## **PyFoMaC** – Language Comparison Cheat Sheet

	С	Fortran 90	Fortran 77	Python	Matlab
ıdds	+	+		+	+
substracts	-	-		-	_
nultiplies	*	*		*	*
oower	<pre>#include <math.h></math.h></pre>	**		**	^
•	pow(a,b)				
divides	/	/		or // (floor div)	/
modulus	, %	mod(a,b)		%	%
nodurus	70	mod (d, b)		70	76
ncrements	i++	i = i+1		i += 1	i = i+1
decrements	i	i = i-1		i -= 1	i = i-1
equals	==	==	.eq.	==	==
not equals	!=	/=	.eq. .ne.	!=	~=
ess than	:- <	/ <i>-</i> <	.lt.	:-	<
greater than	>	>	.gt.	>	>
< or equal to	<=	<=	.le.	<=	<=
or equal to	>=	>=	.ge.	>=	>=
ogical or		.or.		or	
ogical and	&&	.and.		and	&&
ogical not	!	.not.		not	~
crue	anything but $0$	.true.		True	True
false	0	.false.		False	False
if	if (cond.)	if (cond.) then		if cond.:	if cond.
	{	instr.		instr.	instr.
	<pre>instr.;</pre>	else if / elseif (cond.	) then	elif cond.:	elseif cond.
	}	instr.		instr.	instr.
	else if (cond.)	else		else:	else
	{	instr.		instr.	instr.
	instr.;	endif / end if			end
	}	,			
	else				
	1				
	instr.;				
	instr.,				
'on	5 for (i=0 i<= i+1)	do :-1 -	do 10 i=1 -	for i in(-)	for i-1:-
for	for (i=0,i <n,i++)< td=""><td>do i=1,n</td><td>do 10,i=1,n</td><td>for i in range(n):</td><td>for i=1:n</td></n,i++)<>	do i=1,n	do 10,i=1,n	for i in range(n):	for i=1:n
	<b>1</b>	instr.	instr.	instr.	instr.
	instr.;	enddo	10 continue		end
1 -1	}				
while	while (cond.)	do while (cond.)	do 10 while (cond.)		while cond.
	₹	instr.	instr.	instr.	instr.
	instr.;	end do	10 continue		end
	}				
ext iteration	continue;	cycle		continue	continue
exits loop	break;	exit		break	break
exits program	return 1;	stop		import sys	return
		-		sys.exit()	
nultiple line statement	continue until next;	&		\	
comment	// or /* */			#	%