

# module2graphsandPCA

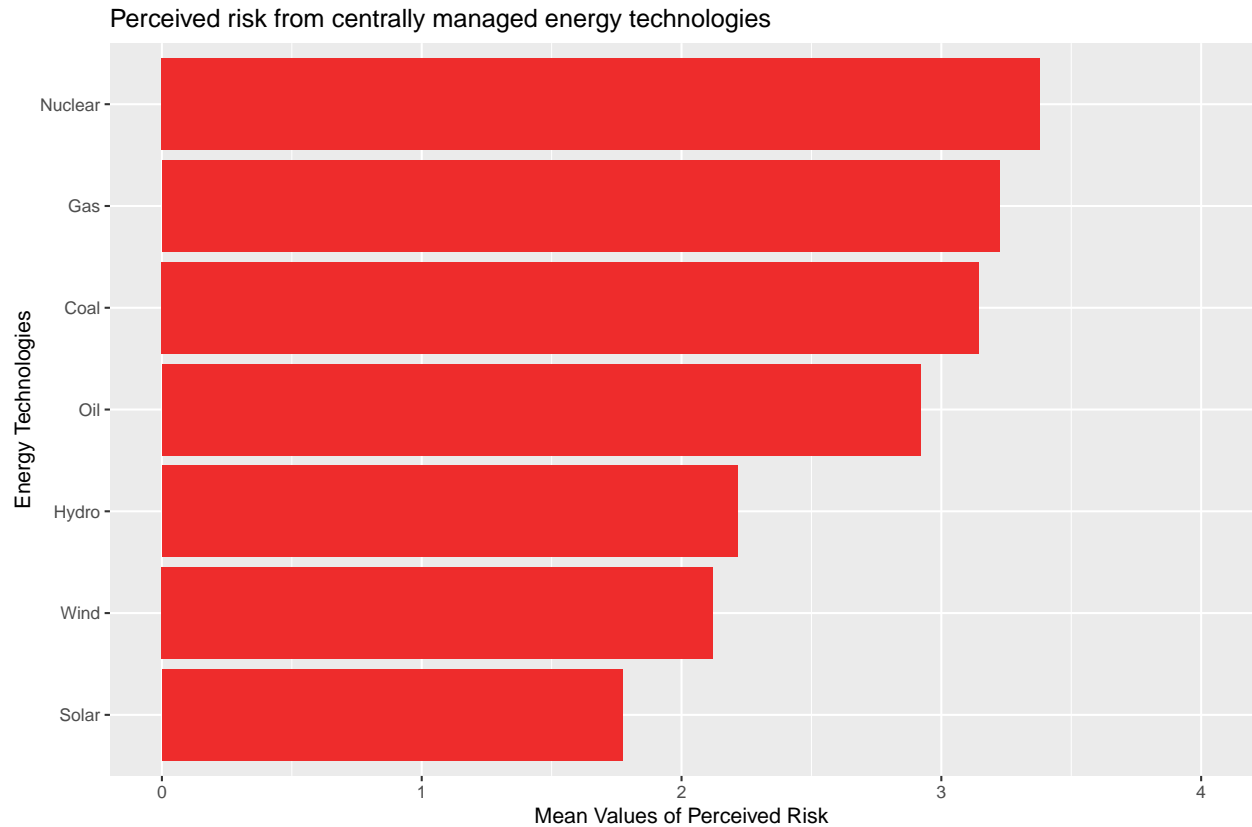
## Contents

0.1	Original Dataset . . . . .	2
0.2	Coded Dataset . . . . .	2
0.3	Q1. Below is a list of various centrally managed sources of energy. How risky are each of these energy technologies according to you? Please tell me whether you see each technology as: not at all risky, slightly risky, moderately risky, very risky, or extremely risky . . . . .	2
0.4	Q2. Following is a list of various individually or community-owned and managed sources of energy. How risky are each of these energy technologies according to you? Please tell me whether you see each technology as: not at all risky, slightly risky, moderately risky, very risky, or extremely risky. . . . .	3
0.5	Q3. Following is a list of centrally managed sources of energy. How beneficial are each of these according to you? Please tell me whether you see each technology as: not at all beneficial, slightly beneficial, moderately beneficial, very beneficial, or extremely beneficial? . . . . .	4
0.6	Q4. Following is a list of various individually or community owned and managed sources of energy. How beneficial are each of these according to you? Please tell me whether you see each technology as: not at all beneficial, slightly beneficial, moderately beneficial, very beneficial or extremely beneficial ? . . . . .	5
0.7	Principal Component Analysis on Kahan et al (2007) scale . . . . .	7
0.8	PCA on the economic -political values of the perceiver . . . . .	7
0.9	PCA on eco-pol characteristics of the technology - Solar Energy . . . . .	9
0.10	PCA on eco-pol characteristics of the technology - Nuclear Energy . . . . .	11

