Project: Planets 026 vs 1.78.rbp

Date: Wednesday, September 9, 2015 9:20:51 PM

Project Info:

Mac (Carbon PEF) App Name: My Application

Mac (Carbon Mach-O) App Name: SCRS 1.78

Windows App Name: My Application.exe

Linux App Name: MyApplication

Long Version:

Major Version: 1

Minor Version: 0

Sub Version: 0

Release: 0

Non-Release: 0

Mac Creator Code:

Windows MDI Caption:

Minimum Memory Size: 2048

Standard Memory Size: 4096

Class App

Inherits Application

Const kEditClear = "&Delete"
Const kFileQuit = "&Quit"
Const kFileQuitShortcut = ""
End Class

Class Window1

Inherits Window

Window1.EnableMenuItems:

Sub EnableMenuItems()

FileOpen.enable

End Sub

Window1.Open:

```
Sub Open()
    'Data Entry
    'People
    'Name (use any form: first name, nickname, initials, full name, etc.)
    'PullDown Menu for spouse, partner/lover, child, sibling, friend, supervisor, co-worker etc
    'Optional comment
    'Closeness
    'PullDown Menu for Inner Circle, Casual Circle, Outer Circle
    'Strength of Influence (positive or negative)
    'PullDown Menu for Strong, Moderate, Minimal
    'Likeability
    'PullDown Menu for Strong, Moderate, Minimal
    'Nature of your relatonship
    'PullDown Menu for 1-9, Negative, Neutral, Positive
    'Post Data Entry
    'Check for minimum 30 names
    'Count # of people per circle
    'DrawCircle graph (strength of influence is distance, likability is size, relational valence is color)
    'Allow connections draw
    'Strong connections are thick black lines
    'Weak connections are thin gray lines
    'Allow graph mods
    'Show/Hide network connections
```

```
  'Select color scheme for relational valence

  MakeColors
  //MakeDefaultFile
  //MakeDefaults2
  //DisplayW.show

End Sub
```

Window1.FileNew:

```
Function FileNew() As Boolean
  dim i as integer

  if NumPlanets>0 then
    LMmsg="Save current file before creating a new file? If you don't save, current cha
    nges will be lost."
    for i=0 to 2
      LMoption(i)=true
    next
    LMCaption(0)="Don't Save"
    LMCaption(1)="Cancel"
    LMCaption(2)="Save"

    LMmsgW.ShowModal
  end If

  Select Case LMAnswer
```

```
  Case 0//don't save
    NumPlanets=0
  Case 1//cancel
    //do nothing
  Case 2//Save
    SaveSCRS
    NumPlanets=0
  End Select

  Return True

End Function
```

Window1.FileOpen:

```
Function FileOpen() As Boolean
  dim i as integer
  LMAnswer=0
  NumPlanets=0
  if NumPlanets>0 then
    LMmsg="Save current file before opening a new file? If you don't save, current cha
    nges will be lost."
    for i=0 to 2
      LMoption(i)=true
    next
    LMCaption(0)="Don't Save"
    LMCaption(1)="Cancel"
    LMCaption(2)="Save"
```

```
    LMmsgW.ShowModal
  end If

  Select Case LMAnswer
  Case 0//don't save
    NumPlanets=0
    OpenSCRS
    hide
    DisplayW.Show
  Case 1//cancel
    //do nothing
  Case 2//Save
    SaveSCRS
    NumPlanets=0
    OpenSCRS
    hide
  End Select

  Return True

End Function
```

Window1.FileSave:

```
Function FileSave() As Boolean
  SaveSCRS
  Return True
```

```
End Function
```

Window1.MakeColors:

```
Sub MakeColors()
   Dim i as integer

   NumColors=9
   Redim PColor(NumColors)

   for i=0 to 8
      PColor(i+1)=CRect(i).FillColor
   next

   PColor(0)=rgb(255,255,255)
End Sub
```

Window1.MakeDefaultFile:

```
Sub MakeDefaultFile()
   dim i as Integer
   NumPlanets=4
   ReDim Planet(NumPlanets)
   for i=1 to NumPlanets
      Planet(i)=new PlanetClass
      Planet(i).Orbit=1
      Planet(i).Influence=3
```

```
   Planet(i).Likeability=3
   Planet(i).RValence=10-i
next

NumPlanets=7
ReDim Planet(NumPlanets)
for i=5 to NumPlanets
   Planet(i)=new PlanetClass
   Planet(i).Orbit=1
   Planet(i).Influence=2
   Planet(i).Likeability=2
   Planet(i).RValence=9-(i mod 7)
next

NumPlanets=11
ReDim Planet(NumPlanets)
for i=8 to NumPlanets
   Planet(i)=new PlanetClass
   Planet(i).Orbit=1
   Planet(i).Influence=1
   Planet(i).Likeability=1
   Planet(i).RValence=9-(i mod 7)
next

NumPlanets=15
ReDim Planet(NumPlanets)
for i=12 to NumPlanets
   Planet(i)=new PlanetClass
```

```
    Planet(i).Orbit=2
    Planet(i).Influence=2
    Planet(i).Likeability=3
    Planet(i).RValence=9-(i mod 7)
next

NumPlanets=19
ReDim Planet(NumPlanets)
for i=16 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=2
    Planet(i).Influence=1
    Planet(i).Likeability=2
    Planet(i).RValence=9-(i mod 7)
next

NumPlanets=23
ReDim Planet(NumPlanets)
for i=20 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=2
    Planet(i).Influence=1
    Planet(i).Likeability=1
    Planet(i).RValence=9-(i mod 7)
next

NumPlanets=31
ReDim Planet(NumPlanets)
```

```
  for i=24 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=3
    Planet(i).Influence=1
    Planet(i).Likeability=(i-20) mod 3 +1
    Planet(i).RValence=i mod 7 +2
  next

End Sub
```

Window1.MakeDefaults2:

```
Sub MakeDefaults2()
  dim i as Integer
  NumPlanets=5
  ReDim Planet(NumPlanets)
  for i=1 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=1
    Planet(i).Influence=3
    Planet(i).Likeability=3
    Planet(i).RValence=9
  next

  NumPlanets=7
  ReDim Planet(NumPlanets)
  for i=6 to NumPlanets
    Planet(i)=new PlanetClass
```

```
    Planet(i).Orbit=1
    Planet(i).Influence=3
    Planet(i).Likeability=2
    Planet(i).RValence=8
next

NumPlanets=9
ReDim Planet(NumPlanets)
for i=8 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=1
    Planet(i).Influence=2
    Planet(i).Likeability=1
    Planet(i).RValence=7
next

//middle
NumPlanets=12
ReDim Planet(NumPlanets)
for i=10 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=1
    Planet(i).Influence=2
    Planet(i).Likeability=2
    Planet(i).RValence=7
next

NumPlanets=15
```

```
ReDim Planet(NumPlanets)
for i=13 to NumPlanets
   Planet(i)=new PlanetClass
   Planet(i).Orbit=2
   Planet(i).Influence=2
   Planet(i).Likeability=3
   Planet(i).RValence=6
next

NumPlanets=19
ReDim Planet(NumPlanets)
for i=16 to NumPlanets
   Planet(i)=new PlanetClass
   Planet(i).Orbit=2
   Planet(i).Influence=2
   Planet(i).Likeability=2
   Planet(i).RValence=5
next

//outer
NumPlanets=22
ReDim Planet(NumPlanets)
for i=20 to NumPlanets
   Planet(i)=new PlanetClass
   Planet(i).Orbit=3
   Planet(i).Influence=1
   Planet(i).Likeability=1
   Planet(i).RValence=5
```

```
  next

  NumPlanets=24
  ReDim Planet(NumPlanets)
  for i=23 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=3
    Planet(i).Influence=1
    Planet(i).Likeability=2
    Planet(i).RValence=4
  next

  NumPlanets=26
  ReDim Planet(NumPlanets)
  for i=25 to NumPlanets
    Planet(i)=new PlanetClass
    Planet(i).Orbit=3
    Planet(i).Influence=1
    Planet(i).Likeability=3
    Planet(i).RValence=3
  next

End Sub
```

