

Mathematical functions

Python's math library includes a lot of useful functions. We will look at libraries in more detail later. Here is how to use it:

```
>>> import math
>>> math.pi
3.141592653589793
>>> dir(math)
['__doc__', '__loader__', '__name__', '__package__', '__spec__', 'acos',
'acosh', 'asin', 'asinh', 'atan', 'atan2', 'atanh', 'ceil', 'comb', 'copysign',
'cos', 'cosh', 'degrees', 'dist', 'e', 'erf', 'erfc', 'exp', 'expm1', 'fabs',
'factorial', 'floor', 'fmod', 'frexp', 'fsum', 'gamma', 'gcd', 'hypot', 'inf',
'isclose', 'isfinite', 'isinf', 'isnan', 'isqrt', 'lcm', 'ldexp', 'lgamma',
'log', 'log10', 'log1p', 'log2', 'modf', 'nan', 'nextafter', 'perm', 'pi',
'pow', 'prod', 'radians', 'remainder', 'sin', 'sinh', 'sqrt', 'tan', 'tanh',
'tau', 'trunc', 'ulp']
>>> math.log(10)
2.302585092994046
>>> help(math.log)
log(...)
    log(x, [base=math.e])
    Return the logarithm of x to the given base.

    If the base not specified, returns the natural logarithm (base e) of x.
```

Before you can use a library, you need to import it. For instance, 'import math'. We will discuss importing later. Here we've used the pi attribute and the dir and log functions just to show you how but more on this in the next section.

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- to update list of requirements from daily scrums, emails and other sources
 - to plan your requirements, stories
 - to order any new requirements
 - to write sprint report to the team (sprint)
 - to clean up any information holding an sprint backlog tag. Work partly supplied with links
 - to make your backlog and task board are visible to team mates
 - to arrange meetings and have them to coach any new or newly team members, product owners or stakeholders
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