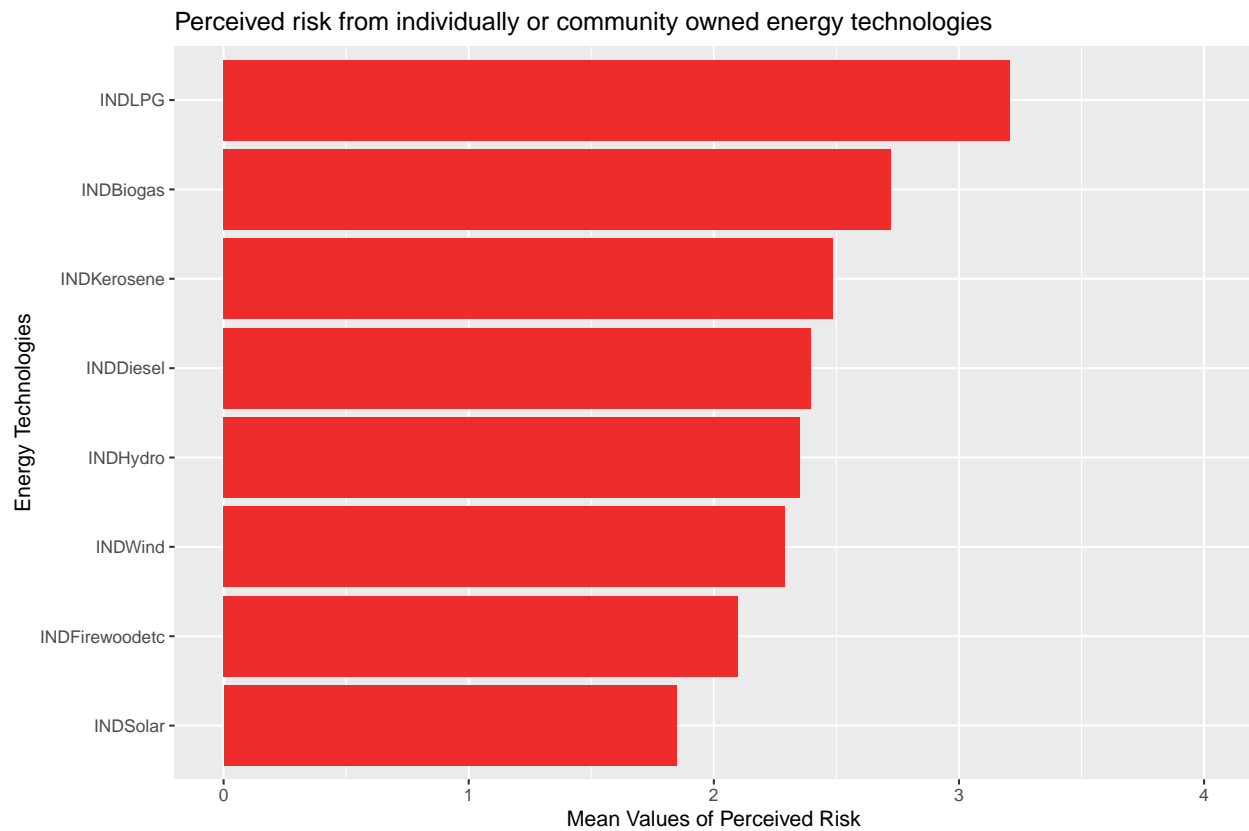
### 0.1 Original Dataset

### 0.2 Coded Dataset

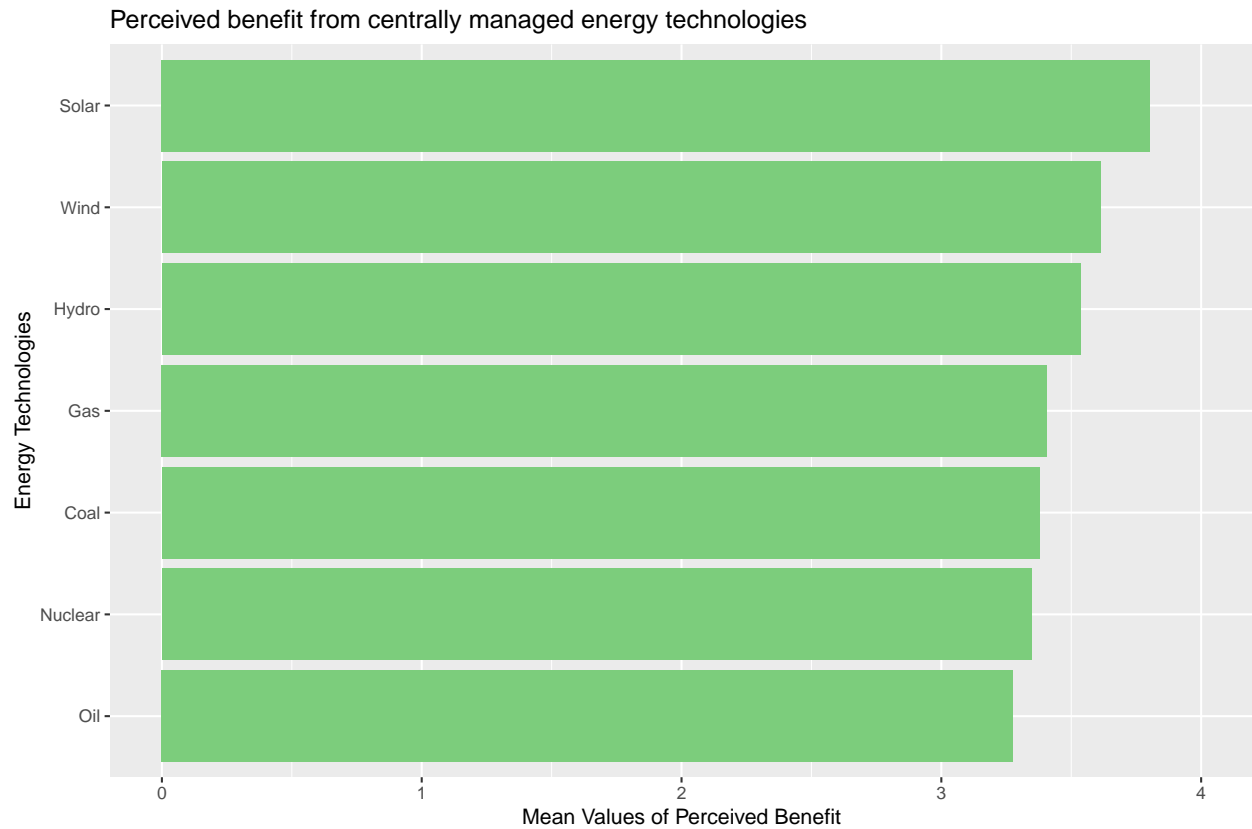
0.3 Q1. Below is a list of various centrally managed sources of energy. How risky are each of these energy technologies according to you? Please tell me whether you see each technology as: not at all risky, slightly risky, moderately risky, very risky, or extremely risky