Window1 Control Step1PB:

```
Sub Action()
  DataW.show
```

```
    hide

End Sub
End Class
```

Class PlanetClass

```
FirstName As String

Former As Boolean

Hollow As Boolean

Influence As Integer

InfluenceStr As String

Initials As String

Likeability As Integer

LikeStr As String

Name As String
```

NumComPStrings As Integer

NumTherPStrings As Integer

OptComment As String

Orbit As Integer

OrbitStr As String

PDistance As Integer

PSize As Integer

Relationship As String

RFreq As Integer

RFreqStr As String

RLen As Integer

RLenStr As String

RValence As Integer

RValStr As String

TherapistComment As String

x As Double

y As double

End Class

Module Module1

```
Const Black = &c000000
Const Blue = &c0000FF
Const Grey = &c7F7F7F
Const LightGrey = &cDFDFDF
Const LtBlue = &c7FFFFF
Const Pi = 3.14159265358979323846264338327950
Const SCRSVersion = "SCRS 1.4"
Const White = &cFFFFFF
```

Module1.ExtractInitials:

```
Sub ExtractInitials()
   Dim i, j, L  as integer
   Dim S, c as string
   Dim SpaceFound as Boolean
   For i=1 to NumPlanets
```

```
   s=Planet(i).Name
   L=len(s)
   For j=1 to L
      c=mid(s,j,1)
      if j=1 then
         Planet(i).Initials=Uppercase(c)+"."
      else
         if c=" " or c="." then
            if j+1<=L then
               c=mid(s,j+1,1)
               Planet(i).Initials=Planet(i).Initials+Uppercase(c)+"."
            end if
         end if
      end if
   next
next

for i=1 to NumPlanets
   s=Planet(i).Name
   L=len(s)
   //Extract First Name
   For j=1 to L
      c=mid(s,j,1)
      if j=1 then
         Planet(i).FirstName=Uppercase(c)
      elseif c=" " then
         Exit
      else
```

```
        Planet(i).FirstName=Planet(i).FirstName+c
      end if
    next
    //MsgBox "planet(i).FirstName="+planet(i).FirstName
next



s=ClientName
L=len(s)
For i=1 to L
    c=mid(s,i,1)
    if i=1 then
      ClientInitials=Uppercase(c)+"."
    else
      if c=" " then
        if i+1<=L then
          c=mid(s,i+1,1)
          ClientInitials=ClientInitials+Uppercase(c)+"."
        end if
      end if
    end if
next

//Extract First Name
For i=1 to L
    c=mid(s,i,1)
    if i=1 then
      FirstName=Uppercase(c)
```

```
    elseif c=" " then
      Exit
    else
      FirstName=FirstName+c
    end if
  next



End Sub
```

Module1.NewSCRS:

```
Sub NewSCRS()
  NumPlanets=0
  EditMode=0

  DataW.show
  //DisplayW.hide
End Sub
```

Module1.OpenSCRS:

```
Sub OpenSCRS()
  Dim i, j, n as Integer
  Dim dlg as OpenDialog
  Dim F as FolderItem
  Dim stream as BinaryStream
```

```
Dim s as string

dlg=new  OpenDialog
dlg.Title="Select an SCRS File"

F=dlg.showmodal()
if f<> nil then
   stream=BinaryStream.Open(f,False)
   s=stream.ReadPString
   if s=SCRSVersion then
      NumPlanets=stream.ReadSingle
      redim Planet(NumPlanets)

      for i=1 to NumPlanets
         Planet(i)=new PlanetClass
         Planet(i).Hollow=stream.ReadBoolean
         Planet(i).Influence=stream.ReadSingle
         Planet(i).Likeability=stream.ReadSingle
         Planet(i).Name= stream.ReadPString
         Planet(i).OptComment=stream.ReadPString
         Planet(i).Orbit=stream.ReadSingle
         planet(i).Relationship=stream.ReadPString
         Planet(i).RValence=stream.ReadSingle

         Planet(i).OrbitStr=stream.ReadPString
         Planet(i).LikeStr=stream.ReadPString
         Planet(i).InfluenceStr=stream.ReadPString
         Planet(i).RValStr=stream.ReadPString
```

```
    Planet(i).RLen=stream.ReadSingle
    Planet(i).RLenStr=stream.ReadPString
    Planet(i).RFreq=stream.ReadSingle

    If Planet(i).RFreq=6 then//6 means "Not Applicable - Former"
       Planet(i).Hollow=True
       Planet(i).Former=True
    elseif Planet(i).RFreq=7 then//7 means "Not Applicable - Deceased"
       Planet(i).Hollow=True
    End if
    Planet(i).RFreqStr=stream.ReadPString

next
ClientName=stream.ReadPString
ProfileDate=stream.ReadPString
TherapistName=stream.ReadPString

GenClientComment=""
//added parameters
if not stream.EOF then
    n=Stream.ReadSingle
    for i=0 to n
       S=Stream.ReadPString
       GenClientComment=GenClientComment+s
    next
end if
//Client and Therapist comments
```

```
      if not stream.EOF then
        for i = 1 to NumPlanets
          Planet(i).OptComment=""
          n=Stream.ReadSingle
          for j=0 to n
            S=Stream.ReadPString
            Planet(i).OptComment=Planet(i).OptComment+s
          next
          Planet(i).TherapistComment=""
          n=Stream.ReadSingle
          for j=0 to n
            S=Stream.ReadPString
            Planet(i).TherapistComment=Planet(i).TherapistComment+s
          next
        next
      end if


    else
      MsgBox f.name+" cannot be opened because it is not a valid SCRS file"
    end if
    stream.Close
    Changed=false



  end if
End Sub
```

Module1.PicSave:

```
Sub PicSave()
   //Dim i as Integer
   Dim dlg as SaveAsDialog
   Dim F as FolderItem
   //Dim stream as BinaryStream

   dlg=new SaveAsDialog
   dlg.Title="Save SCRS Picture"
   dlg.PromptText="Select a descriptive, specific name for your file."
   F=dlg.showmodal()
   if f<> nil then
      //ProductImageWell.Image.Save(f,Picture.SaveAsJPEG)
      ProfilePic.Save(f,Picture.SaveAsPNG)
   End If
End Sub
```

