

for vs while: Loop Comparison

for Loop	Aspect	while Loop
Iterate over sequence	Use Case	Repeat until condition
Known iterations	Duration	Unknown iterations
for x in sequence:	Syntax	while condition:
Automatic	Increment	Manual
List, range(), dict	Common With	Counters, flags
More readable	Readability	More flexible
Portfolio analysis	Finance Example	Price convergence
<div>for Example</div> <pre>prices = [150, 165, 148] total = 0 for price in prices: total += price avg = total / len(prices) # 3 iterations (known)</pre>		<div>while Example</div> <pre>price = 100 target = 150 while price < target: price *= 1.05 years += 1 # Unknown iterations</pre>