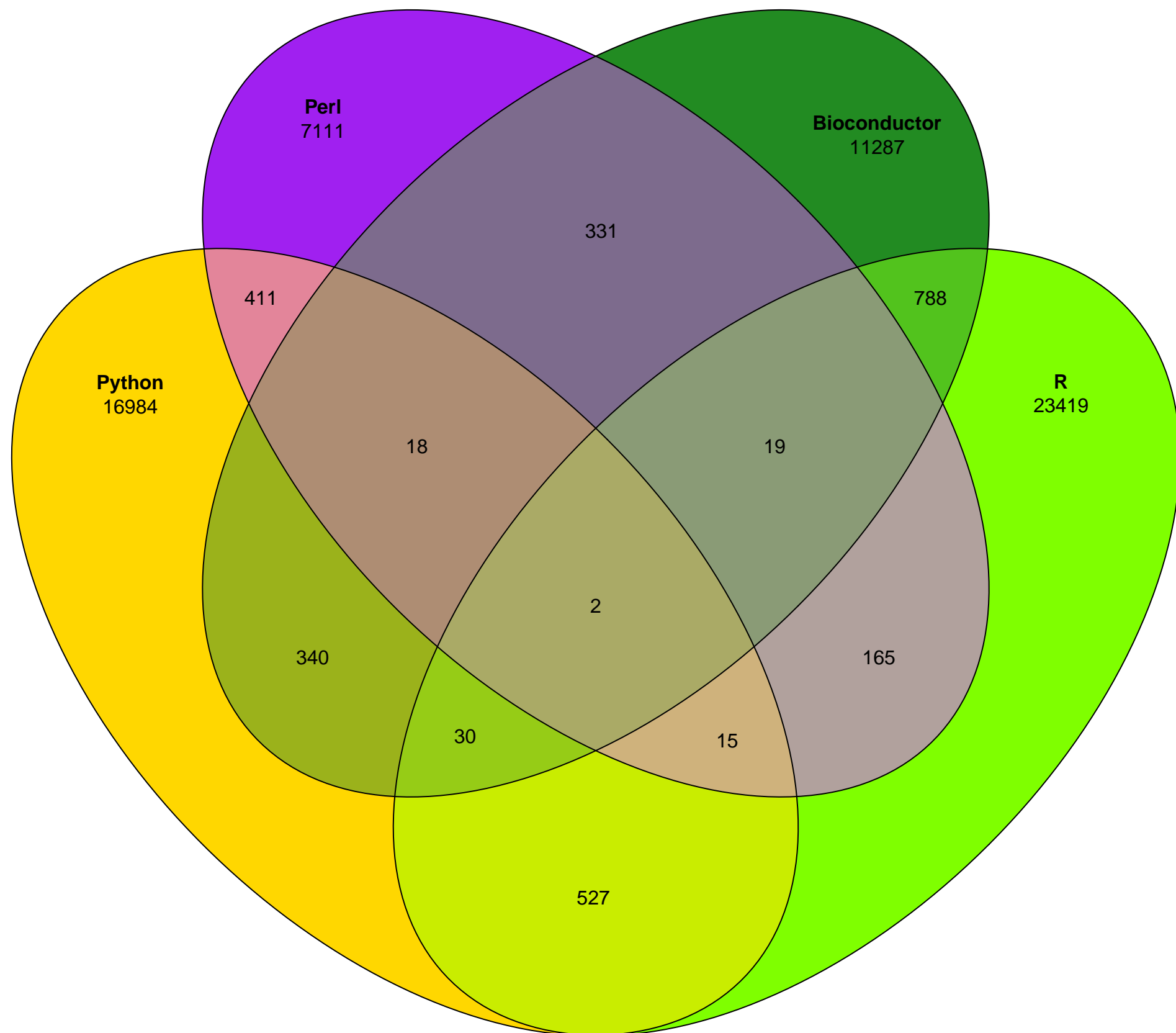


'Bioconductor' is often cited without R
Venn Diagram



Languages have limited overlaps in Methods

Venn Diagram



Languages have limited overlaps in Methods (R/Python only)
Venn Diagram



Selected Combinations
(Max 5 shown)