Module1.SaveSCRS:

```
Sub SaveSCRS()

   Dim i,j as Integer
   Dim dlg as SaveAsDialog
   Dim F as FolderItem
   Dim stream as BinaryStream
```

```
dlg=new SaveAsDialog
dlg.Title="Save SCRS File"
dlg.PromptText="Select a descriptive, specific name for your file."
F=dlg.showmodal()
if f<> nil then
   stream=BinaryStream.Create(f,True)
   stream.WritePString(SCRSVersion)
   stream.WriteSingle(NumPlanets)
   for i=1 to NumPlanets
      stream.WriteBoolean(Planet(i).Hollow)
      stream.WriteSingle (Planet(i).Influence)
      stream.WriteSingle(Planet(i).Likeability)
      stream.WritePString(planet(i).Name)
      stream.WritePString(planet(i).OptComment)
      stream.WriteSingle(Planet(i).Orbit)
      stream.WritePString(planet(i).Relationship)
      stream.WriteSingle(Planet(i).RValence)

      stream.WritePString(planet(i).OrbitStr)
      stream.WritePString(planet(i).LikeStr)
      stream.WritePString(planet(i).InfluenceStr)
      stream.WritePString(planet(i).RValStr)

      stream.WriteSingle(Planet(i).RLen)
      stream.WritePString(Planet(i).RLenStr)
      stream.WriteSingle(Planet(i).RFreq)
      stream.WritePString(Planet(i).RFreqStr)
   next
```

```
stream.WritePString(ClientName)
stream.WritePString(ProfileDate)
stream.WritePString(TherapistName)

//added parameters
//GenClientComment
Dim sl, n, count, limit as Integer
Dim s, c as String
Dim PS(0) as String
Dim NumPS as Integer

limit=200
s=GenClientComment
sl=len(s)

NumPS=0
for i=1 to sl
  c=mid(s,i,1)

  PS(NumPS)=PS(NumPS)+c
  if i<sl then
    count=count+1
    if count=limit then
      count=1
      NumPS=NumPS+1
      redim PS(NumPS)
      PS(NumPS)=""
    end if
```

```
   end if
next

Stream.WriteSingle NumPS
for i=0 to NumPS
   stream.WritePString PS(i)

next

//Client and Therapist Comments
For i=1 to NumPlanets
   count=0
   NumPS=0
   PS(NumPS)=""
   s=Planet(i).OptComment
   sl=len(s)

   for j=1 to sl

      c=mid(s,j,1)
      PS(NumPS)=PS(NumPS)+c
      if j<sl then
         count=count+1
         if count=limit then
            count=1
            NumPS=NumPS+1
            redim PS(NumPS)
            PS(NumPS)=""
```

```
      end if
   end  if
next
Stream.WriteSingle NumPS
for j=0 to NumPS
   stream.WritePString PS(j)
next

NumPS=0
count=0
PS(NumPS)=""
redim PS(NumPS)
s=Planet(i).TherapistComment
sl=len(s)

for j=1 to sl
   c=mid(s,j,1)
   PS(NumPS)=PS(NumPS)+c
   if j<sl then
      count=count+1
      if count=limit then
         count=1
         NumPS=NumPS+1
         redim PS(NumPS)
         PS(NumPS)=""
      end if
   end if
next
```

```
        Stream.WriteSingle NumPS
        for j=0 to NumPS
           stream.WritePString PS(j)
        next
      next

      stream.Close
      Changed=false
   end if
End Sub
Changed As Boolean

ClientInitials As String

ClientName As String

CurrentRIndex As Integer

EditMode As Integer

FirstName As String

GenClientComment As String

LMAnswer As Integer

LMCaption(2) As String
```

LMmsg As String

LMoption(2) As Boolean

NumColors As Integer

NumPlanets As Integer

PColor(0) As Color

Planet(0) As PlanetClass

ProfileDate As String

ProfilePic As picture

Stage As Integer

TherapistName As String

End Module

Class PeopleW

Inherits Window

PeopleW.MouseDown:

```
Function MouseDown(X As Integer, Y As Integer) As Boolean
  close
End Function
NumNames As Integer

PName As String
```

PeopleW Control NameTA:

```
Function KeyDown(Key As String) As Boolean

  if key=chr(13) then
    //add to name list
    NumNames=NumNames+1
    NumNamesTF.text=str(NumNames)+ " name"
    if NumNames>1 then
      NumNamesTF.text=NumNamesTF.text+"s"
    end if
    DonePB.Enabled=true

  end if

End Function
```

PeopleW Control DonePB:

```
Sub Action()
   dim c,s as string
   dim i,l as integer
   s=NameTA.text
   l=len(S)
   NumPlanets=0
   for i=1 to l
      c=mid(s,i,1)
      if c=chr(13) then
         If len(Pname)>0 then
            NumPlanets=NumPlanets+1
            redim Planet(NumPlanets)
            Planet(NumPlanets)=new PlanetClass
            Planet(NumPlanets).name=PName
            PName=""
         end if
      else
         PName=PName+c
      end if

   next
   'MsgBox "num planets="+str(NumPlanets)
   's=""
   'for i=1 to NumPlanets
   's=s+Planet(i).Name + chr(13)
   'next
   '
```

```
  'MsgBox s

  'if NumPlanets<2 then
  'MsgBox" Please enter at least 2 names"
  'else
  'close
  'end if

  RelationshipW.show
  hide
End Sub
End Class
```

Class RelationshipW

Inherits Window

RelationshipW.Open:

```
Sub Open()
  Select Case EditMode
  case 0
    Current=0
    IncrementCurrent
  case 2
    Current=NumPlanets-1
```

```
    IncrementCurrent
    ZeroAllPullDowns
    NextPB.Caption="OK"
  case 4
    Current=CurrentRIndex-1
    IncrementCurrent
    ChangePullDowns
    NextPB.Caption="OK"
  end select



End Sub
```

RelationshipW.ChangePullDowns:

```
Sub ChangePullDowns()
  Select Case Planet(Current).Relationship
  Case "Spouse"
    RelationshipPU.ListIndex=1
  Case "Former Spouse"
    RelationshipPU.ListIndex=2
  Case "Partner/Lover"
    RelationshipPU.ListIndex=3
  Case "Former Partner/Lover"
    RelationshipPU.ListIndex=4
  Case "Parent"
    RelationshipPU.ListIndex=5
```

```
Case "Stepparent"
   RelationshipPU.ListIndex=6
Case "Child"
   RelationshipPU.ListIndex=7
Case "Stepchild"
   RelationshipPU.ListIndex=8
Case "Sbling"
   RelationshipPU.ListIndex=9
Case "Other Relative"
   RelationshipPU.ListIndex=10
Case "Deceased Relative"
   RelationshipPU.ListIndex=11
Case "Friend"
   RelationshipPU.ListIndex=12
Case "Neighbor"
   RelationshipPU.ListIndex=13
Case "Aquaintance"
   RelationshipPU.ListIndex=14
Case "Co-worker"
   RelationshipPU.ListIndex=15
Case "Boss/Supervisor"
   RelationshipPU.ListIndex=16
Case "Infkuence"
   RelationshipPU.ListIndex=17
Case "Pet"
   RelationshipPU.ListIndex=18
Case "Other"
    RelationshipPU.ListIndex=19
```

```
  Else
    RelationshipPU.ListIndex=0
  End Select

  OrbitPU.ListIndex=Planet(Current).Orbit
  InfluencePU.ListIndex=Planet(Current).Influence
  LikeabilityPU.ListIndex=Planet(Current).Likeability
  RValencePU.ListIndex=Planet(Current).RValence
  RLenPU.ListIndex=Planet(Current).RLen
  RFreqPU.ListIndex=Planet(Current).RFreq
  CommentTA.text=Planet(Current).OptComment
End Sub
```

