

Marc Bühlmann\*, Adrian Vatter, Oliver Dlabac and  
Hans-Peter Schaub

# Liberal and Radical Democracies: The Swiss Cantons Compared

**Abstract:** This article examines the widespread hypothesis that German-speaking Swiss cantons exhibit radical-democratic characteristics, while the Latin cantons possess stronger liberal-representative democratic profiles. Empirical and multi-dimensional measuring of the quality of democracy in the cantons shows that this hypothesis does not do the complexity of cantonal democracy justice. Today's position of the cantons along the axes of liberal and radical democracy is best explained with reference to the strong liberal and democratic constitutional movements within the cantons during the middle of the 19<sup>th</sup> century.

**Keywords:** measuring the quality of democracy; liberal democracy; radical democracy; Switzerland; path dependence (Erblast hypothesis).

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## 1 Introduction

A key concern of empirical research on democracy is to assess and compare different types of political regimes. Measuring democracy plays a prominent role. Its origins lie in the works of Lipset (1959) and Dahl (1956) and have been continued and developed in numerous other studies (for a summary see: Lauth 2004; Pickel and Pickel 2006). The existing empirical works distinguish themselves noticeably in that they focus almost exclusively on the national level while the subnational level is practically ignored. This gap in the research

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**\*Corresponding author: Marc Bühlmann**, Institute of Political Science, University of Bern, Switzerland, e-mail: marc.buehlmann@ipw.unibe.ch

**Adrian Vatter and Hans-Peter Schaub:** Institute of Political Science, University of Bern, Switzerland

**Oliver Dlabac:** Department of Political Science, University of Zurich, Switzerland

cannot be filled by simply transferring national democracy measurements onto subnational entities for at least two reasons. Firstly, the existing measurements cannot explain the variation in the quality of democracy across subnational entities, particularly in federal systems (Kropp et al. 2008). Secondly, existing measurements almost entirely disregard direct-democratic settings which are more widely used at the subnational than the national level. In order to understand the Swiss political system, which will be more closely analysed below, an analysis of the cantons is important given that this was where modern Swiss democracy developed (Kölz 2004: p. 41). We argue that an examination of the varying quality of complex democratic decision-making structures in Switzerland is only possible through comparatively applied analyses of cantonal systems. These, in turn, have to be based on suitable and newly developed measurements of democracy.

The Swiss cantons like to be considered ideal “research laboratories” (Vatter 2002, 2006; Freitag 2005; Selb 2006; Bühlmann et al. 2009a) where different political institutions, with varying impacts on political conduct and public policy, can be reviewed. There are a number of projects concentrating on cantonal patterns of democracy as defined by Lijphart’s dimensions of power sharing and their effects (Vatter 2002, 2007; Vatter and Freitag 2006, 2007). However, there is no literature that deals with the many facets of the quality of Swiss cantonal democracy, as is generally the case in international comparative research. Furthermore, there is currently no comparative longitudinal analysis of cantonal democratic systems that covers a greater period. Existing studies on patterns of cantonal democracy have, as a rule, not considered all 26 cantons, often excluding the smaller and/or *Landsgemeinde* cantons on the basis of their special characteristics. The goal of this article is to fill these gaps and present a theoretical and empirically-founded analysis of the democratic patterns and dimensions in all Swiss cantons. The multi-dimensional qualities of democracy in the cantons will be measured and analysed through a newly developed measuring instrument using expansive data. Our dual instrument is based on a democracy concept that simultaneously arranges liberal-representative and radical-participatory models of democracy into ideal types. Whereas the radical-participatory type comprises well-developed participatory options including radical participation, public accountability and the widest possible inclusion, the liberal type distinguishes itself through the emphasis on constitutional-legal guarantees and strong horizontal-institutional as well as predominantly vertical-electoral controls. Both ideal types are distinguished by several dimensions, the characteristics of which were measured in the cantons at different points in time.

Building on this new measuring instrument, the focus of this article is the empirical examination of the widespread language-cultural hypothesis of democracy-typical differences between the Latin and German-speaking cantons (Kriesi and Wisler 1996; Vatter 2002; Linder 2005, 2010; Freitag 2006; Ladner and Bühlmann 2007; Stadelmann-Steffen and Freitag 2011). Existing research assumes that the German-speaking cantons are characterized primarily by direct-democratic and participatory elements, while the Latin cantons are more liberal-representative oriented. In our article we present an alternative explanation for this hypothesis and test – based on the political *Erblast* hypothesis (Rose and Davies 1994) – whether the particular constitutional movements during the emergence of cantonal democratic regimes in the mid-19<sup>th</sup> century have left traces in the cantons today and whether they are the cause for the different cantonal patterns of democracy.

In the next section, we explain the measuring concept used to test the two concurrent hypotheses. The theoretical derivation and empirical examination of the two alternative explanations for the different implementations of democracy will be dealt with in Sections 3 and 4, with conclusions presented in Section 5.

## 2 Liberal and Radical Democracies – A Dual Concept of Measurement

Research in the field of the empirical investigation of democracy has recently expanded: measuring democracy no longer focuses solely on measuring the differences between democracies and autocracies, but increasingly also on the evaluation of the quality of established democratic systems (Bühlmann et al. 2012a,b). To this end one of the central requirements is the provision of a coherent concept of democracy as a basis for measuring democracy. There are already several proposals for the measurement of the quality of democracy (Bühlmann et al. 2009b); however these lack the inclusion of instruments of direct democracy (Altman 2013), and also fail to analyse subnational entities.