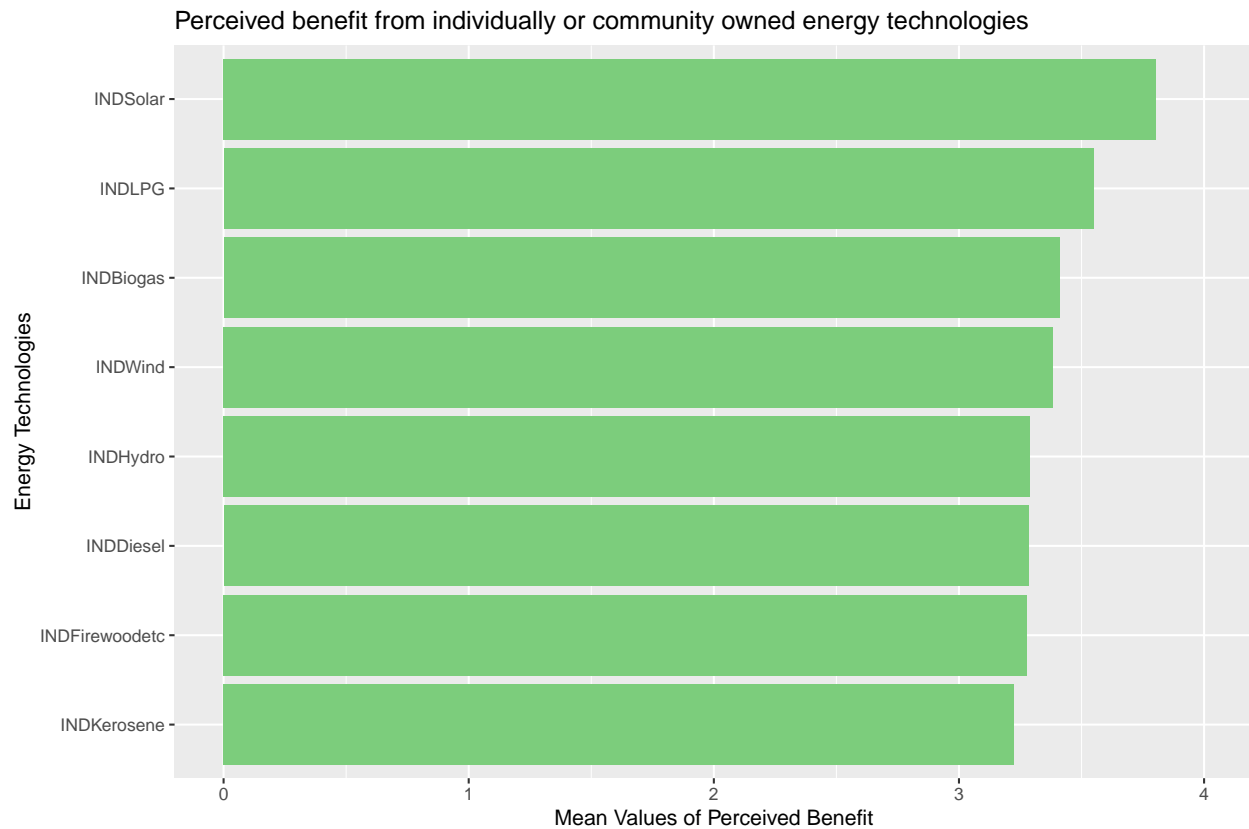
0.4 Q2. Following is a list of various individually or community-owned and managed sources of energy. How risky are each of these energy technologies according to you? Please tell me whether you see each technology as: not at all risky, slightly risky, moderately risky, very risky, or extremely risky.