RelationshipW.CheckAllAnswered:

```
Function CheckAllAnswered() As Boolean
  dim b as Boolean

  if RelationshipPU.ListIndex=0 then
    MsgBox "Please Answer Question One (relationship type)"

    return false
  end if

  if OrbitPU.ListIndex=0 then
    MsgBox "Please Answer Question Two (level of closeness)"
    return false
```

```
    end if

    if InfluencePU.ListIndex=0 then
        MsgBox "Please Answer Question Three (strength of influence)"
        return false
    end if

    if LikeabilityPU.ListIndex=0 then
        MsgBox "Please Answer Question Four (affinity/likeability)"
        return false
    end if

    if RValencePU.ListIndex=0 then
        MsgBox "Please Answer Question Five (neg/pos effect)"
        return false
    end if

    if RLenPU.ListIndex=0 then
        MsgBox "Please Answer Question Six (length of relationship)"
        return false
    end if

    if RFreqPU.ListIndex=0 then
        MsgBox "Please Answer Question Seven (frequency of interaction)"
        return false
    end if
    return True
End Function
```

RelationshipW.IncrementCurrent:

```
Sub IncrementCurrent()
   current=current+1

   'if current>NumPlanets then
   'NextPB.Caption="Done"
   'else
   NameTF.text="Who is "+Planet(current).Name+"?"

   'end if
End Sub
```

RelationshipW.ZeroAllPullDowns:

```
Sub ZeroAllPullDowns()

   RelationshipPU.ListIndex=0
   OrbitPU.ListIndex=0
   InfluencePU.ListIndex=0
   LikeabilityPU.ListIndex=0
   RValencePU.ListIndex=0
   RLenPU.ListIndex=0
   RFreqPU.ListIndex=0
   CommentTA.text=""
End Sub
Current As Integer
```

RelationshipW Control RelationshipPU:

```
Sub Change()
   dim s as string
   dim n as Integer
   n=me.ListIndex

   s=me.List(n)
   Select Case n
   Case 0 // no choice was made
      s=""
   Case 11 // deceased
      Planet(Current).Hollow=true
   Case 17  //influence
      s="Infkuence" //simply condensed text
      Planet(Current).Hollow=true
   Case 19  //other
      s="Other" //simply condensed text
   End Select

   Planet(Current).Relationship=s
   Changed=true

   //MsgBox "Planet(Current).Relationship="+s
   //Planet(Current).Relationship
```

```
End Sub
```

RelationshipW Control OrbitPU:

```
Sub Change()
   Dim S as string
   dim L as Integer

   If me.ListIndex>0 then
      Planet(Current).Orbit=me.ListIndex

      S=me.list(me.listindex)
      L=len(S)
      Planet(Current).OrbitStr=right(S,L-3)
      Changed=true
   end if
End Sub
```

RelationshipW Control InfluencePU:

```
Sub Change()
   Dim S as string
   dim L as Integer
   If me.ListIndex>0 then
      Planet(Current).Influence=me.ListIndex

      S=me.list(me.listindex)
```

```
    L=len(S)
    Planet(Current).InfluenceStr=right(S,L-3)
    Changed=true
  end if
End Sub
```

RelationshipW Control LikeabilityPU:

```
Sub Change()
  Dim S as string
  dim L as Integer
  If me.ListIndex>0 then
    Planet(Current).Likeability=me.ListIndex

    S=me.list(me.listindex)
    L=len(S)
    Planet(Current).LikeStr=right(S,L-3)
    Changed=true
  end if
End Sub
```

RelationshipW Control RValencePU:

```
Sub Change()
  Dim S as string
  dim L as Integer

  If me.ListIndex>0 then
```

```
    Planet(Current).RValence=me.ListIndex

    S=me.list(me.listindex)
    L=len(S)
    Planet(Current).RValStr=right(S,L-3)
    Changed=true
  end if
End Sub
```

RelationshipW Control NextPB:

```
Sub Action()
  dim b as Boolean

  b=CheckAllAnswered
  if b then
    planet(Current).OptComment=CommentTA.text

    select case EditMode
    case 4
      DisplayW.show
      close
    else
      if Current<NumPlanets then
        IncrementCurrent
        ZeroAllPullDowns
      else
        if EditMode=0 then
```

```
            MsgBox "Step Two Completed"
          end if
          DisplayW.show
          close
        end If
      end Select

  end if
End Sub
```

RelationshipW Control PushButton1:

```
Sub Action()
  DescriptionW.ShowModal

End Sub
```

RelationshipW Control RLenPU:

```
Sub Change()
  Dim S as string
  dim L as Integer

  If me.ListIndex>0 then
    Planet(Current).RLen=me.ListIndex

    S=me.list(me.listindex)
    L=len(S)
```

```
    Planet(Current).RLenStr=right(S,L-3)
    Changed=true
  end if
End Sub
```

RelationshipW Control RFreqPU:

```
Sub Change()
  Dim S as string
  dim L as Integer

  If me.ListIndex>0 then
    Planet(Current).RFreq=me.ListIndex

    S=me.list(me.listindex)
    L=len(S)
    Planet(Current).RFreqStr=right(S,L-3)
    if me.ListIndex=6 then
      Planet(Current).Hollow=true
    end if
    Changed=true
  end if
End Sub
End Class
```

Class DescriptionW

Inherits Window

DescriptionW.MouseDown:

```
Function MouseDown(X As Integer, Y As Integer) As Boolean
  close

End Function
End Class
```

Class DisplayW

Inherits Window

DisplayW.Activate:

```
Sub Activate()
  PrepareData
End Sub
```

DisplayW.CancelClose:

```
Function CancelClose(appQuitting as Boolean) As Boolean
  dim i as Integer
```

```
  If changed then
    LMmsg="Save Changes before quitting? If you don't save, any changes will be lost
    ."

    for i=0 to 2
      LMoption(i)=true
    next

    LMmsgW.ShowModal

    select case LMAnswer
    case 0
      return false// don't save
    case 1
      return True// cancel - do nothing
    case 2
      SaveSCRS
      return false
    end Select
  end if
End Function
```

DisplayW.EnableMenuItems:

```
Sub EnableMenuItems()
  FileNew.enable
  FileOpen.enable
  if NumPlanets>0 then
```

```
    FileSave.enable
    FileSaveasPicture.enable
  end if

  EditEditProfile.Enable
  EditAdd.Enable
  EditDelete.Enable
  EditModify.Enable

End Sub
```