Swiss cantons are distinguished in international comparison in that they provide citizens with highly developed means for direct participation (Vatter 2002, 2006). An instrument that is able to adequately measure the subnational quality of democracy in the cantons must incorporate this participatory element and be based on a sufficiently broad concept of democracy (Bühlmann et al. 2009b). Such a concept is developed through two basic channels of democratic thought which have particularly shaped the Swiss cantons: the liberal and the

radical models of democracy.<sup>1</sup> While the liberal model is based on constitutionally guaranteed freedom rights, separation of powers and representation, the radical model of democracy strives for the maximum direct participation of all citizens in public consensus-building proceedings and direct-democratic decision-making (Held 2006). The dual measuring instrument presented in this article combines the central aspects of both democratic models, important both in theory and in the Swiss environment, and thereby allows their simultaneous measurement. The relevant criteria for measuring the quality of democracy are determined by the requirements of particular democratic concepts. Three central dimensions of democratic quality each derive from the liberal and radical theoretical traditions. This deduction represents the first step in conceptualising the measuring instrument. The six dimensions are more precisely defined by various components in further deductive steps, and these components are then measured using subcomponents and indicators. We next examine the theoretical foundation of the six dimensions and their components (cf. also Table 1).

## 2.1 Liberal Dimensions of Democracy

The underlying liberal-democratic model is based on Locke's liberal constitutionalism, Montesquieu's separation of powers, and the idea of direct government responsibility vis-à-vis the electorate pursuant to Bentham, James Mill, and John Stuart Mill. Variations of these three dimensions run throughout liberal-democratic theory and have become key factors in theoretical and empirical research on democracy. In connection with *liberal constitutionalism*, freedom rights as well as aspects of the rule of law are discussed and measured. With regard to the separation of powers, the focus is on the concept of *horizontal accountability*, while governmental responsibility vis-à-vis the electorate is discussed in terms of *electoral accountability*. An explanation of these three dimensions follows.

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<sup>1</sup> The terms “radical” and “liberal” simultaneously refer to debates on the development of federal and cantonal citizens' rights which, in 19<sup>th</sup> century Switzerland, were predominantly under the control of the liberal and radical (and later on the democrat) wings of the liberal party (cf. Kölz 1992; Vatter 2002). Gruner (1977: 75f) positions the liberal wing's ideological roots alongside the ideas of Benjamin Constant in that what is required is a strong representative democracy and heavy restrictions on the state in favour of the, above all, economically independent individual. By contrast, radicalism, heavily influenced by Ignaz Paul Troxler, holds citizens above every constitutional legislative authority. Radicals called for universal suffrage and the citizens' right to demand a review of the constitution at an early stage.

Table 1: Dimensions, Components and Subcomponents of the Multidimensional Measuring Instrument.

Liberal dimensions	Components	Subcomponents	Radical dimensions	Components	Subcomponents
Liberal constitutionalism	Individual freedom	Freedom rights	Radical Participation	Extended electoral rights	Direct popular elections
		Property rights			Possibility of recall
		Acceptance of laws and regulations			Rights of initiative and referendum
		Limited scope of the state			Other direct democracy instruments
	Rule of law	Supremacy of the law		Use of direct democracy competencies	Frequent ballots
		Legal equality			Financial and perceived municipal autonomy
	Strength of parliament versus government	Protection of minorities	Public Accountability	Transparent political processes	Constitutional municipal autonomy
		Independence			Transparency of parliament and communication by authorities
		Supervisory powers			Transparency of government and courts
		Legislative powers			
Power sharing in parliament	Regulations to support power sharing				
	Strength of the opposition				
Judicial independence	Separation from executive and legislature			Media	Legal frameworks for the media

(Table 1: Continued)

Liberal dimensions	Components	Subcomponents	Radical dimensions	Components	Subcomponents
Electoral accountability	Independent controlling instances	Personal independence	Inclusion	Extra-institutional participation	Use of the media Constitutional protection of extra-institutional participation Participatory culture
		Professionalization			
		Organizational independence			
		Administrative jurisdiction			
		Constitutional review			
	Secret elections	Independent supervisory authorities	Inclusion	Equal political involvement	Universal suffrage Equal use of voting rights Minimal resources
		Free, secret, and regular elections			
	Competition	Electoral vulnerability in government	Inclusive representation	Minority-friendly electoral system Representation of parties in parliament Voluntary proportional representation Proportional representation of socio-structural groups	
		Electoral vulnerability of incumbents			
		Electorate's readiness to change their party vote			

### 2.1.1 Liberal Constitutionalism

As the first dimension of the liberal-democratic model, liberal constitutionalism consists of two components. These were cemented in Locke's (1963 [1689]) concept of constitutionalism whereby government authorities must be impersonal and constitutionally restricted to protect individual freedom:

1. *Individual freedom.* Over time, liberal traditional thought has extended the catalogue of demands for individual freedom rights. While Locke (1963 [1689]), in his theory of a social contract, acts on the assumption of a pre-state right to life, freedom, and property, Bentham (1960 [1776], 1843 [1831]) and James Mill (1937 [1820]) maintain that the freedoms of press, speech and association are instruments against corruption. Finally, John Stuart Mill (1859) highlights the right to one's own personal life. These freedoms presuppose, from a liberal perspective, a limit to the influence of the state. It is this limitation that ensures the utilitarian idea of free transactions between individuals (Mill 1937 [1820]; Bentham 1960 [1776]). The effective protection of these freedoms depends on the extent to which democratically applied laws and regulations are accepted and complied with by individual citizens (Beetham 2004).
2. *Rule of law.* Locke insists that without restrictions on authority, tyranny will ensue (1963 [1689], ch. 18). Montesquieu (1994 [1748]) supports a system of positive legislation that sets inviolable boundaries for actions of the state to limit despotism and corruption. So that democracy does not revert to the "tyranny of the majority" (Tocqueville 2006 [1835]), basic human and minority rights must be placed out of reach of majority decision-making (Diamond and Morlino 2004; O'Donnell 2004). The basis of inviolable national justice implies formal as well as material legal obligations of the state. With the principle of legal equality (Montesquieu 1994 [1748]), equal access to the courts and equal treatment in the eyes of the law is required (Beetham 2004).

