error effects

$$\sqrt{1 - R^2}$$

explained variance

`summary(sem.fit, rsq = T)`

error variance

$$1 - R^2$$

`summary(sem.fit)` # look for Variances:

1

Supplementary to Solution
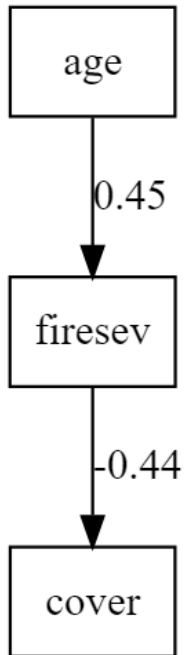
Fig. 1

Fig. 2

```
> anova(sem_fit1, sem_fit2)
Chi-Squared Difference Test
```

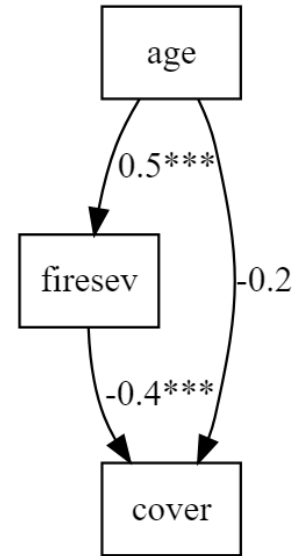|	Df	AIC	BIC	Chisq	Chisq diff	Df diff	Pr(>Chisq)	
sem_fit2	0	359.4	371.9	0.0000				
sem_fit1	1	360.7	370.7	3.2974	3.2974	1	0.06939	.

We select **model 1** (simpler model) because adding link to the model (as shown on fig 2) did not significantly improved the fit. This means that the more complex model (sem_fit2) is NOT significantly more accurate than the simpler model sem_fit1 as our `Pr(>Chisq)` is larger .05