

An Introduction to Selectorate Theory

POSC 1020 – Introduction to International Relations

Steven V. Miller

Department of Political Science



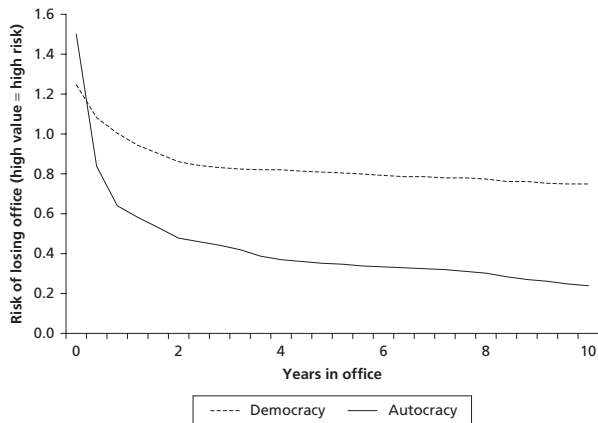
Goal for Today

1. *Introduce students to selectorate theory.*
2. *Familiarize students with basic mathematical thinking.*

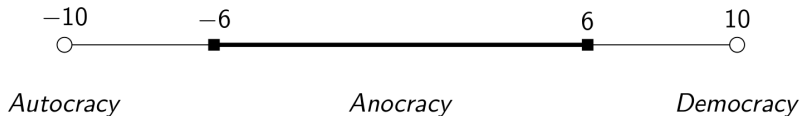
A Puzzle: How Do We Explain This?

FIGURE 1.1

Risk of Being Removed from Office Depending on Years in Office



Standard View of Regime Type, ala the Polity Project



Bueno de Mesquita's Representation of State Type

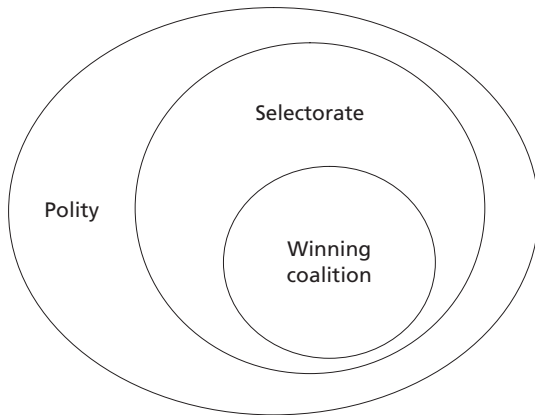
The author sees states and state types differently.

- All states have citizens, the polity (N).
- The **selectorate** (S) is a subset of the citizens.
 - The selectorate has at least a nominal say in choosing the leader.
 - In the U.S. example, this is all eligible voters.
 - The disenfranchised = $N - S$.
- The **winning coalition** (W) is a subset of the selectorate.
 - The winning coalition is responsible for keeping the leader in power.
 - If the composition of W changes, the leader changes.
 - In democracies, W is typically 50%+1 of eligible voters.

A Representation of Selectorate Theory

FIGURE 1.2

The Selectorate and the Winning Coalition



Retaining Office

Recall our core assumption about leader incentives.

- So how do leaders do this?

Simple: providing goods.

- Leaders provide a combination of public/private goods for tenure.
- **Public goods**: nonexcludable, nonrival; everyone benefits from them.
- **Private goods**: excludable and rivalrous; only W gets them.

Finding the Right Combination

All leaders of all political systems produce both public and private goods.

- The mix varies with selection institutions.

As W increases, the leader sees more value in providing public goods.

- Bribing a lot of people is rather expensive.

When W is small, the leader provides more private goods.

- It's why the Kim family can starve out 24-million people when only 9-250 people (basically: military elites) need private rewards.

W/S: The Loyalty Norm

We can classify states by type depending on the ratio W/S .

- Size of winning coalition/size of selectorate.
- Assumption: $W \leq S$
- States with large W/S are what we would call democracies.

W/S is what the author calls a **loyalty norm**. It captures how loyal a W member is to the leader.