### 2.1.2 Horizontal Accountability

The idea of the separation of powers is an early and fundamental component of liberal-democratic theory. The control of government and adherence to constitutional principles must be secured through a mutual balance of power. In modern research on democracy, separation of powers is studied through the concept of *horizontal accountability* – the second dimension of the liberal-democratic type used here. Through a network of relatively autonomous institutions, authorities

mutually control each other and make a commitment to act both lawfully and constitutionally (O'Donnell 1994: p. 61; Schedler 1999: pp. 14–18). Horizontal accountability is measured using the following four components:

1. *Strength of parliament versus government.* Locke (1963) [1689]) emphasizes that only the separation of power between the executive and the legislative branches guarantees that both are subordinate to the law, rather than being allowed to pursue private interests. The idea of checks and balances later became the core of the *Federalist Papers* (Hamilton et al. 1788: Art 47–51). Current research on democracy also emphasizes the need for a strong parliament capable of keeping the reins on government (Beetham and Boyle 1995: pp. 66–74).
2. *Power-sharing within parliament.* In modern representative democracies, the relationship between the executive and the legislative is co-determined in a decisive way by power-sharing arrangements within parliament and the strength of the opposition (Altman and Pérez-Liñan 2002).
3. *Judicial independence.* An independent judiciary is essential for the security of individual rights and prevention against oppression (Montesquieu 1994 [1748]: Book XI, Ch. 6). Madison (Hamilton et al. 1788: Art 51) also demands professional, politically independent courts; a concept incompatible with the election of judges and term-of-office restrictions.
4. *Independent controlling instances.* Abuse of government power is ultimately restricted in that political decisions are subject to judicial and constitutional review (Hayek 1960). To prevent corruption and despotism, it is further necessary that the state apparatus is controlled by an independent administrative court. Additional “agencies of protection” like auditing commissions, anti-corruption authorities or Ombudsmen can further protect the rights of citizens against abuses of power (Beetham 2004: pp. 68, 71; Diamond and Morlino 2005: p. xxi).

### 2.1.3 Electoral Accountability

In the liberal tradition of political thought, the state is the creator of laws for individuals who entrust themselves to the power of government in order to implement citizens' objectives (Locke 1963 [1689]: pp. 308, 395). At the same time, a liberal-democratic model relies on the delegation of power to representatives as a proven tool against the danger of a tyranny of the majority (Hamilton et al. 1788: Art. 10): whereas citizens allow themselves to be guided by their own interests, representative institutions offer a place for professional deliberation. In this way, democracies confront the question of how



citizens' representatives can be held accountable. The solution is provided by secret and competitive elections that guarantee a responsive legislature (Bentham 1843 [1831]: p. 47). Contemporary research on democracy examines this problem under the heading of "electoral accountability," understood as the relationship of accountability between rulers and voters (O'Donnell 2004). This third dimension of liberal democracy is conceptualized by five different components:

1. *Free, secret and regular elections.* Regularly held elections are equal to a sanctioning mechanism, forcing representatives to consider the will of voters in order to be re-elected. In this way, ballot secrecy should guarantee that citizens can express their preferences free from undue influence.
2. *Competition.* Supported by Bartolini (1999, 2000), different facets of electoral competitions can be differentiated from one another. The electoral race in democratic elections requires a system as open as possible to new competitors ("contestability"), while the elections themselves should be as competitive as possible ("electoral vulnerability").
3. *Electoral availability.* Bartolini (1999, 2000) further suggests that an important factor of competition, and a condition for electoral accountability, is "electoral availability," meaning the fundamental willingness of voters to change their party preference.
4. *Clarity of responsibility.* So that the electorate can consider sanctioning current public officials, a clear assignment of responsibilities is needed. However, where there is a large number of coalition partners, that is no longer the case (Powell and Whitten 1993: pp. 399–400).
5. *Governmental autonomy.* A functioning relationship of accountability between government and voters assumes not only that regular elections act as (potential) sanctions, but also that governments possess a certain action autonomy. So that the chain of responsibility comes full circle, governments must be able to implement democratically made decisions. To do this, governments require not only protection against attempts by illegitimate interests to exert influence (cf. Merkel 2004), but also a certain degree of sovereignty over other levels of the state as well as over protests and blocking attempts by citizens themselves (Pitkin 1967).

## 2.2 Radical Dimensions of Democracy

The radical-democratic model, the second pillar of our dual measuring strategy, is based on participatory and at times deliberative theories of democracy as summarized by Cohen and Fung (2004) under the heading of "radical

democracy.”<sup>2</sup> The origins of radical theories of democracy stem from ancient Athenian’s public voting by show of hands, Rousseau’s republicanism, and Marxist democratic theory (cf. Held 2006: pp. 5, 187). Like the liberal tradition above, the radical tradition of thought can equally be understood as having three key dimensions: radical participation, public accountability, and inclusion.