Match_Type	PMCID
2022 Pubs	PMC8502102
	PMC8457901
	PMC8520178
	PMC8413076
	PMC8445775
R + Python + Perl	PMC6805339
	PMC6636046
	PMC5400389
	PMC6357080
	PMC6297158
CRAN only	PMC6461986
	PMC3433369
	PMC3048856
	PMC7487786
	PMC4332506
Python 3 only	PMC6137174
	PMC7214040
	PMC7520038
	PMC8140435
	PMC7904826

All Combinations (Max 5 shown)		
MatchType	PMCID	year
R + CRAN + Python + Python2 + Python3	PMC8240513	2021
	PMC7706344	2020
R + Python + Python2 + Python3 + Perl	PMC5452262	2017
R + CRAN + Bioconductor + Perl	PMC4353683	2015
R + CRAN + Python + Python3	PMC7079214	2020
R + Bioconductor + Python + Python2	PMC7378823	2020
	PMC4964289	2016
	PMC7554720	2020
	PMC5035344	2016
R + Bioconductor + Python + Python3	PMC7291078	
	PMC7301280	2020
	PMC7409785	2020
	PMC6464060	2019
	PMC5100585	2016
R + Bioconductor + Python + Perl	PMC3985652	2014
	PMC6946690	2020
R + Bioconductor + Python2 + Python3	PMC5619806	2017
R + Python + Python2 + Python3	PMC6172273	2018
	PMC6013959	2018
	PMC7438493	2020
	PMC8425561	2021
	PMC4868121	2016
R + Python + Python2 + Perl	PMC6297158	2018
	PMC6805339	2019
	PMC4053716	2013
	PMC2837027	2010
R + Python + Python3 + Perl	PMC5021521	
CRAN + Bioconductor + Python + Python3	PMC7692324	
	PMC7610476	2020
	PMC7892850	2021
CRAN + Bioconductor + Python + Perl	PMC5372878	2017
Bioconductor + Python + Python2 + Python3	PMC7274770	2020
	PMC8147726	2021
	PMC4411297	2015
	PMC6108454	2018
	PMC8159845	2021
Bioconductor + Python + Python2 + Perl	PMC6545764	2019
Python + Python2 + Python3 + Perl	PMC5030719	2016
	PMC6917865	2020
	PMC6838682	2019
	PMC7214623	2020
	PMC3995340	2014
R + CRAN + Bioconductor	PMC8492348	
	PMC3314675	2011
	PMC4258272	2014
	PMC6755255	2019
	PMC4166472	2014
R + CRAN + Perl	PMC3443660	2012
	PMC5225596	2017
R + Bioconductor + Python	PMC6206094	2018
	PMC7906136	
	PMC7272069	2020
	PMC4526524	2015
R + Bioconductor + Perl	PMC3129672	2011
	PMC8168165	2021
	PMC5492891	2017
	PMC2134946	2007
R + Python + Python2	PMC4683516	2015
	PMC7769675	2020
	PMC6227911	2018
	PMC6031307	2018
R + Python + Python3	PMC8277136	2021
	PMC7431539	2020
	PMC6783558	2019
	PMC7226080	
R + Python + Perl	PMC6959997	
	PMC5471945	2017
	PMC7641223	2020
	PMC8191797	2021
R + Python2 + Python3	PMC2367441	2008
	PMC8448325	2021
	PMC6357080	
	PMC6636046	2019
	PMC5851996	2018
CRAN + Bioconductor + Python	PMC7601756	
	PMC3712326	2013
	PMC4856318	2016
	PMC8287940	2021
	PMC7306901	2020
CRAN + Bioconductor + Perl	PMC5319707	2017
	PMC7278070	2020
	PMC5843389	2018
	PMC4702891	2016
	PMC6561741	2019
CRAN + Python + Python2	PMC2528195	2008
	PMC7601214	2020
CRAN + Python + Python3	PMC3986061	2014
	PMC8516856	2021
	PMC6954118	2020