DisplayW.Open:

```
Sub Open()
  PrepareData
End Sub
```

DisplayW.EditAdd:

```
Function EditAdd() As Boolean
  EditMode=2
  PropertyW.close
  AddW.show
  hide

  Return True

End Function
```

DisplayW.EditDelete:

```
Function EditDelete() As Boolean
   EditMode=3
   PropertyW.close
   EditW.show
   hide
   Return True

End Function
```

DisplayW.EditEditProfile:

```
Function EditEditProfile() As Boolean
   EditMode=1
   DataW.show
   hide

   Return True

End Function
```

DisplayW.EditModify:

```
Function EditModify() As Boolean
   EditMode=4
   PropertyW.close
```

```
  EditW.show
  hide
  Return True

End Function
```

DisplayW.FileNew:

```
Function FileNew() As Boolean
  dim i as integer

  if NumPlanets>0 then
    LMmsg="Save current file before creating a new file? If you don't save, current cha
    nges will be lost."
    for i=0 to 2
      LMoption(i)=true
    next
    LMCaption(0)="Don't Save"
    LMCaption(1)="Cancel"
    LMCaption(2)="Save"

    LMmsgW.ShowModal
  end If

  Select Case LMAnswer
  Case 0//don't save
    NumPlanets=0
    Changed=false
```

```
      NewSCRS
      close
   Case 1//cancel
      //do nothing
   Case 2//Save
      SaveSCRS
      NumPlanets=0
      Changed=false
      NewSCRS
      close
   End Select

   Return True

   Return True

End Function
```

DisplayW.FileOpen:

```
Function FileOpen() As Boolean
   dim i as integer
   LMAnswer=0
   if NumPlanets>0 then
      LMmsg="Save current file before opening a new file? If you don't save, current cha
      nges will be lost."
      for i=0 to 2
         LMoption(i)=true
```

```
    next
    LMCaption(0)="Don't Save"
    LMCaption(1)="Cancel"
    LMCaption(2)="Save"

    LMmsgW.ShowModal
  end If

  Select Case LMAnswer
  Case 0//don't save
    NumPlanets=0
    OpenSCRS
    SpaceGroups
    PrepareData
  Case 1//cancel
    //do nothing
  Case 2//Save
    SaveSCRS
    NumPlanets=0
    OpenSCRS
    PrepareData
  End Select

  Return True

  Return True

End Function
```

DisplayW.FileSave:

```
Function FileSave() As Boolean
   SaveSCRS
   Return True

End Function
```

DisplayW.FileSaveasPicture:

```
Function FileSaveasPicture() As Boolean
   PicSave
   Return True

End Function
```

DisplayW.CheckConflict:

```
Function CheckConflict(x as integer, y as integer, pSizeIndex as integer, CurrentGroup as in
teger, CGroupIndex as Integer) As Boolean
   //
   dim i, Lim,n, LastGroup as Integer
   dim dist, xdist, ydist as double
   Dim CombinedSize as integer
   LastGroup=CurrentGroup-1
   Lim=pGroupSize(LastGroup)
```

```
for i=1 to Lim
   n=pGroup(LastGroup,i)
   xdist=x-Planet(n).x
   ydist=y-Planet(n).y
   dist=SQRT(xDist*xdist+yDist*ydist)

   CombinedSize=pSize(Planet(n).Influence)+PSize(pSizeIndex)
   if  dist<(CombinedSize+12) then
      //MsgBox "CombinedSize="+str(CombinedSize)
      //MsgBox "Conflict with "+str(n)
      return true
   End if
next



if CurrentGroup=9 then// check group current-2 also
   LastGroup=CurrentGroup-2
   Lim=pGroupSize(LastGroup)

   for i=1 to Lim
      n=pGroup(LastGroup,i)
      xdist=x-Planet(n).x
      ydist=y-Planet(n).y
      dist=SQRT(xDist*xdist+yDist*ydist)

      CombinedSize=pSize(Planet(n).Influence)+PSize(pSizeIndex)
      if  dist<(CombinedSize+12) then
         //MsgBox "CombinedSize="+str(CombinedSize)
```

```
            //MsgBox "Conflict with "+str(n)
            return true
          End if
        next
    end if

    For i=CGroupIndex downto 1
        n=pGroup(CurrentGroup,i)
        xdist=x-Planet(n).x
        ydist=y-Planet(n).y
        dist=SQRT(xDist*xdist+yDist*ydist)
        CombinedSize=pSize(Planet(n).Influence)+PSize(pSizeIndex)
        if  dist<(CombinedSize+19) then
            //MsgBox "CombinedSize="+str(CombinedSize)
            //MsgBox "Conflict with "+str(n)
            return true
        End if
    next
End Function
```

DisplayW.CountpGroups:

```
Sub CountpGroups()
    dim i,n,g as integer

    for i=1 to NumPlanets

        Select Case planet(i).Orbit
```

```
Case 1//inner circle
   Select Case planet(i).Likeability

   Case 1//low likeability - group 3
      g=3
      n=pGroupSize(g)+1
      pGroupSize(g)=n
      pGroup(g,n)=i

   Case 2//med - group 2
      g=2
      n=pGroupSize(g)+1
      pGroupSize(g)=n
      pGroup(g,n)=i

   Case 3 //high likeability - group 1
      g=1
      n=pGroupSize(g)+1
      pGroupSize(g)=n
      pGroup(g,n)=i
   End Select
   g=3-planet(i).Likeability+1
   n=pGroupSize(g)+1
   pGroupSize(g)=n
   pGroup(g,n)=i
Case 2//med circle - group 4-6
   g=3-planet(i).Likeability+4
   n=pGroupSize(g)+1
```

```
        pGroupSize(g)=n
        pGroup(g,n)=i
      Case 3//outer circle groups 7-9
        g=3-planet(i).Likeability+7
        n=pGroupSize(g)+1
        pGroupSize(g)=n
        pGroup(g,n)=i

      End Select
  next
  //MsgBox "pGroupSize(3)="+str(pGroupSize(3))
End Sub
```

DisplayW.MakeClickPic:

```
Sub MakeClickPic()
  ClickPic=new Picture(cvs1.Width,cvs1.Height,32)



End Sub
```