### 2.2.1 Radical Participation

According to radical-democratic theory, active participation in public life promotes self-fulfilment and the development of civic virtues. Significant value is placed on the political participation of individuals (Pateman 1970: pp. 25, 43; Macpherson 1977: pp. 114–115; Barber 1984: pp. 117–162, 232). Diverse and comprehensive participatory mechanisms are therefore required (Pateman 1970; Barber 1984: p. 272), described in turn by the following four components:

1. *Extended electoral rights.* Although radical democrats are sceptical of the delegation of competencies from citizens to representative organs (Rousseau 1762: pp. 235–239; Barber 1984: pp. 145–147), they generally accept that a pure system of direct-democratic self-government would exceed citizens’ resources (e.g. Barber 1984: p. 267). Insofar as delegation is inevitable, citizens must entrust powers of control and, if need be, of sanction to their representatives. Not only members of the legislative but also those of the executive and judicative should be chosen through direct popular vote. Moreover, a recall of representatives should also be possible.
2. *Direct democracy.* The enabling of more refined forms of direct-democratic participation and the power of citizens even in-between elections is regarded as very important in the radical model. Citizens must have the power to both correct the decisions of their representatives and place new concerns onto the agenda (Macpherson 1983: p. 132; Barber 1984: pp. 281–289; cf. also Rousseau 1762).
3. *Use of direct democracy.* The effective and regular use of formal participatory rights is necessary to achieve the goals of individual self-realization and collective self-government.
4. *Local self-government.* According to radical thought, self-government is best achieved where citizens are most directly affected and where they can have

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<sup>2</sup> Participatory and deliberative theories of democracy are also presented by Schmidt (2010: pp. 236–253), for example, as characteristics of a collective stream (cf. also Saward 2001 and Fung 2006).

the most direct influence. That is why strong local autonomy is a central requirement of participatory democratic theory (Macpherson 1977: p. 108; Barber 1984: pp. 267–273).

### 2.2.2 Public Accountability

From a radical-democratic perspective, elections and the separation of powers alone are not enough for citizens to effectively hold their representatives to account; additional mechanisms of public discourse as well as informal means of participation are required (Smulovitz and Peruzzotti 2000: pp. 149, 151; Young 2000: pp. 153, 173–177; Lauth 2004). Public accountability, the second dimension of radical democracy, is summarized by way of three components:

1. *Transparency.* Information about political processes is a central requirement for accountability. The easier it is to obtain such information, the more transparently the political process is implemented and presented and the more likely it is that the public can enter into a meaningful debate with the political elite and hold them to account (cf. Beetham 1994: p. 37; Diamond and Morlino 2004; Schmitter 2005).
2. *Media.* Public debate as a central component of functioning public accountability should not only be conducted between authorities and citizens but should also take place within an active public environment. Independent and varied media create a platform for different views so that no one is excluded (cf. Cohen 1989: pp. 22–23; Voltmer 2000). Furthermore, as “watchdogs” or a “fourth estate,” the media can take on an autonomous control function (Peruzzotti and Smulovitz 2006). How much citizens benefit from varied and critical media ultimately depends on the extent to which they are actually utilized.
3. *Extra-institutional participation.* Even extra-institutional forms of participation can be channels for the registration of preferences and can put decision-makers who behave unresponsively under pressure (Smulovitz and Peruzzotti 2000: pp. 151–152; Young 2001). A broad and constitutionally secure participatory culture with politically active citizens and strong civil society organizations not only enriches public debate, but also allows for additional control over public officials (cf. Pateman 1970; Macpherson 1977: pp. 98–114; Barber 1984: pp. 264–266; Beetham 1994: pp. 29–30; Young 2000: p. 153; Merkel 2004: pp. 46–47; Peruzzotti and Smulovitz 2006: pp. 10–12).

### 2.2.3 Inclusion

The third and final dimension of the radical model of democracy focusses on the equality of all individuals. All those affected by decisions are regarded as equally legitimated and able to take part in the decision-making process (cf. Rousseau 1762; Barber 1984: pp. 225–229; Dahl 1998: pp. 62–78; Schmidt 2010: pp. 236–241). Differences between individuals and social groups are expressly not seen as arguments against equal inclusion, but rather as enriching diversity to benefit rational decision-making (Dryzek 1990: pp. 41–42; Young 2000: pp. 81–120). Inclusion thus enhances both the quality as well as the legitimacy of political decisions. The concept of inclusion is based on two components:

1. *Equal political involvement.* Inclusion not only means the involvement of all affected citizens (cf. Goodin 2007), but more particularly equal involvement (cf. Cohen 1989: pp. 22–23; Young 2000: p. 11). In this regard, equal involvement anticipates the possession of political rights, especially in the form of universal voting rights (Paxton et al. 2003). In addition to formal equal rights, radical-democratic theory places value on an unbiased use of participatory rights independent of status or gender (cf. Smith 2009: pp. 20–22). Equal involvement is facilitated when the state provides minimal resources, allowing for the independent political activity of all individuals (Rousseau 1762: pp. 124–125; Pateman 1970: p. 22; cf. also Merkel 2004: pp. 44–45). This includes political education alongside material resources (Barber 1984; Dahl 1998: pp. 79–80).
2. *Inclusive representation.* As much as possible, the collective political and social diversity of society should be mirrored inside the representative organs. On the one hand, this means substantive representation, in other words adequate representation of the political views of citizens. On the other hand, what is required is also a descriptive representation of the socio-structural distribution inside these representative organs (Young 2000; Arato 2006). An institutional condition for inclusive representation is an electoral system that has the lowest possible electoral threshold (cf. Lijphart 2004; Arato 2006).

## 2.3 The Multi-Dimensional Measuring Instrument

The six democratic dimensions derived from both the liberal and the radical democracy models and their respective components and subcomponents (cf. Table 1) are the basis of the instrument that measures the quality of democracy. Following Munck and Verkuilen (2002), during the development of this instrument particular attention is paid to the three main challenges of operationali-

zation: conceptualization, measurement, and aggregation (cf. Müller and Pickel 2007).