CRAN + Python + Perl	PMC6288061	2018
Bioconductor + Python + Python2	PMC3665859	2013
	PMC6957175	2020
	PMC4370670	2015
	PMC6167374	2018
	PMC6052049	2018
Bioconductor + Python + Python3	PMC4499804	2015
	PMC7595221	2020
	PMC7296165	2020
	PMC5768558	2017
	PMC7824432	
Bioconductor + Python + Perl	PMC8405688	2021
	PMC3618349	
	PMC6242970	2018
	PMC4239341	2014
	PMC4169057	2014
Bioconductor + Python2 + Perl	PMC6988126	2020
	PMC7483575	2020
Python + Python2 + Python3	PMC6471695	2019
	PMC7550801	2020
	PMC6910696	2019
	PMC5964631	2018
	PMC8487852	2021
Python + Python2 + Perl	PMC4253001	2014
	PMC3836783	2013
	PMC6738662	2019
	PMC6925685	2019
	PMC5033229	2015
Python + Python3 + Perl	PMC8243146	2021
	PMC7672285	2020
	PMC7314536	2020
	PMC5315495	2017
	PMC5587817	2017
R + CRAN	PMC3269825	2011
	PMC7540676	2020
	PMC6868532	2019
	PMC7327187	2020
	PMC6013104	2018
R + Bioconductor	PMC3929756	2014
	PMC6521386	2019
	PMC5292791	2017
	PMC6097607	2018
	PMC6062504	2018
R + Python	PMC7217489	2020
	PMC4301190	2015
	PMC6934281	2019
	PMC8400760	2021
	PMC5174745	2016
R + Python2	PMC5797336	2018
	PMC6346682	2019
	PMC6166140	2018
R + Python3	PMC7706345	2020
	PMC7230257	
	PMC7329470	2020
R + Perl	PMC7692107	2020
	PMC7390977	2020
	PMC4562498	2015
	PMC4077804	2014
	PMC7948356	2021
CRAN + Bioconductor	PMC7217449	2020
	PMC4310621	2014
	PMC2688022	2009
	PMC5216782	2016
	PMC6556032	2019
CRAN + Python	PMC6952972	2019
	PMC6407787	2019
	PMC4840215	2016
	PMC3818805	2013
	PMC7782085	2021
CRAN + Perl	PMC7216315	
	PMC6232113	2018
	PMC4226900	2014
	PMC7541242	2020
	PMC6234637	2018
Bioconductor + Python	PMC4552594	2015
	PMC8406225	
	PMC4061062	2014
	PMC3040525	2010
	PMC6627511	
Bioconductor + Python2	PMC6668012	2019
	PMC6671984	2019
	PMC8445602	2021
	PMC68819482	2019
	PMC4376666	2015
Bioconductor + Python3	PMC6836459	2019
	PMC7242366	2020
	PMC6559950	2019
	PMC3616706	2013
Bioconductor + Perl	PMC5704226	
	PMC6795397	
	PMC2847969	2010
	PMC2930629	2010
	PMC4144119	2014
Python + Python2	PMC7575569	2020
	PMC3847542	2013
	PMC6874130	2019
	PMC5289935	2017
	PMC3896843	2013
Python + Python3	PMC8166700	2021
	PMC6848207	2019
	PMC6620389	2019
	PMC8023143	2020
	PMC6373907	2019
Python + Perl	PMC7703965	2020
	PMC5974277	2018
	PMC7566560	2020
	PMC4098781	2014
	PMC6466055	2019
Python2 + Python3	PMC6928157	2019
	PMC7381897	2020
	PMC7574234	2020
	PMC72719324	
	PMC7532803	
Python3 + Perl	PMC5865298	2018
	PMC6286384	2018
	PMC6961209	2020
R	PMC6681202	
	PMC8164455	2020
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Bioconductor	PMC5080576	2016
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Perl	PMC7338375	2020
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