0.5 Q3. Following is a list of centrally managed sources of energy. How beneficial are each of these according to you? Please tell me whether you see each technology as: not at all beneficial, slightly beneficial, moderately beneficial, very beneficial, or extremely beneficial?

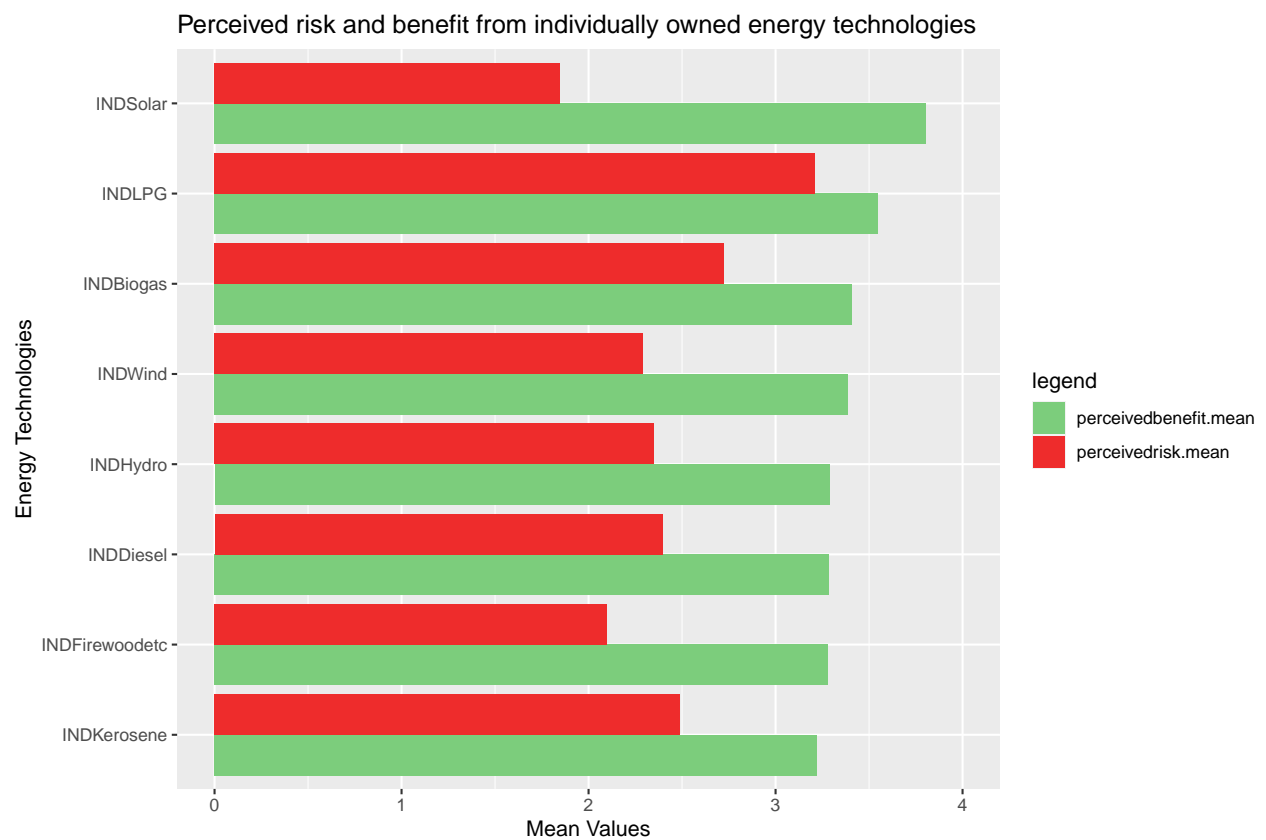
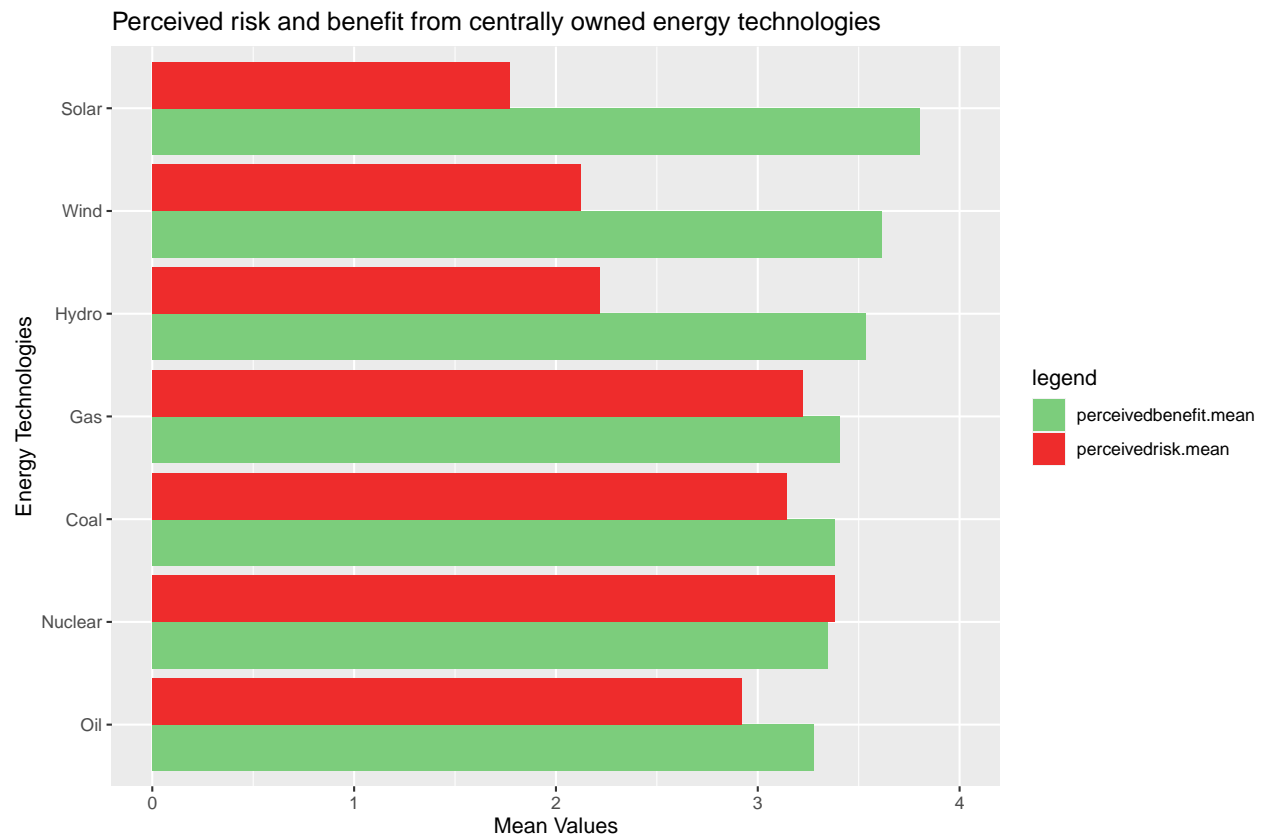


0.6 Q4. Following is a list of various individually or community owned and managed sources of energy. How beneficial are each of these according to you? Please tell me whether you see each technology as: not at all beneficial, slightly beneficial, moderately beneficial, very beneficial or extremely beneficial ?



```
## [1] "factor"
```