### 2.3.1 Conceptualization

The conceptualization of democratic quality proposed here is new in that it incorporates both established liberal-democratic as well as radical-democratic dimensions. The approach adopted allows for the qualities of distinctive liberal *and* radical democracies to be differentiated; the characteristics of the Swiss cantons can thus adequately be measured. The multi-dimensional conceptualization of the measuring instrument follows the methodological approach of Pickel and Pickel (2006): p. 269; cf. also Bühlmann et al. 2008, 2012a,b). The six dimensions examined are understood as abstract democratic functions. They can be realized with the help of the formal and informal institutional arrangements that appear at the component and subcomponent levels of the hierarchically-structured measuring instrument.<sup>3</sup> This measuring concept also allows for a methodological critique of existing democracy measurement (Munck and Verkuilen 2002: pp. 12–14) in that the subordinate levels can be systematically and gradually derived from, and selectively defined by, the respective superior levels.

### 2.3.2 Measurement

Even though the subcomponents are more concrete than their dimensions (Table 1), they are still regarded as latent variables (cf. Bollen 1989: Ch. 6; Treier and Jackman 2008) which can only be measured in approximate terms, using a series of indicators. For the actual measurement, every subcomponent must therefore be operationalized using multiple quantifiable indicators. At the same time, our goal to reveal differences in quality between established and culturally similar subnational democracies requires a delicate and complex measuring instrument capable of capturing to which degree and in which way formal democratic institutions actually function in a given context (Bühlmann et al. 2008: p. 117; 2009: p. 459). That is why less formalized structural features (“rules in use”) of cantonal democracy are factored in alongside formal institutions (“rules in form”). In other words, below the subcomponents are indicators obtained by

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<sup>3</sup> We have followed the functional research strategy as suggested by Lauth (2004) for the inter-cultural comparison of democracy: universal democratic functions can be realised using context-specific “functional equivalents.”

way of an analysis of legal texts (rules in form) as well as variables that measure the constitutional reality (rules in use) (e.g. survey data).

This approach can be illustrated using the operationalization of the “media” component in the context of the Swiss cantons. The contribution of the media to a high quality of public accountability is assessed, firstly, on the basis of statistics on the number and distribution of independent newspapers in a canton. Secondly, the degree of actual media use by citizens per canton is determined through survey data. Finally, on the basis of an analysis of legislative texts, the formal provisions for the promotion of information diversity and public access to the media are evaluated.

Through the application of such different data sources, the danger of systematic mistakes in measurement is reduced and the validity of our results thereby increased (Munck and Verkuilen 2002: pp. 15–16; Lauth 2004: pp. 306–307). The same also applies to the relatively high number of indicators: 371 indicators were originally allocated to the theoretically-derived subcomponents and tested accordingly by way of a factor analysis to detect their dimensionalities. As expected, not all indicators within the same subcomponents loaded onto the same factor. In such cases we also took into account qualitative considerations for the validity and reliability of the different indicators. This approach ultimately led to the operationalization of the 48 subcomponents by evaluating particular factors from the associated indicators (178 in total), whereby every subcomponent was determined on the basis of at least two indicators (for a list of all the indicators applied, see the Appendix).

During the collection of annual data for the 26 cantons from 1979 to 2009 we were able to rely on secondary sources to some extent, but primary data had to be collected for many indicators. However, it was impossible to find adequate data for all the years within the research period, so gaps were filled using constant time periods or through linear inter- or extrapolation. The method used for each indicator was carefully considered.<sup>4</sup>

### 2.3.3 Aggregation

The incremental aggregation from indicator- to dimension-level is based on the hierarchical, theoretical conceptualization of democracy’s six dimensions. In the first step, and as already mentioned above, the selected theory-driven and empirically suitable indicators were condensed into 48 subcomponents through factor

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<sup>4</sup> Due to limited space, the exact coding details for each indicator cannot be shown here. The detailed codebook and raw data are available from the authors upon request.

analyses. This factor-analytical approach to the determination of the subcomponents' values based on indicators reflects our understanding of the subcomponents as latent variables. In the first step of aggregation, none of the theoretical constructs were aggregated, although relatively meaningful theoretical conclusions would be available.<sup>5</sup>

In the second step, the factors of the subcomponents were standardized and condensed into the corresponding components. The averages of the standardized component values then ultimately represent the six dimensions. In this way, every element of the corresponding normative criteria matrix is incorporated with the same weight.<sup>6</sup> The averaging explicitly derives from ancillary connections between the (sub)components, meaning that a low value in one (sub)component can be compensated by a higher value in another.

### 3 Two Concurrent Hypotheses

The new measuring instrument can be used not only to analyse and describe forms and qualities of cantonal democracies, but the values of the dimensions and ensuing democracy types can also be used as either dependent or explanatory variables. In reality, there are different approaches to explain institutional varieties of democracies in empirical democracy research. Based on Freitag and Vatter (2009), Lijphart (1999: 250ff.), Kaiser (1997: p. 422), or Vatter (2002: 414ff.) and taking into account the particular characteristics of the Swiss cantons, we examine two competing hypotheses (as well as a variation of one of these two) on what explains variation across Swiss cantonal democracies.

The first relies on the cultural commonality of political systems to explain the development of political institutional settings. Pursuant to this hypothesis, common cultural regions shape the understanding of democracy and are formative for the evaluation of different forms of democracy in the cantons. More

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<sup>5</sup> The factors were calculated in SPSS using the regression method on the basis of principal component analysis. Six of the 48 subcomponents were each further subdivided into two sub-subcomponents which were then treated as latent variables.

