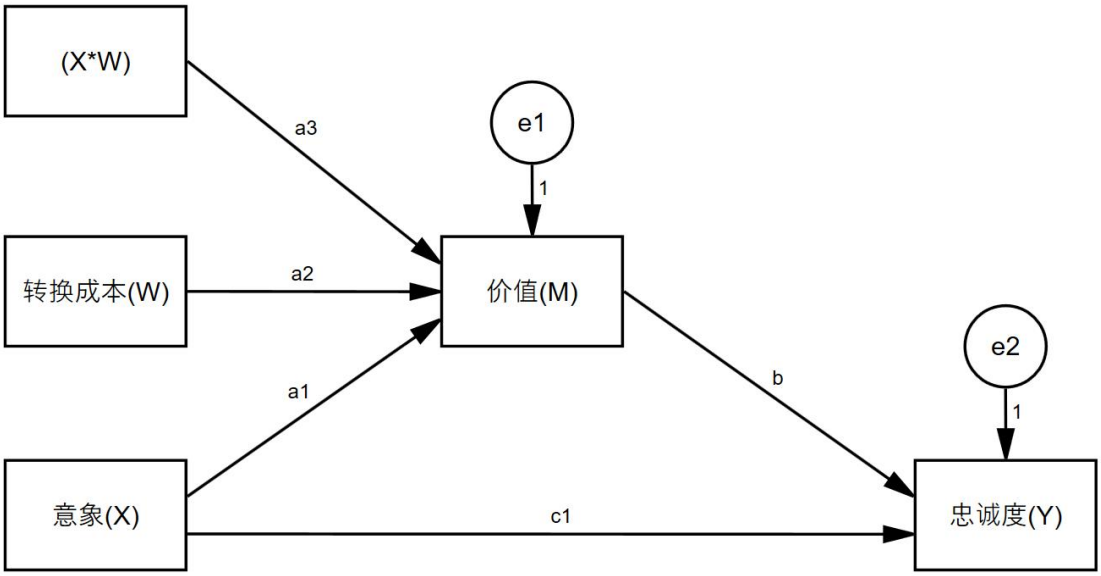
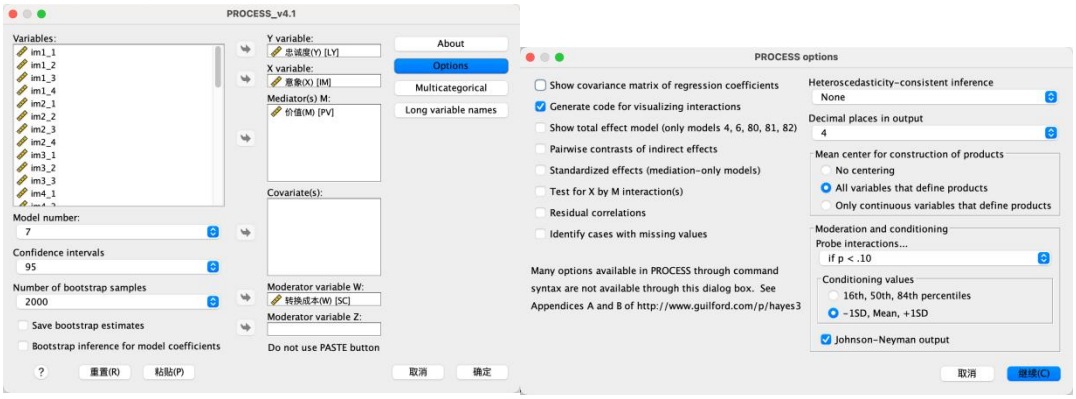
条件过程分析（Conditional Process Analysis）



一、 Process 实现过程

1. Process 设置



2. 分析结果

2.1 模型分析结果

2.1.1 Model Summary Outcome Varaiable:PV

	coeff	se	t	p	LLCI	ULCI
constant	5.0045	0.0641	78.0287	<0.001	4.8783	5.1306
IM	0.3457	0.0703	4.9158	<0.001	0.2074	0.4840
SC	0.1760	0.0479	3.6757	<0.001	0.0819	0.2702
Int_1	−0.1151	0.0543	−2.1217	0.0345	−0.2219	−0.0084
R=0.3103,R-sq=0.0963,F(df1,df2)=12.8913(3,363)***						
R2-chng=0.112,F(df1,df2)=4.5014(1,363)*						

Note:Int_1=IM*SC

2.1.2 Model Summary Outcome Varaiable:LY

	coeff	se	t	p	LLCI	ULCI
constant	3.1655	0.2162	14.6428	<0.001	2.7404	3.5906
IM	0.2183	0.0586	3.7232	<0.001	0.103	0.3336
PV	0.3498	0.0418	8.3648	<0.001	0.2676	0.432

R=0.4696,R-sq=0.2205,F(df1,df2)=51.4955(2,364)***

2.1.3 Direct And Indirect Effects of X ON Y

Indirect effects of X on Y:IM->PV->LY

Moderater(SC)	Indirect effect	S.E.	LLCI	ULCI
-1.3411	0.1749	0.0495	0.0805	0.2767
0.000	0.1209	0.0316	0.0623	0.1885
1.3411	0.0669	0.0329	0.0031	0.1325