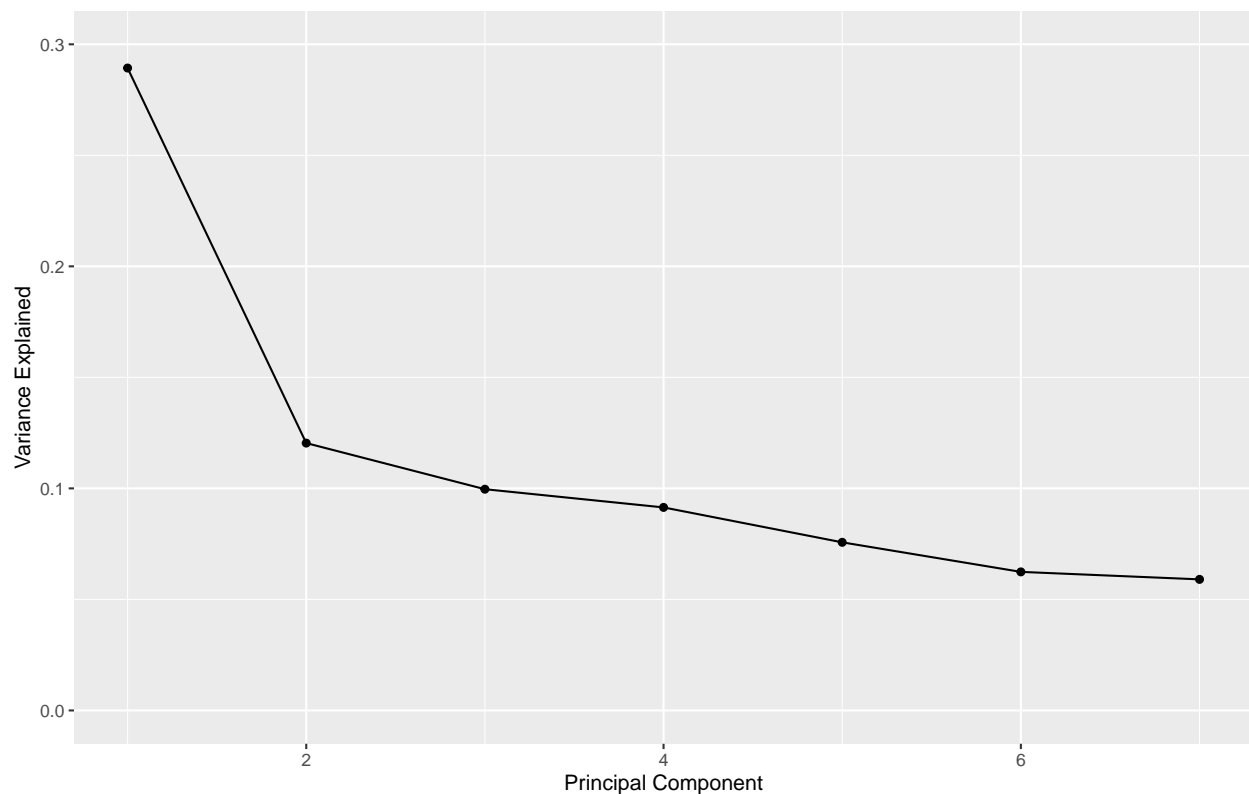
```
## [1] "perceivedbenefit.mean" "perceivedrisk.mean"
```



## 0.7 Principal Component Analysis on Kahan et al (2007) scale

- **K\_IINTRFER** The government interferes far too much in our everyday lives.
- **K\_IPRIVACY** The government should stop telling people how to live their lives.
- **K\_SHARM** Sometimes the government needs to make laws that keep people from hurting themselves.
- **K\_IPROTECT** It's not the government's business to try to protect people from themselves.
- **K\_SLIMCHOI** The government should put limits on the choices individuals can make so they don't get in the way of what's good for society.
- **K\_SPROTECT** The government should do more to advance society's goals, even if that means limiting the freedom and choices of individuals.
- **K\_HEQUAL** We have gone too far in pushing equal rights in this country.
- **K\_HREVDIS1** Nowadays it seems like there is just as much discrimination against upper castes as there is against Dalits.
- **K\_EDISCRIM** Discrimination against minorities is still a very serious problem in our society.
- **K\_ERADEQ1** We need to dramatically reduce inequalities between the rich and the poor.
- **K\_EWEALTH** Our society would be better off if the distribution of wealth was more equal.
- **K\_ERADEQ2** We need to dramatically reduce inequalities between men and women.

Scree Plot



## 0.8 PCA on the economic -political values of the perceiver

- **DECISIONDECEN** Local politicians shouldn't have to ask permission from the central government to implement policies
- **DECISIONCEN** Laws and policies would be implemented more smoothly if more power lay with the central government.
- **SYSTEMTOTAL** It is good to have a strong leader who does not have to bother with elections.
- **SYSTEMTECHNO** Experts, not the government, should make decisions according to what they think is best for the country.
- **SYSTEMDEMO** It is very important to have a democratic political system because it ensures that

no individual leader has too much power.