<sup>6</sup> A factorised aggregation strategy was considered as an alternative approach to estimate the subcomponents. From a democracy theory point of view the unequal loading of the conceptually equal components appears problematic especially when individual components (such as an analysed canton year) are completely excluded because they do not load onto the same factor. If those components were subsequently but nevertheless proportionately calculated, very similar results ultimately are produced, for example in the case of transparent and clearly interpretable averaging.

specifically, subnational comparative democracy research commonly assumes that German-speaking cantons are characterized by radical and inclusive forms of citizen participation, while the Latin cantons<sup>7</sup> more strongly follow the liberal, power-separating and representative democracy model of France. Stadelmann-Steffen and Freitag (2011: pp. 533–534) summarize this widespread position as follows: “The Swiss cantons offer an excellent opportunity to assess the relevance of the participatory-inclusive and representative-delegative logic of democracy” whereby the German-speaking cantons match the former democracy type and the French-speaking cantons the latter. According to Stadelmann-Steffen and Freitag (2011), one can expect that the regional language differences of the two ideal types of democracy theory correspond to our dual measurement model. Thus the first hypothesis posits that the Swiss-German cantons follow the radical democracy model while Latin cantons match the liberal one.

With regard to current research debate, at least one variation of the first hypothesis should equally be analysed: a regional language difference is also posited between specific dimensions of the two democracy models, and not only in relation to their entirety. Linder (2005: p. 272) for example observes that the culture of direct democracy is more strongly pronounced in German-speaking Switzerland while the French-speaking cantons and Ticino conform more to the basic model of “representative” democracy with little influence of direct democracy. Ladner (2007) likewise concludes that in the Latin regions of Switzerland, the idea of representative, electoral democracy with a comparatively high value placed on parliament is more developed than in German-speaking Switzerland, which is distinguished by highly developed instruments of direct democracy (cf. also Ladner 1991; Vatter 2002; Linder 2010). In our measuring concept, the following observations of specific dimensions can be made: The “participation” dimension of the radical model of democracy stands primarily for participative, direct-democratic structures while the “electoral accountability” dimension of the liberal model of democracy combines representative-democratic institutions in which both formal rules and constitutional reality are considered. On the basis of the posited regional language differences concerning the forms of direct and representative democracy, we thus also analyse whether the cantons in the individual language regions adopt specific characteristics in the “participation” and “electoral accountability” dimensions. According to Linder (2005), hypothesis 1B is then defined as follows: Cantons in Latin Switzerland have higher values in the “electoral accountability” dimension and lower values in

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7 Latin Switzerland comprises the seven cantons where the German-speaking population is a minority (Ticino, Fribourg, Vaud, Valais, Neuchâtel, Geneva, and Jura).



the “participation” dimension, while German-speaking cantons display the opposite pattern.

The second approach to explaining democracy (types) presents an alternative to the prevailing “cultural-linguistic hypothesis.” It relies on a central assumption of historical institutionalism that values institutional arrangements primarily as a legacy of earlier social debate but influential until this very day. The political “Erbblast” hypothesis (Rose and Davis 1994) highlights the common historical background of state entities and the great inertia of regulations adopted much earlier. According to this approach, specific models of democratic techniques for conflict resolution are the result of common historical legacies and preceding constitutional traditions that possess great inertia. The historical continuity of political institutions is primarily traced back to formative historical periods that preclude alternative developments (Collier and Collier 1991). To analyse the political Erbblast hypothesis we examine the influence of democratic constitutional movements between 1830 and 1870 on the models of cantonal democracy between 1979 and 2009. According to Kölz (2004: p. 42), the cantons can be divided into four groups on the basis of their historical constitutional movements in the course of the democratization process of the 19<sup>th</sup> century. The first group is composed of cantons with a liberal-regenerative but no democratic movement.<sup>8</sup> It includes the francophone and liberal-individualist thinking cantons Vaud, Geneva, and Neuchâtel,<sup>9</sup> but also Lucerne and St. Gall. According to Kölz (2004: 43ff.), the second group is composed of the regenerative cantons with democratic movement, namely the Swiss-German cantons of Zurich, Berne, Solothurn, Basel-Country, Schaffhausen, Aargau, and Thurgau. The third group consists of the German-speaking Landsgemeinde cantons. With their longstanding direct-democratic, collective and pre-modern traditions, a liberal-regenerative movement was out of the question (Kölz 2004: 231ff.). The group includes Uri, Schwyz, Obwalden, Nidwalden, Glarus, Zug, Appenzell Inner- and Outer-Rhodes as well as Grisons. Finally, a fourth group consists of cantons with a special kind of constitutional development (Kölz 2004: 325ff.). Common characteristics of this last group are the strong position of conservatives, a late (if at all) and mostly weak liberal-regenerative movement, and the

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<sup>8</sup> While the liberal-regenerative movement fought primarily for individual freedoms, legal equality, separation of powers, and strong parliamentary government, democratic movements advocated the implementation of socio-political and egalitarian goals through the adoption and expansion of direct-democratic citizen rights (Kölz 2004).