- Formally, it is the probability of being included in any future winning coalition.
- The smaller W/S , the *more* loyal the W member should be.

When Does a Winning Coalition Member Defect?

There is some math upcoming, so let's introduce some variables first:

- x = public goods; g = private goods
- W = winning coalition; s = selectorate
- W/S = loyalty norm (Assumption: $W \leq S$)
 - Formally: the probability of being included in a future winning coalition.
- δ = discount factor (Assumption: $0 \leq \delta \leq 1$)
 - This is a “discounted” payout over repeated trials of a game.
 - Important if a player prefers a payout now vs. a payout in the future.
 - Higher values of δ mean player cares more about future payouts.
- $\frac{1}{1-\delta}$: standardized payout over infinity trials.
 - i.e. $1 + 1\delta + 1\delta^2 + 1\delta^3 + \dots 1\delta^\infty = \frac{1}{1-\delta}$

When Does a Winning Coalition Member Defect?

This is a simple expected utility calculation.

$$EU(W_i|Loyal) = \frac{1}{1-\delta} \left(x + \frac{g}{W} \right) \quad (1)$$

$$EU(W_i|Defect) = \frac{1}{1-\delta} \left[\frac{W}{S} \left(x + \frac{g}{W} \right) + 1 - \frac{W}{S} (x) \right] \quad (2)$$

Very simply: when does W_i choose to defect?

- What else does W_i consider in her decision to defect or remain loyal?

W/S: A Simple Illustration

Assume a leader has this system: $S = 1,000,000$; $W = 100$.

- The leader has \$1 billion at her disposal to retain her office.

What could the leader do to retain office?

W/S: A Simple Illustration

The leader could divide that pie: \$10-million per W member.

- If W member (W_i) wants more, there's a .01% chance he could get a better deal and a 99.99% chance he gets nothing.
- i.e. $W/S = \frac{100}{1000000} = \frac{1}{10000} = .0001$

His expected utility for defection is \$1,000.

- $EU(W_i|Defect) = .0001(1000000) + .9999(0) = 1000$

Should the leader just spend \$10 million per W member and call it a day?

W/S: A Simple Illustration

Recall: this is a strategic problem.

- The leader should see W_i 's strategic weakness.
 - i.e. W_i is easily replaceable in a winning coalition.

If the leader offers every W member at least as much as W_i could gain on average from defection, she can secure her office.

- i.e. The leader retains tenure if $U(W_i|Loyal) \geq EU(W_i|Defect)$.

Thus, the leader offers every W member \$1,000 and retains the rest for a slush fund.

W/S: Another Illustration

Assume a leader has this system: $S = 1,000,000$; $W = 500,001$.

- The leader again has \$1 billion at her disposal to retain her office.

What happens if the leader tries to divide the pie: \$2,000 per W member?

W/S: Another Illustration

If W_i wants more, there's a 50% (rounded) chance he gets a better deal.

- Expected value for defection: \$1,000
 - $EU(W_i|D) = .5(2000) + .5(0) = 1000$
- Doesn't seem appealing, does it?

Under these conditions, it is inexpensive for W_i to support a challenger.

- It's also impractical to buy all W members with private rewards.
- Private rewards are spread more thinly and can less easily compensate failed *public* policies.

A New Way of Thinking about IR

Leaders do not benefit equally from peace and prosperity.

- Large W : good policy and low private goods improve survival.
 - Bad public policies adversely affect tenure.
 - Because W/S is large, the cost of defection is low.
- Small W : good policy is bad politics.
 - Best survival prospects: small W/S (defection is risky, costly).

The likelihood a leader survives in office despite failed policies increases as W/S decreases.

Implications

Large- W leaders:

- High levels of cooperation
- Stable foreign relations
- Leader change has little effect

Relations with small- W leaders:

- Leaders care less about successful foreign policy (and public goods overall).
- Leader change leads to a new coalition and changes in policy, i.e. policy volatility.

Table of Contents

Introduction

Introducing Selectorate Theory

Retaining Office

When Does a W Member Remain Loyal?

An Illustration of W/S

Conclusion and Implications