DisplayW.MakeProfilePic:

```
Sub MakeProfilePic()
  Dim i, j, n, gs, CenterP, W, SunSize,PRadius, PS, Dist, ISL as Integer
  Dim pRadOffset(8) as Integer
  Dim  AngleOffset, AngInc as integer
  Dim gsX(0), gsY(0), LastgsX(0), LastgsY(0) as Integer
```

```
Dim InnerCircleSize as integer
Dim x,y,PAngle as double
Dim b as Boolean

ProfilePic= new picture(cvs1.width,cvs1.height,32)

SunSize=55
W=cvs1.Width
CenterP=W/2

ProfilePic.Graphics.ForeColor=LtBlue
ProfilePic.Graphics.FillOval (CenterP-SunSize,CenterP-SunSize,SunSize*2,SunSize*2)
ClickPic.Graphics.ForeColor=LtBlue
ClickPic.Graphics.FillOval (CenterP-SunSize,CenterP-SunSize,SunSize*2,SunSize*2)

ProfilePic.Graphics.ForeColor=Grey
ProfilePic.Graphics.DrawOval (2,2,W-4,W-4)//outer circle
ProfilePic.Graphics.DrawOval (68,68,W-136,W-136)//middle circle
ProfilePic.Graphics.DrawOval (CenterP/2-25,CenterP/2-25,CenterP+50,CenterP+50)//i
nner circle
InnerCircleSize=CenterP/2+25
ProfilePic.Graphics.DrawOval (CenterP-SunSize,CenterP-SunSize,SunSize*2,SunSize*2)

ProfilePic.Graphics.PenHeight=1
ProfilePic.Graphics.PenWidth=1
ProfilePic.Graphics.TextSize=14
ProfilePic.Graphics.DrawString ("Tertiary", CenterP-24,20)
ProfilePic.Graphics.TextSize=16
```

```
ProfilePic.Graphics.DrawString ("Secondary",CenterP-34,86)
ProfilePic.Graphics.TextSize=18
ProfilePic.Graphics.DrawString ("Primary", CenterP-30,CenterP/2-6)
if len(FirstName)<10 then
   ProfilePic.Graphics.TextSize=24
else
   ProfilePic.Graphics.TextSize=18
end if
ProfilePic.Graphics.ForeColor=rgb(0,0,0)
ISL=ProfilePic.Graphics.StringWidth(FirstName)
ProfilePic.Graphics.DrawString (FirstName,CenterP-isl/2,CenterP+6)
//end predraw



pRadOffset(0)=SunSize//add pSize  InnerCircle, most liked
pRadOffset(1)=133
pRadOffset(2)=223 //InnerCircleSize  Subtract PSize
pRadOffset(3)=227// InnerCircleSize+1//Add pSize
pRadOffset(4)=280 // MiddleCircleSize+(MiddleCircleSize-InnerCircleSize/2)/2 //subt
ract
pRadOffset(5)=330// MiddleCircleSize// subtract
pRadOffset(6)=332//add
pRadOffset(7)=364 // subtract
pRadOffset(8)=396//subtract


AngleOffset=330


For i=1 to 9// nine groups
```

```
gs=pGroupSize(i)

if i>6 then
   AngInc=360/(pGroupSize(7)+pGroupSize(8)+pGroupSize(9))
elseif i>3 then
   AngInc=360/(pGroupSize(4)+pGroupSize(5)+pGroupSize(6))
else
   if gs>1 then
      AngInc=360/gs//space planets evenly
   end if
end if
if gs>0 then
   for j=1 to gs
      n=pGroup(i,j)
      ProfilePic.Graphics.ForeColor=PColor(Planet(n).RValence )//color
      PS=pSize(Planet(n).Influence) //size
      Dist=(Planet(n).orbit-1) *3 + 3-Planet(n).Likeability
      PRadius=pRadOffset(Dist)

      Select Case Planet(n).Likeability
      Case 1
         PRadius=PRadius-PS
      Case 3
         PRadius=PRadius+PS
      end select


      PAngle=AngleOffset*pi/180
```

```
x=cos(PAngle)*PRadius
y=sin(PAngle)*PRadius

Planet(n).x=x
Planet(n).y=y

ProfilePic.Graphics.FillOval(CenterP+x-PS,CenterP+y-PS,PS*2,PS*2)
ProfilePic.Graphics.ForeColor=rgb(0,0,0)
ProfilePic.Graphics.DrawOval(CenterP+x-PS,CenterP+y-PS,PS*2,PS*2)
If Planet(n).Hollow then
   ProfilePic.Graphics.ForeColor=LightGrey
   ProfilePic.Graphics.FillOval(CenterP+x-PS*3/4,CenterP+y-PS*3/4,PS*
   1.5,PS*1.5)
end if
ClickPic.graphics.ForeColor=rgb(n,n,n)
ClickPic.graphics.FillOval(CenterP+x-PS,CenterP+y-PS,PS*2,PS*2)
AngleOffset=AngleOffset+AngInc

if planet(n).RValence<3 then
   if planet(n).Hollow then
      ProfilePic.Graphics.ForeColor=Black
   else
      ProfilePic.Graphics.ForeColor=White
   end if
else
   ProfilePic.Graphics.ForeColor=Black
end if
ProfilePic.Graphics.TextSize=12
```

```
      if len(planet(n).FirstName)>6 and Planet(n).Influence=1 then
         ProfilePic.Graphics.TextSize=9
      end if
      if len(planet(n).FirstName)>9 and Planet(n).Influence=2 then
         ProfilePic.Graphics.TextSize=9
      end if
      if len(planet(n).FirstName)>9 and Planet(n).Influence=1 then
         ProfilePic.Graphics.TextSize=7
      end if

      if planet(n).RFreq=7 then
         ProfilePic.Graphics.Italic=true
         ProfilePic.Graphics.Underline=True
         //ProfilePic.Graphics.Bold=True
      else
         ProfilePic.Graphics.Italic=False
         ProfilePic.Graphics.Underline=False
         //ProfilePic.Graphics.Bold=False
      end if

      ISL=ProfilePic.Graphics.StringWidth(Planet(n).FirstName)
      ProfilePic.Graphics.drawstring(Planet(n).FirstName,CenterP+x-ISL/2,Cent
      erP+y+6)

   next
End if
select case i
case 2
```

```
      AngleOffset=0
    case 3
      AngleOffset=205
    case 6
      AngleOffset=295
    else

      if i< 4 then
        AngleOffset=(AngleOffset+315) mod 360
      end if
    end select
  next

  ProfilePic.Graphics.TextSize=16
  ProfilePic.Graphics.ForeColor=rgb(0,0,0)

  ProfilePic.Graphics.DrawString(ClientInitials,w-150,20)
  ProfilePic.Graphics.DrawString(ProfileDate,w-150,40)
  ProfilePic.Graphics.DrawString(TherapistName,w-150,me.height-25)
End Sub
```

DisplayW.PrepareData:

```
Sub PrepareData()

  SpaceGroups
  ExtractInitials
  MakeClickPic
```

```
  MakeProfilePic
  cvs1.Backdrop=ProfilePic
End Sub
```

DisplayW.SpaceGroups:

```
Sub SpaceGroups()
  Dim i, j, NumInOrb, g as Integer
  Dim gSpot(3) as Integer
  Dim AngInc, gSpotInc, gSpotIndex, AngOffsset as Integer
  Dim Ang(0) as Double
  Dim AngSpot(0) as Integer

  Dim s as String

  For i=1 to 9
    pGroupSize(i)=0
  Next

  For i=1 to NumPlanets
    g=(planet(i).Orbit-1)*3+4-planet(I).Likeability

    //s=s+"Group for "+str(i)+"="+str(g)+chr(13)

    pGroupSize(g)=pGroupSize(g)+1
    pGroup(g,pGroupSize(g))=i
  Next
```

```
  NumInOrb=0

  For i=1 to 3// examine the three groups in the Inner Circle
    NumInOrb=NumInOrb+pGroupSize(i)
  Next

  's="Inner Circle members="+str(NumInOrb)
  'MsgBox s

  AngOffsset=-45// arbitrary starting point
  AngInc=360/NumInOrb// divide circle into as many spots as Inner Circle has member
  s
  For i=1 to 3
    gSpotInc=NumInOrb/pGroupSize(i)
    gSpotIndex=(gSpotIndex + gSpotInc) mod NumInOrb
    // if gSpot(gSpotIndex) is empty (=0) then fill the spot
    //else advance by 1 mod NumInOrb until an empty spot is found
    //End if
  Next
End Sub
ClickPic As Picture

DownX As Integer

DownY As Integer

pGroup(9,40) As Integer
```

pGroupSize(9) As Integer

PSize(3) As Integer

Stage As Integer

DisplayW Note: Alt Spacing

Alt Spacing

Count all Planets in each circle = Total
Inc=360/Total
Count Planets rated most influential=Inner Total
Use increments Total/InnerTotal
Mark those increments as taken
advance one increment until spot is free

