

PEP 572 - Assignment Expressions

@tirkarthi

Read from resource (file/socket)

```
while True:  
    data = resource.read(100) # Read 100 bytes  
  
    if not data:  
        break  
  
    process(data)
```

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- New operator `:=` (Unnamed yet)
- Use assignment expressions in boolean context

```
while (data := resource.read(100)):  
    process(data)
```

Get something from map

```
value = map.get("foo") # Can return 0

if value is not None:
    do_something(value)
```

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```
if (value := map.get("foo")) is not None:
    do_something(value)
```

Regex matching

```
pattern = re.compile(r'(\d+)')  
match = pattern.match(data)  
  
if match:  
    result = match.group(1)
```

```
pattern = re.compile(r'(\d+)')  
  
if (match := pattern.match(data)):  
    result = match.group(1)
```

List comprehensions

```
[square(n) for n in range(1, 10) if square(n) / 2 == 0]
```

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```
[res for n in range(1, 10) if (res := square(n)) / 2 == 0]
```

Discussions and implementations

- [Porting stdlib to PEP 572 by Victor Stinner](#)
- [PEP 572 implementation](#)

Python after PEP 572

- Moving to a different governance model.
- No major development till January 2019.
- Disagree but be kind.

Thanks Guido



Brett Cannon

@brettsky

Following



I owe my career to [@gvanrossum](#) and the Python development team. If it wasn't for the language Guido designed and the team around the language I would not be nearly as knowledgeable in my profession as I am.

[#ThanksGuido](#)

5:31 PM - 12 Jul 2018