- **SYSTEMRELIGION** There should be a system governed by religious law.
- **INDUSTRYSMALL** Large corporations are destroying the local industries in India and benefiting only a handful of people.
- **INDUSTRYLARGE** Large scale industries are required for the development of the country that will benefit everyone
- **ECONOMYLOCAL** India would be better off if foreign companies didn't come to here
- **ECONOMYGLOBAL** Foreign companies have led to a range of benefits for the Indian people and society
- **DEVOVERENV** Economic growth and creating jobs should be prioritized over environmental protection
- **ENVOVERDEV** Polluting industries that spoil the environment should be shut down even if it costs people their jobs
- **OWNERPVT** All businesses and industries should be owned privately
- **OWNERPUB** The government should own most large businesses and industries
- **OWNERREG** Regardless of ownership, the government should pass strong regulations and implement them
- **OWNERNOREG** There is too much red-tape and the government should not interfere with businesses and industries
- **WEALTHLIM** A limit should be put to how much wealth a person can amass
- **MECHANISATION** Rapid mechanization of work is taking away jobs from workers in this country

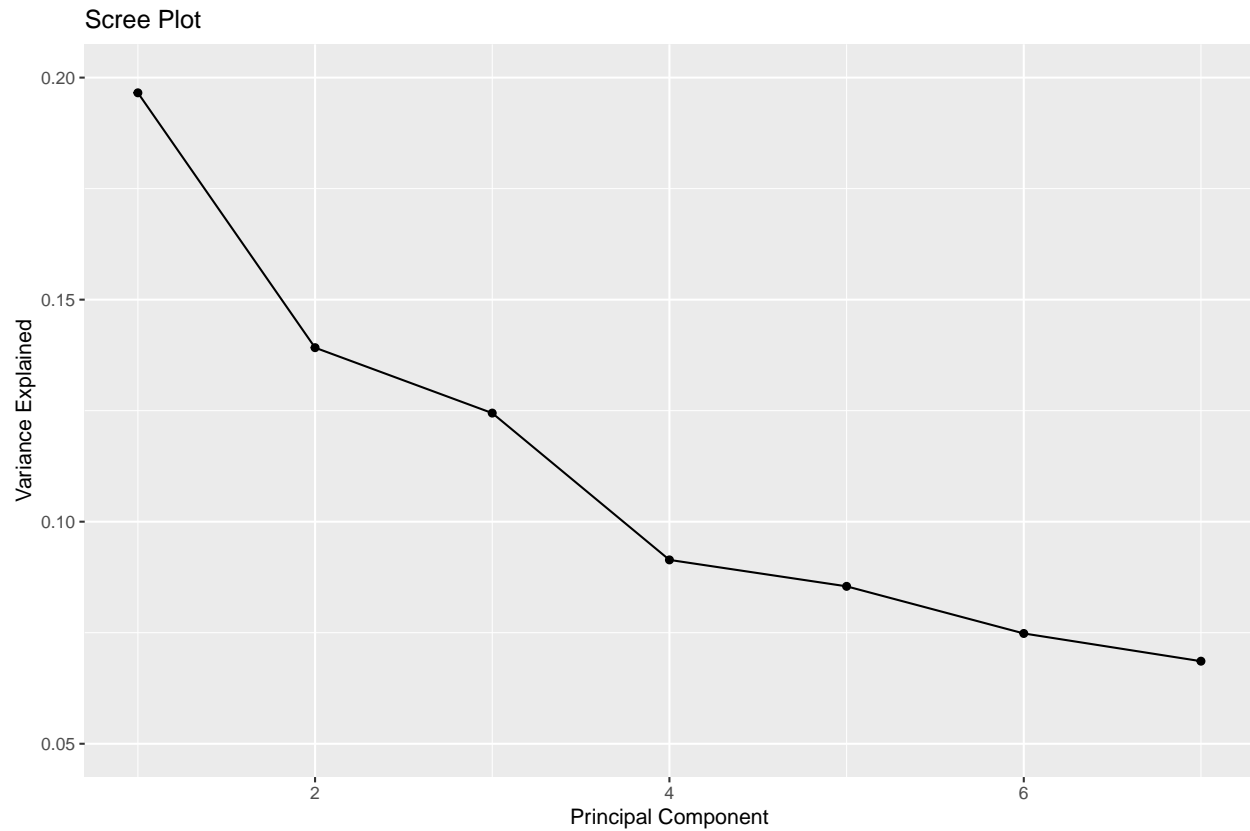
## Importance of components:

##	PC1	PC2	PC3	PC4	PC5	PC6	PC7
## Standard deviation	1.4705	1.2373	1.1700	1.0027	0.96948	0.90729	0.86862
## Proportion of Variance	0.1966	0.1392	0.1245	0.0914	0.08545	0.07483	0.06859
## Cumulative Proportion	0.1966	0.3358	0.4602	0.5516	0.63706	0.71189	0.78048

