CPython -> CircuitPython

~29 megabytes -> ~650 kilobytes

CPython builtins

__build_class__	breakpoint	enumerate	id	next	setattr
__debug__	bytearray	eval	input	object	slice
__doc__	bytes	exec	int	oct	sorted
__import__	callable	exit	isinstance	open	staticmethod
__loader__	chr	filter	issubclass	ord	str
__name__	classmethod	float	iter	pow	sum
__package__	compile	format	len	print	super
__spec__	complex	frozenset	license	property	tuple
abs	copyright	getattr	list	quit	type
all	credits	globals	locals	range	vars
any	delattr	hasattr	map	repr	zip
ascii	dict	hash	max	reversed	
bin	dir	help	memoryview	round	
bool	divmod	hex	min	set	

CircuitPython builtins

__build_class__		enumerate	id	next	setattr
	bytearray	eval	input	object	slice
	bytes	exec	int	oct	sorted
__import__	callable		isinstance	open	staticmethod
	chr	filter	issubclass	ord	str
__name__	classmethod	float	iter	pow	sum
			len	print	super
	complex	frozenset		property	tuple
abs		getattr	list		type
all		globals	locals	range	
any	delattr	hasattr	map	repr	zip
	dict	hash	max	reversed	
bin	dir	help	memoryview	round	
bool	divmod	hex	min	set	

CPython Modules

abc	cmath	dis	gettext	lists	pathlib	pydoc_data	smtplib	telnetlib	uu
aifc	cmd	distutils	glob	locale	pdb	pyexpat	sndhdr	tempfile	uuid
antigravity	code	doctest	graphlib	logging	pickle	queue	socket	termios	venv
argparse	codecs	easy_install	grp	lzma	pickletools	quopri	socketserver	test	warnings
array	codeop	email	gzip	mailbox	pip	random	sqlite3	textwrap	wave
ast	collections	encodings	hashlib	mailcap	pipes	re	sre_compile	this	weakref
asynchat	colorsys	ensurepip	heapq	marshal	pkg_resources	readline	sre_constants	threading	webbrowser
asyncio	compileall	enum	hmac	math	pkgutil	reprlib	sre_parse	time	wheel
asyncore	concurrent	errno	html	mimetypes	platform	resource	ssl	timeit	wsgiref
atexit	configparser	faulthandler	http	mmap	plistlib	rlcompleter	stat	tkinter	xdrlib
audioop	contextlib	fcntl	idlelib	modulefinder	poplib	runpy	statistics	token	xml
base64	contextvars	filecmp	imaplib	multiprocessing	posix	sched	string	tokenize	xmlrpc
bdb	copy	fileinput	imghdr	netrc	posixpath	secrets	stringprep	trace	xxlimited
binascii	copyreg	fnmatch	imp	nis	pprint	select	struct	traceback	xxsubtype
binhex	crypt	fontforge	importlib	nntplib	profile	selectors	subprocess	tracemalloc	zipapp
bisect	csv	formatter	inspect	ntpath	psMat	setuptools	sunau	tty	zipfile
builtins	ctypes	fractions	io	nturl2path	pstats	shelve	symbol	turtle	zipimport
bz2	curses	ftplib	ipaddress	numbers	pty	shlex	symtable	turtledemo	zlib
cProfile	dataclasses	functools	itertools	opcode	pwd	shutil	sys	types	zoneinfo
calendar	datetime	gc	json	operator	py_compile	signal	sysconfig	typing	
cgi	dbm	genericpath	keyword	optparse	pyaff	site	syslog	unicodedata	
cgitb	decimal	getopt	lib2to3	os	pyclbr	sitecustomize	tabnanny	unittest	
chunk	difflib	getpass	linecache	parser	pydoc	smtpd	tarfile	urllib	

CircuitPython Modules

.

array

collections

math

errno

binascii

builtins

io

gc   json

os

random
re

time   wheel

struct

sys
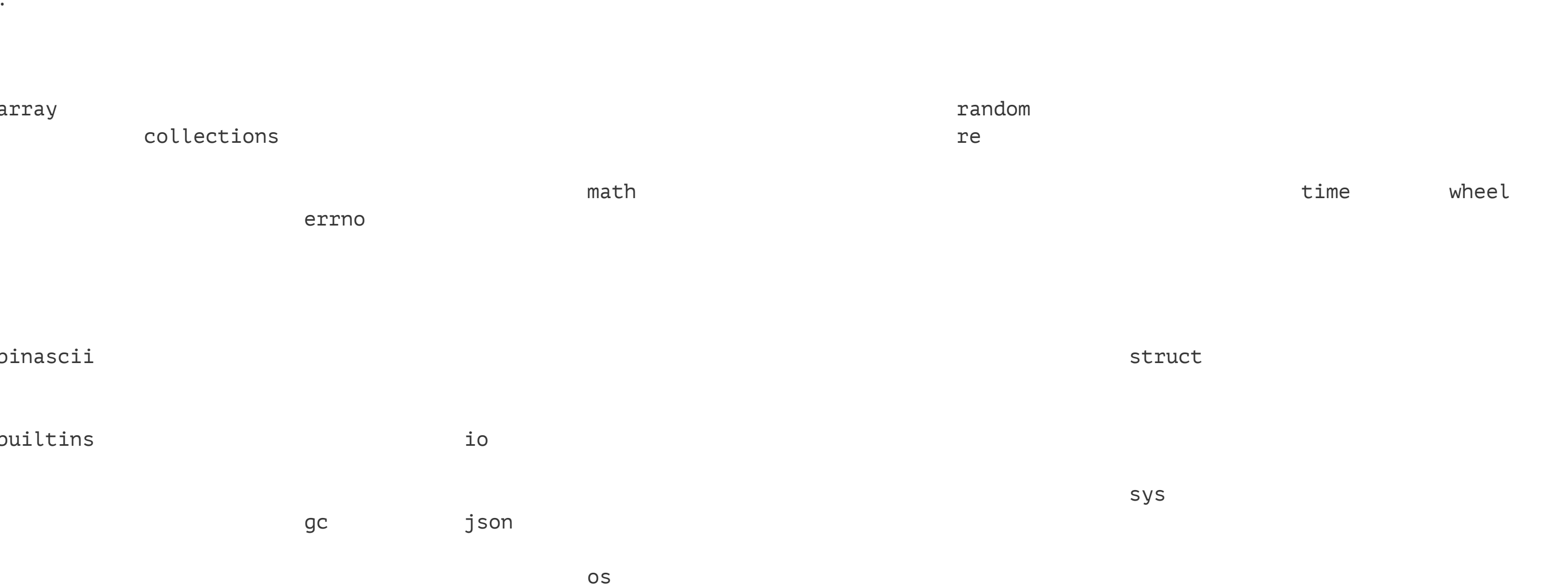
CPython random

Random	gauss	randint	triangular
SystemRandom	getrandbits	random	uniform
betavariate	getstate	randrange	vonmisesvariate
choice	lognormvariate	sample	weibullvariate
choices	normalvariate	seed	
expovariate	paretovariate	setstate	
gammavariate	randbytes	shuffle	

CircuitPython random

randint

getrandbits   random   uniform

randrange

choice

seed

Things people have asked for:

- numpy

- f-strings

- pandas

- Jupyter

- pdb

- asyncio

1. The Python *feel* requires a small core.

Smaller core means Python in more places.

2. Python is much bigger than just python