## **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)		% (Heer art)	, %
nodurus	70	mod (d, b)		70	70
ncrements	i++	i = i+1		i += 1	i = i+1
decrements	i	i = i-1		i -= 1	i = i-1
equals	==	==	00	==	==
not equals	!=	/=	.eq.	!=	~=
ess than	•	•	.ne.	•	
	<	<	.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		111501.	end
	}	endii / end ii			end
	•				
	else				
	1				
	instr.;				
	}				
for	for (i=0,i <n,i++)< td=""><td>do i=1,n</td><td>do 10,i=1,n</td><td><pre>for i in range(n):</pre></td><td>for i=1:n</td></n,i++)<>	do i=1,n	do 10,i=1,n	<pre>for i in range(n):</pre>	for i=1:n
	{	instr.	instr.	instr.	instr.
	<pre>instr.;</pre>	enddo	10 continue		end
	}				
while	while (cond.)	do while (cond.)	do 10 while (cond.)	while cond.:	while cond.
	{	instr.	instr.	instr.	instr.
	<pre>instr.;</pre>	end do	10 continue		end
	}				
ext iteration	continue;	cycle		continue	continue
exits loop	break;	exit		break	break
exits program	return 1;	call exit([status])		import sys	return
Aros program	i Gouin I,	carr exit([status])		sys.exit()	Teourn
multiple line statement	continuo until nort	0-		Sys. EXIL()	
multiple line statement	continue until next;	&		\ #	
comment	// or /* */	!		#	%