Direct effect of X on Y

Direct effect	S.E.	t	p	LLCI	ULCI
0.2183	0.0586	3.7232	0.0002	0.1030	0.3336

Index of moderated mediation

	Index	BootSE	BootLLCI	BootULCI
	-0.0403	0.0207	-0.0801	-0.0011

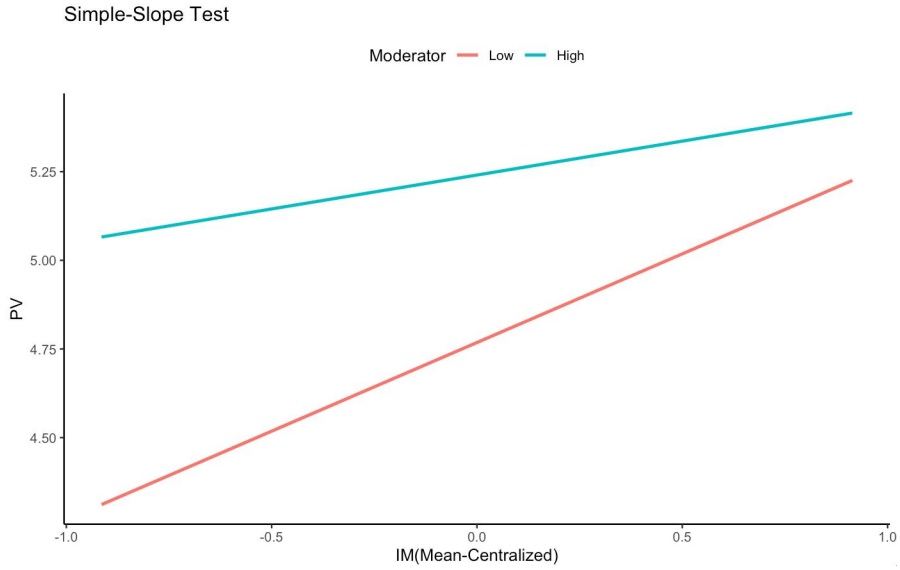
二、 R语言可视化过程

1.简单斜率检验

1.1 R Script

```
Moderator <- factor(plot_dzx$SC,levels = c(1,2),labels = c("Low","High"))
ggplot(data = plot_dzx,aes(x = IM,y = PV)) +
  geom_line(size = 1,aes(color = Moderator)) +
  ggtitle("Simple-Slope Test") +
  xlab("IM(Mean-Centralized)") +
  theme_classic() +
  theme(legend.position = "top")
```

1.2 Plot

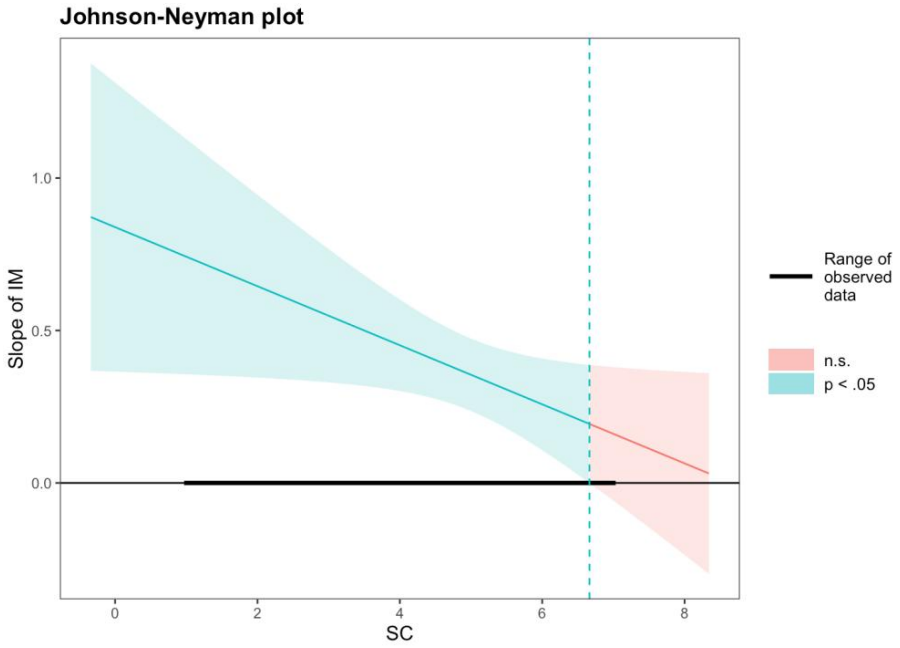


2.Johnson-Neyman Plot

2.1 R Script

```
fit <- lm(LY ~ IM + SC + IM*SC,data = consumer)
johnson_neyman(model = fit,pred = IM,modx = SC,digits = 4)
```

2.2 Plot



Note:When SC is **OUTSIDE** the interval [6.6635, 75.0675], the slope of IM is p < 0.05.