Count Planets rated med influential=Med Total

loop
Use increments Total/MedTotal
if inc is free
Mark increment as taken
else
advance one increment until spot is free
repeat

Count Planets rated least influential=out Total

loop

Use increments Total/OutTotal

if inc is free

Mark increment as taken

else

advance one increment until spot is free

repeat

DisplayW Note: old cvs code

old cvs code

```
 'Select Case Stage
 'Case 0//draw
 '//Sample outer circle planet
 '//
 'g.ForeColor=PColor(6)
 'PAngle=(AngleOffset+AngInc*8)*pi/180
 'PRadius=364//SunSize+PSize Inner circle, most influential and most likeable
 'x=cos(PAngle)*PRadius
 'y=sin(PAngle)*PRadius
 'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
```

```
'g.ForeColor=PColor(1)
'//**********************
'//1
'g.ForeColor=PColor(9)
'PAngle=(AngleOffset+AngInc)*pi/180
'PRadius=SunSize+PSize// Inner circle, most influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'g.ForeColor=PColor(1)
'//g.DrawString ("S.R.",CenterP+x-PSize+14,CenterP+y-PSize+48)
'//3
'g.ForeColor=PColor(8)
'PAngle=(AngleOffset+AngInc*3)*pi/180
'PRadius=SunSize+(InnerCircleSize-SunSize/2)/2//Inner circle, most influential  and medi
um likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'//6
'g.ForeColor=PColor(7)
'PAngle=(AngleOffset+AngInc*6)*pi/180
'PRadius=InnerCircleSize-PSize-3//Inner circle, most influential  and least likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'//4
'g.ForeColor=PColor(6)
```

```
'PAngle=(AngleOffset+AngInc*4)*pi/180
'PRadius=SunSize+mPSize//Inner circle, medium influence and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'//7
'g.ForeColor=PColor(5)
'PRadius=SunSize+(InnerCircleSize-SunSize/2)/2
'PAngle=(AngleOffset+AngInc*7)*pi/180
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'//9
'g.ForeColor=PColor(4)
'PAngle=(AngleOffset+AngInc*9)*pi/180
'PRadius=InnerCircleSize-mPSize-3
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'//8
'g.ForeColor=PColor(3)
'PAngle=(AngleOffset+AngInc*8)*pi/180
'PRadius=SunSize+sPSize
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'//5
'g.ForeColor=PColor(2)
```

```
'PAngle=(AngleOffset+AngInc*5)*pi/180
'PRadius=SunSize+(InnerCircleSize-SunSize/2)/2
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'//2
'g.ForeColor=PColor(1)
'PAngle=(AngleOffset+AngInc*2)*pi/180
'PRadius=205//inner, least influence least likeable
'PRadius=InnerCircleSize-sPSize-3
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)

//*************************************************************************
//*************************************************************************
//Secondary
'
'g.ForeColor=PColor(9)
'PAngle=0*pi/180
'PRadius=263//SunSize+PSize Med circle, most influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'g.ForeColor=PColor(8)
'PAngle=30*pi/180
'PRadius=281//SunSize+PSize Med circle, most influential and med likeable
```

```
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'g.ForeColor=PColor(7)
'PAngle=60*pi/180
'PRadius=300//SunSize+PSize Med circle, most influential and least likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'g.ForeColor=PColor(6)
'PAngle=90*pi/180
'PRadius=255//SunSize+PSize Med circle, med influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(5)
'PAngle=120*pi/180
'PRadius=281//SunSize+PSize Med circle, med influential and med likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(4)
'PAngle=150*pi/180
'PRadius=307//SunSize+PSize Med circle, med influential and least likeable
```

```
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(3)
'PAngle=180*pi/180
'PRadius=248//SunSize+PSize Med circle, low influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'
'g.ForeColor=PColor(2)
'PAngle=210*pi/180
'PRadius=281//SunSize+PSize Med circle, low influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'
'g.ForeColor=PColor(1)
'PAngle=240*pi/180
'PRadius=316//SunSize+PSize Med circle, low influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'
'//*************************************************************************
'//*************************************************************************
'//Tertiary
```

```
'
'
'PSize=24
'sPSize =12
'mPSize=18
'
'g.ForeColor=PColor(9)
'PAngle=290*pi/180
'PRadius=358//SunSize+PSize out circle, most influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'g.ForeColor=PColor(8)
'PAngle=310*pi/180
'PRadius=365//SunSize+PSize out circle, most influential and med likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'g.ForeColor=PColor(7)
'PAngle=330*pi/180
'PRadius=372//SunSize+PSize out circle, most influential and least likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-PSize,CenterP+y-PSize,PSize*2,PSize*2)
'
'
```

```
'
'g.ForeColor=PColor(6)
'PAngle=0*pi/180
'PRadius=352//SunSize+PSize out circle, med influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(5)
'PAngle=30*pi/180
'PRadius=365//SunSize+PSize out circle, med influential and med likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(4)
'PAngle=60*pi/180
'PRadius=378//SunSize+PSize out circle, med influential and least likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-mPSize,CenterP+y-mPSize,mPSize*2,mPSize*2)
'
'g.ForeColor=PColor(3)
'PAngle=90*pi/180
'PRadius=346//SunSize+PSize out circle, low influential and most likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
```

```
'
'g.ForeColor=PColor(2)
'PAngle=120*pi/180
'PRadius=365//SunSize+PSize out circle, low influential and med likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'
'g.ForeColor=PColor(1)
'PAngle=150*pi/180
'PRadius=384//SunSize+PSize out circle, low influential and med likeable
'x=cos(PAngle)*PRadius
'y=sin(PAngle)*PRadius
'g.FillOval(CenterP+x-sPSize,CenterP+y-sPSize,sPSize*2,sPSize*2)
'
'End Select
```