<sup>9</sup> Neuchâtel constitutes a special case within this group on the basis of its monarchical background. However, its first constitution of 1848 was a particularly pronounced example of a classic power-separating liberal-representative constitution (Kölz 2004).

absence of a democratic movement. A prime example is Basel-City which had become a city-state due to a cantonal division. It was governed during the regenerative period by the so-called “Ratsherrenregiment” (Alderman regime) and had, until 1875, a restorative constitution with moderate conservative and individual liberal elements (Kölz 2004: p. 337).<sup>10</sup> The conservative-catholic French-speaking cantons of Fribourg and Valais also belong to this group. Of all the cantons, they most strongly resisted democratization and constitutional reform. Though Kölz (2004: 325ff.) describes Fribourg as a canton with a liberal constitution lacking in direct-democratic elements, he includes it in the fourth group due to the strong position of conservatives.<sup>11</sup> Similarly, the liberal-conservative 1852 and 1875 constitutions of Valais are characterized by strong conservative-restorative elements and the absence of direct democracy. The only Italian-speaking canton is an exceptional case and likewise assigned to the fourth group. Ticino, shaped by much unrest, has a representative constitution in line with the French-Helvetian model (Kölz 2004: p. 330). A final exception is Jura, founded only in 1979. According to Kölz (2004: p. 467), the first constitution of Jura was unusual in that it directly referred to the 1789 French Declaration of Human Rights that explicitly guarantees classic-liberal freedoms, while at the same time meeting only the minimum of citizens’ rights. If one summarizes Kölz’s (2004) typology of cantonal constitutional movements with reference to both democracy models that are the main focus here, those cantons with liberal-regenerative but no democratic movement (group 1) as well as those with conservative-liberal constitutions and no democratic movement (group 4) more closely correspond to the liberal-democratic model. Meanwhile, the regenerative cantons with a democratic movement (group 2) as well as the Landsgemeinde cantons with longstanding direct-democratic traditions (group 3) would be assigned to the radical-democratic model. On a continuum of democracy forms from liberal to radical, the liberal-regenerative cantons without democracy movement and the Landsgemeinde cantons are positioned at either end, while the other two groups are closer to the middle.

A variation of the theory of path dependency just presented emphasizes the role of contemporary historical and political events (so-called “critical junctures;” see Pierson 2000) to explain the characteristic forms of democratic institutions. Specific decisions, encountered at particular critical turning points, can

<sup>10</sup> In contrast to all other cantonal constitutions, the constitution of Basel-City does not contain any commitment to popular sovereignty.

<sup>11</sup> Fribourg was the last Swiss canton to abandon representative democracy (Kölz 2004: p. 336). The popular election of the cantonal government, the legislative initiative and the optional legislative referendum were only introduced in 1921.

thus lead to path changes and institutional reform that, although limited by context, redefine the logic of institutional regimes (Kaiser 2002). The hypothesis of critical junctures is best illustrated by the canton of Berne: the deep-seated crisis in the relationship with the canton's Jura region, the long-lasting and sometimes violent conflicts between separatist movements and those loyal to Berne, and the secession of the northern part of the Jura region that led to the creation of Jura canton in 1979, were, without a doubt, politically influential events for Berne. The financial scandal uncovered in the mid-1980s, in which the government of Berne had misused lottery money to financially support the "Force démocratique," a militant organization in Berne's Jura region, likewise received a lot of attention. These extraordinary events subsequently led to a total revision of Berne's constitution, adopted in 1993.<sup>12</sup> Even where no such momentous events occurred, total revisions of cantonal constitutions constitute important stages in the democratic development which combine the collective experiences of social and political change of the past decades and mould them into institutional reform. Therefore, in light of progressive phases of democracy in the past 100 years, one can assume that more recent reforms allow for larger-scale emancipatory participation demands of society. Accordingly, better democracy values can be anticipated the more recent a total revision of a cantonal constitution has taken place.

Ultimately, in the sense of a control hypothesis, additional socio-structural and socio-economic characteristics should be included for the explanation of political-institutional differences. On the basis of the obvious socio-economic and socio-structural heterogeneity between the cantons, this approach has been used for some time to explain political-administrative differences between the Swiss cantons (Geser and Höpflinger 1977: p. 132; Horber and Joye 1979). A common indicator is the percentage of workers employed in each of the three economic sectors.<sup>13</sup>

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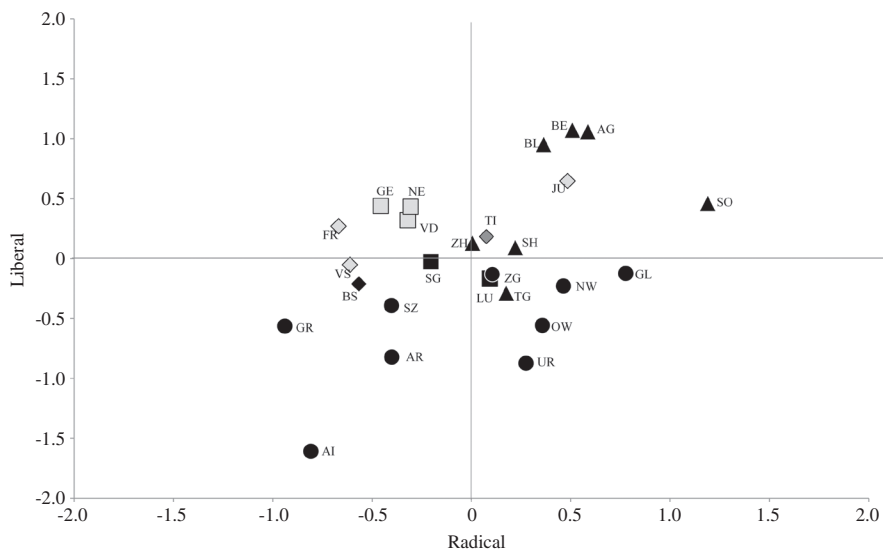
**12** It was the first constitution to introduce the principle of public access within the cantonal administration, place particularly strong emphasis on government accountability, and give citizens the power of appointment and dismissal of government (Kölz 2004: p. 103).

