

## Scripts

Script file：is an external file that contains a sequence of MATLAB statements．Has extension ．m，called M－file．

Type the filename to execute statements．Useful for automating blocks of MATLAB commands，such as computations you have to perform repeatedly from the command line．

Scripts can operate on data in the workspace or can create new data on which to operate．Any variables they create remain in the workspace

No declarations or begin／end delimiters required．
Comments：Any text following a percent sign（\％）on a given line is comment text．Comments can appear on lines by themselves or can appear after a statement on an executable line．

Scripts
Obtained by clicking
help and searching
for＂script＂

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|  | Te：scipt（Mathat furcios） |
| Sesth trex selat | ， |
|  | MATLAB Function Reference |
| Scripts Pro： |  |
| MEX Script Switches Call | script |
| M－File Seripts and Fu．．．M－F |  |
| Creating a MATLAB ．．．Usir | Script M－files |
| Installation Notes Relf |  |
| MATLAB Products Relt |  |
| Using the License Ma．．．Inst | Description |
| Starting MATLAB Ma．．．Inst |  |
| Network Configuratio．．．Net | A script file is an external file that contains a |
| Starting the License ．．．Inst | sequence of MATLAB statements．By typing |
|  | the filename，you can obtain subsequent |
| Configuring Redunda．．．Lice | MATLAB input from the file．Script files have |
| License Manager To．．．Lice ${ }_{\vee}$ | a filename extension of. m and are often |
| Search SupportDatabase on Web for scipt | called M－files． |

Created using File－＞New－＞M－File．Stored automatically in folder work within MatLab．You can navigate to store it where you want．I


## Conditional statements

## if expression statements end

if expression1 statements 1 elseif expression2 statements2 else
statements3
end
Found these by typing＂if＂into search window of Help

Logical operators．
0 represents false Not－0 represents true A \＆B $A \mid B$
～A
Short circuit
evaluation：
$A \& \& B$
$A|\mid B$
Found these by
typing＂logical
operators＂into search
window of Help

## Loops

for index＝start：increment：end statements

## End

If you leave
out the
increment
1 is used．
while expression statements end

Found this info by typing ＂loop＂into search window of Help
\％Example：binary search
$\mathrm{t}=($ size $(\mathrm{r})$ ）；
nocols＝ t （2）；
$x=-5$ ；
\％Row Vector $r$ is sorted．
\％Store in h an integer that satisfies
\％$\quad r[1 . . h]<=x<f[h+1$ ．．nocols］
$\mathrm{h}=0$ ；
$\mathrm{k}=$ nocols +1 ；
\％invariant：r［1．．h］＜＝x＜f［k．．nocols］
while（ $\mathrm{h}+1<\mathrm{k}$ ）
$\mathrm{e}=$ floor $((\mathrm{h}+\mathrm{k}) / 2)$ ；
if $(r(e)<=x)$
$h=e$ ；
else $\mathrm{k}=\mathrm{e}$ ；
end
end