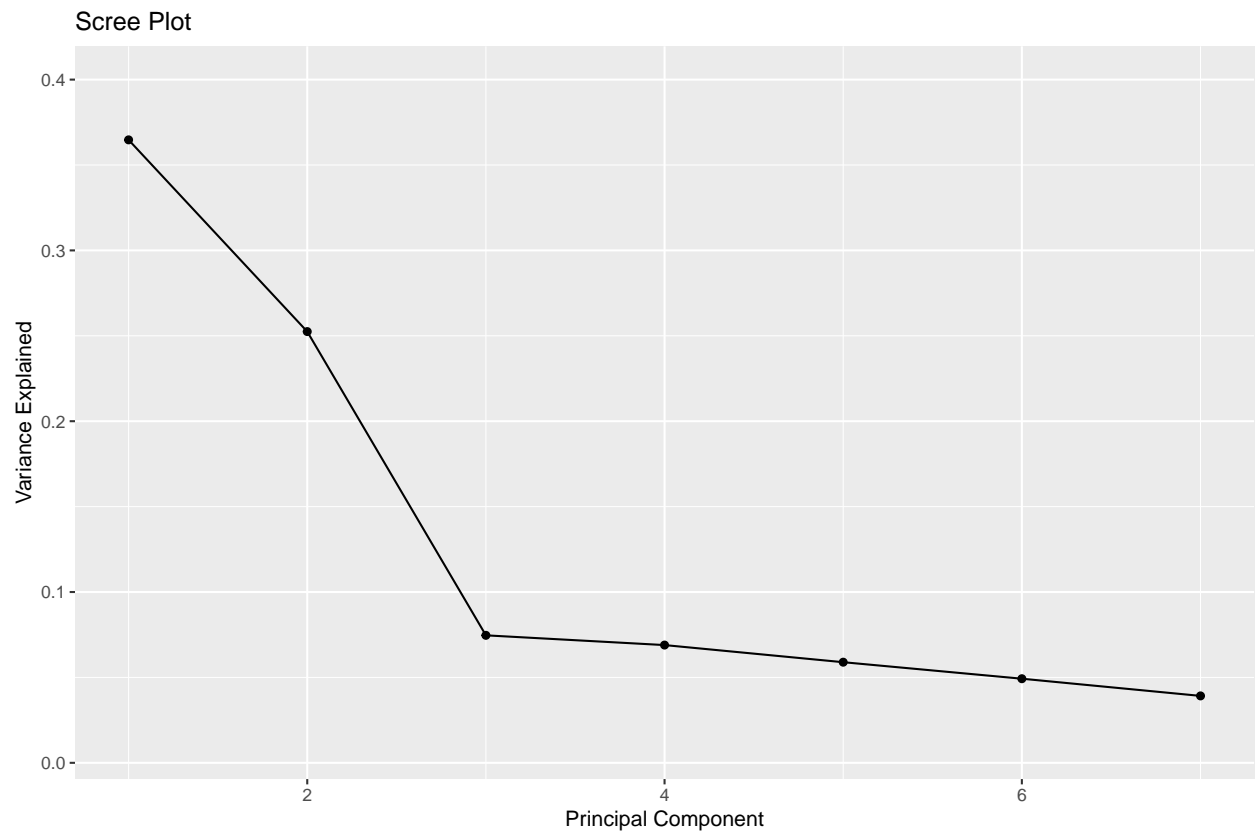
##	PC8	PC9	PC10	PC11
## Standard deviation	0.83091	0.80331	0.78471	0.68059
## Proportion of Variance	0.06276	0.05866	0.05598	0.04211
## Cumulative Proportion	0.84325	0.90191	0.95789	1.00000





## 0.9 PCA on eco-pol characteristics of the technology - Solar Energy

- **DISPLACESOLAR** Solar energy is leading to displacement of people from their land
- **POLLUTESOLAR** Solar energy increases pollution of air/water/land
- **HEALTHSOLAR** Solar energy poses a great risk to the health of people living around it
- **JOBBSOLAR** Solar energy will bring jobs to the local community
- **BEAUTYSOLAR** Solar energy spoils the natural beauty of the landscape
- **PRIDESOLAR** I would be proud if my community used solar energy
- **NPRIDESOLAR** Solar energy is a mark of pride for our nation
- **DEVSOLAR** Solar energy pushes forward the country's development
- **PROSPERSOLAR** Solar energy brings economic prosperity to the surrounding regions
- **RELYSOLAR** I don't like the idea that I have to rely on the government for electricity from (large scale) solar energy



## 0.10 PCA on eco-pol characteristics of the technology - Nuclear Energy

