

# CS Pro Language Cheat Sheet

## Math

abs  
average  
exp  
high  
inc  
int  
log  
low  
max  
min  
random  
recode  
seed  
sqrt  
sum

## Special Values

default  
missing  
notappl

## Strings

compare  
concat  
edit  
length  
maketext  
pos  
poschar  
strip  
substring  
sysparm  
tolower  
tonumber  
toupper

## Program Control

break  
endgroup  
endlevel  
execpff  
execsystem  
exit  
next  
stop  
universe

## Dates

dateadd  
datediff  
sysdate  
systeme

## Data Types

alpha, numeric

## Variable Declaration

alpha[(len)] var-1[,...,var-n];  
numeric var-1[,...,var-n];

## Arrays

array [alpha[(len)]] array-name(dim-1[,  
...,dim-3]) [save];

## String Operator

string [start:length]

## Comments

//Line comment  
{Multi-line comment}

## Arithmetic Operators

+	Addition	-	Subtraction
*	Multiplication	/	Division
%	Remainder	^	Exponentiation

## Relational Operators

=	Equal	<>	Not equal
<	Less than	<=	Less than or equal
>	Greater than	>=	Greater than or equal
in	In range	has	Has range

## Logical Operators

symbol	word	description
!	not	negation
&	and	conjunction
	or	disjunction

## Data Entry

### Functions

accept(heading, opt-1[,...,opt-n]);  
advance [to] field-name;  
demode();  
enter form-file-name;  
move [to] field-name;  
noinput;  
reenter [field-name];  
savepartial();  
setlanguage(alpha-expression);  
skip [to [next]] field-name;  
visualvalue(numeric-item);

### CAPI

gps  
setcapturetype  
setfont  
setorientation  
show  
userbar

### Events

killFocus  
onChar  
onFocus  
onKey  
onStop

### Notes

editnote  
getnote  
putnote

## Error Handling

errmsg("alpha-exp"|msg-num[,p-1[,...  
p-n]]) [denom=var] [case|summary];  
%d Display number as integer  
%f Display number with decimal  
%s Display text string

## Function Structure

function function-name([p-1[,...,p-n]);  
statements;  
function-name = numeric-exp;  
end;

## If Else

if condition then  
statements;  
[elseif condition then  
statements;]  
[else  
statements;]  
endif;

## For Loop

for num-var in [record | item | relation]  
group do  
statements;  
[next;] [break;]  
enddo;

## While Loop

while condition do  
statements;  
enddo;

## Do While Loop

do [var = expression] while/until  
condition [by expression]  
statements;  
enddo;

## Batch Edit

### Functions

endcase;  
getbuffer(item-name);  
getdeck(array-name[,dim-1[,...,dim-3]);  
impute (item-name, expression);  
putdeck(array-name,numeric-expression  
[,dim-1[,...,dim-3]);  
seek(mult-item condition[,num-expr]);  
skip case;  
swap(group-name,record-number,  
record-number);

## Records

count  
curocc  
delete  
insert  
skip  
sort  
totocc

## Dictionaries

clear  
close  
delcase  
find  
key  
loadcase  
locate  
open  
retrieve  
selcase  
writcase

## Files

close  
file  
fileconcat  
filecopy  
filecreate  
filedelete  
fileempty  
fileexist  
filename  
fileread  
filename  
filesize  
filewrite  
open  
pathname  
setfile  
write

## Value Sets

countnonspecial  
getlabel  
invalueset  
maxvalue  
minvalue  
setvalueset  
setvaluesets  
special