DisplayW Control cvs1:

```
Sub Open()
   me.Left=0
   me.Top=0
   me.Width=Width// full size
   me.Height=Height

   PSize(1)=20
   PSize(2)=26
   PSize(3)=32
```

```
End Sub

Function MouseDown(X As Integer, Y As Integer) As Boolean
  dim n, side as Integer
  dim c as color
  dim CenterClick as Boolean



  if n<20 then//click, not drag
    c=ClickPic.Graphics.Pixel(x,y)
    if c=LtBlue then
      CenterClick=true
    else
      CurrentRIndex=c.Red
    end if


    if CenterClick=true then
      CCommentW.Show
    else
      if CurrentRIndex>NumPlanets then
        CurrentRIndex=0
      else
        If Keyboard.AsyncCommandKey then
          EditMode=4
          RelationshipW.show
```

```
            PropertyW.close
        else
            //MsgBox "CurrentRIndex="+str(CurrentRIndex)
            if x<cvs1.width/2 then//left side
                PropertyW.left=x+30+left
            else
                PropertyW.left=x-PropertyW.Width-20+left
            end if
            if y<cvs1.Height/2 then//top
                PropertyW.top=100+top
            else
                PropertyW.top=-75+cvs1.height-PropertyW.Height+top
            end if
            PropertyW.show
        end if
    end if
  end if
end if


End Function
```

DisplayW Control Timer1:

```
Sub Action()
  TextArea1.visible=true
End Sub
End Class
```

Class LMmsgW

Inherits Window

LMmsgW.Open:

```
Sub Open()
   dim i as Integer
   for i=0 to 2
      if LMoption(i) Then
         pb(i).Visible=true
      end if
   next

   TextArea1.text=LMmsg

End Sub
```

LMmsgW Control Canvas1:

```
Sub Paint(g As Graphics)
   g.DrawCautionIcon 0,0
End Sub
```

LMmsgW Control PB:

```
Sub Action()
   LMAnswer=index
   Close
End Sub
End Class
```

Class PropertyW

Inherits Window

PropertyW.Moved:

```
Sub Moved()
   Dim S as String
   Dim n as Integer
   //MsgBox "CurrentRIndex="+str(CurrentRIndex)
   if CurrentRIndex>0 then
      n=CurrentRIndex
      s=Planet(n).Name+chr(13)+chr(13)
      s=s+Planet(n).Relationship+chr(13)
      s=s+Planet(n).OrbitStr+chr(13)
      s=s+Planet(n).InfluenceStr+chr(13)
      s=s+Planet(n).LikeStr+chr(13)
      s=s+Planet(n).RValStr+chr(13)
      s=s+"Known for "+Planet(n).RLenStr+chr(13)
```

```
    s=s+"Interacts "+Planet(n).RFreqStr
    TA1.Text=S
    TA2.Text=Planet(n).OptComment
    TA3.Text=Planet(n).TherapistComment
    title=Planet(n).Initials+" Details"

  End if
End Sub
```

PropertyW Control TA2:

```
Sub TextChange()


  if CurrentRIndex>0 then
    planet(CurrentRIndex).OptComment=me.text
    Changed=true
  End if

End Sub
```

PropertyW Control TA3:

```
Sub TextChange()
  if CurrentRIndex>0 then
    planet(CurrentRIndex).TherapistComment=me.text
    Changed=true
  End if
```

```
End Sub
End Class
```

Class DataW

Inherits Window

DataW.Open:

```
Sub Open()
   dim d as date
   if EditMode=1 then
      DateTF.text=ProfileDate
      DateTF.ReadOnly=false

      ClientTF.text=ClientName
      TherapistTF.text=TherapistName
   else
      d= new date
      DateTF.text=d.ShortDate
      ProfileDate=d.ShortDate
   end if
End Sub
```

DataW Control OKPB:

```
Sub Action()
   Dim i, L  as integer
   Dim S, c as string
   If EditMode=1 then
      ClientName=ClientTF.text
      ProfileDate=DateTF.text
      TherapistName=TherapistTF.text
      Changed=true
      DisplayW.Show
      hide
   Else
      If len(ClientTF.text)=0 or len(TherapistTF.text)=0 then
         msgbox "Please enter both Client and Therapist names."
      else
         ClientName=ClientTF.text
         TherapistName=TherapistTF.text
         PeopleW.Show
         hide
      end if
   End If
End Sub
End Class
```

Class AddW

```
Inherits Window
```

AddW.Deactivate:

```
Sub Deactivate()
   NameTF.text=""
End Sub
```

AddW Control OKPB:

```
Sub Action()
   if len(NameTF.text)>0 then
      NumPlanets=NumPlanets+1
      redim planet(NumPlanets)
      planet(NumPlanets)=new PlanetClass
      planet(NumPlanets).name=NameTF.text
      changed=true
      RelationshipW.show
      hide
   else
      msgbox "Please type a name or press Cancel."
   end if
End Sub
```

AddW Control CancelPB:

```
Sub Action()
   DisplayW.Show
   hide
```

```
End Sub
End Class
```

Class EditW

```
Inherits Window
```

EditW.Open:

```
Sub Open()
  dim i as Integer
  if EditMode=3 then
    title="Delete Relationship"
    PU1.AddRow "Choose the relationship you wish to delete."

  else
    title="Modify Relationship Parameters"
    PU1.AddRow "Choose the relationship you wish to edit."
  end if

  for i=1 to NumPlanets
    PU1.AddRow Planet(i).Name
  next
  PU1.ListIndex=0
End Sub
```

EditW.DeleteName:

```
Sub DeleteName()
   dim c, n as Integer
   c=CurrentRIndex
   n=NumPlanets
   Planet(c).Hollow=Planet(n).Hollow
   Planet(c).Influence=Planet(n).Influence
   Planet(c).Likeability=Planet(n).Likeability
   Planet(c).Name=Planet(n).Name
   Planet(c).OptComment=Planet(n).OptComment
   Planet(c).Orbit=Planet(n).Orbit
   Planet(c).Relationship=Planet(n).Relationship
   Planet(c).RValence=Planet(n).RValence
   Planet(c).OrbitStr=Planet(n).OrbitStr
   Planet(c).LikeStr=Planet(n).LikeStr
   Planet(c).InfluenceStr=Planet(n).InfluenceStr
   Planet(c).RValStr=Planet(n).RValStr
   Planet(c).RLen=Planet(n).RLen
   Planet(c).RLenStr=Planet(n).RLenStr
   Planet(c).RFreq=Planet(n).RFreq
   Planet(c).RFreqStr=Planet(n).RFreqStr

   NumPlanets=NumPlanets-1
   Changed=true


End Sub
```

EditW Control PU1:

```
Sub Change()
   if PU1.ListIndex>0 then
      CurrentRIndex=PU1.ListIndex
      if EditMode=3 then
         DeleteName
         DisplayW.show
      else
         RelationshipW.show
      end if
      close
   else
      MsgBox "Make a choice or press Cancel"
   end if
End Sub
```

EditW Control OKPB:

```
Sub Action()
   if PU1.ListIndex>0 then
      CurrentRIndex=PU1.ListIndex
      if EditMode=3 then
         DeleteName
         DisplayW.show
      else
         RelationshipW.show
```

```
    end if
    close
  else
    MsgBox "Make a choice or press Cancel"
  end if
End Sub
```

EditW Control CancelPB:

```
Sub Action()
  DisplayW.Show
  Close
End Sub
End Class
```

Class CCommentW

```
Inherits Window
```

CCommentW.Open:

```
Sub Open()
  TA1.text=GenClientComment
  Title="Comments for "+ClientName
End Sub
```

CCommentW Control TA1:

```
Sub TextChange()
   GenClientComment=me.text
   Changed=true
End Sub
End Class
```