

Harper — EIWL Sections 39, 40

Section 39

```
In[161]:= x = RandomInteger[100]
```

```
Out[161]= 39
```

```
In[162]:= {x, x + 1, x + 2, x ^ 2}
```

```
Out[162]= {39, 40, 41, 1521}
```

```
In[163]:= Clear[x]
```

```
In[164]:= x := RandomInteger[100]
```

```
In[165]:= {x, x + 1, x + 2, x ^ 2}
```

```
Out[165]= {69, 89, 91, 5041}
```

Section 40

```
In[166]:= f[n_] := n ^ 2
```


```
In[167]:= poly[a_] := Graphics[Style[RegularPolygon[a], Orange]]
```

```
In[168]:= f[b_, c_] := {c, b}
```

```
In[169]:= f[d_, e_] :=  $\frac{d e}{d + e}$ 
```

```
In[170]:= f[f_, g_] := {f + g, f - g, f / g}
```

```
In[171]:= evenodd[h_] := If[EvenQ[h], Black, White]; evenodd[0] = Red
```

```
Out[171]= 
```

```
In[172]:= f[i_, j_, k_] := f[1, _, _] = j + k; f[2, _, _] = j * k; f[3, _, _] = j ^ k
```

```
Out[172]= jk
```

```
In[173]:= fibonacci[l_] := fibonacci[l - 1] + fibonacci[l - 2]; fibonacci[0] = 1; fibonacci[1] = 1
```

```
Out[173]= 1
```

```
In[174]:= animal[m_] := Interpreter["Animal"][m]["Image"]
```

```
In[175]:=
```

```
In[176]:= animal["cat"]
```

```
Out[176]=
```



```
In[177]:= nearwords[n_, o_] := Nearest[WordList[], n, o]
```

```
In[178]:= nearwords["cat", 5]
```

```
Out[178]= {cat, at, bat, cab, cad}
```

```
In[179]:=
```