**13** We thank a reviewer of this article for suggestions of further possible control variables that we analysed in several regression models not presented here. Actually, neither the fact whether or not a canton had belonged to the "Sonderbund" (as an alternative variable for path dependency), additional variables to measure socio-structural heterogeneity (population density, percentage of Catholics), nor different geographical measurements (distance, proximity to France/Italy/Germany) have any explanatory power. Moreover, these variables do not change the substantive results with respect to the variables that we have used. Because our analysis was constrained by a limited number of data, we have only used control variables with explanatory power in the following models.

## 4 Liberal and Radical Cantonal Democracies Compared

A two-stage approach was chosen for the empirical analysis. In the first stage, the values of each individual canton are displayed on a democracy map. In doing so we used the mean z-transformed values for both the radical and liberal democracy forms and both dimensions (radical participation and electoral accountability) over the whole time period (1979–2009). The horizontal axis represents the form of radical democracy (Figure 1) and the “radical participation” dimension (Figure 2), while the values for liberal democracy (Figure 1) and “electoral accountability” (Figure 2) are shown on the vertical axis. In the second stage, the hypotheses were tested using multivariate regression analyses.

Figure 1 positions the cantons within a two-dimensional field of liberal and radical democracies. It shows clusters of cantons that have both linguistic-cultural and constitutional-historical similarities. Thus the French-speaking cantons (VD,



**Figure 1:** Conceptual Map of Cantonal Democracies along the Liberal and Radical Democracy Axes.

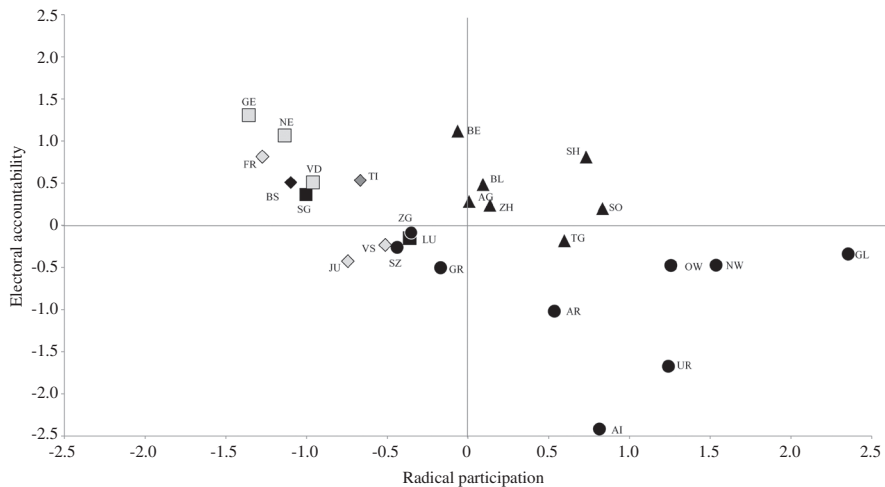
Explanation: Light grey: predominantly French-speaking cantons; grey: Ticino (TI); black: predominantly German-speaking cantons; the groups according to Kölz (2004): square: cantons with liberal regenerative movement but no democratic movement (VD, GE, NE, LU, SG); triangle: regenerative cantons with democratic movement (ZH, BE, SO, BL, SH, AG, TG); circle: Landsgemeinde cantons (UR, SZ, AI, AR, OW, NW, GL, ZG, GR); diamond: cantons with special constitutional development (BS, FR, VS, TI, JU).

GE, and NE), characterized by a strong liberal-regenerative movement in the mid-19<sup>th</sup> century and the absence of a democratic movement, are located as expected in the first quadrant of above-average liberal-representative but rather weak radical-democratic democracies. The two Swiss-German cantons that belong to this constitutional-historical group (LU and SG) stand out due to their comparably stronger radical-democratic but weaker liberal components.

The cantons with a liberal *and* a democratic constitutional movement – all of them Swiss-German cantons (ZH, BE, SO, BL, SH, AG and TG) – are located in the second quadrant of above-average liberal and radical democracies, with the exception of Thurgau, which lies just under the liberal mean. The third group of (former) Landsgemeinde cantons from German-speaking Switzerland (UR, SZ, OW, NW, GL, ZG, AR, AI and GR) are distributed over the third and fourth quadrants. These cantons all have below-average liberal democracy values. The fourth group of former catholic-conservative cantons with no liberal and democratic regenerative movement (BS, FR, VS, TI and JU) is characterized by heterogeneity. On the one hand, there are cantons with low radical-democratic and only average liberal components (FR, VS and BS). What is noticeable is that linguistic affiliation does not play a role here and the German-speaking, mixed language and French-speaking cantons in this group are all located close together. On the other hand, the same does not apply to the other two cantons in this group (TI and JU): The only Italian-speaking canton, Ticino, adopts average values on both axes and (together with Zurich) best approximates the Swiss mean. Deserving special mention is Jura, which is located within the group of liberal cantons with democratic movement and therefore very close to its former home canton, Berne.

Figure 2, with the axes “electoral accountability” and “radical participation,” displays only one typical dimension each of the two central democracy models. It emphasizes the important influence of 19<sup>th</sup> century constitutional-historical movements on cantonal democracy models at the turn of the 21<sup>st</sup> century: the participatory elements of Swiss-German and Swiss-French cantons with no democratic-constitutional movement are still below average. (Former) Landsgemeinde cantons are still located in the lower-right quadrant, characterized by poor electoral accountability relationships but high direct-democratic participation. Conversely, cantons which had strong liberal *and* democratic movements now have both strong electoral accountability and highly-developed direct-democratic forms of participation.

Furthermore, Figure 2 clearly shows that not all Swiss-German cantons are located together in the lower-right quadrant, but only the rural Central and Eastern cantons. These cantons provide their citizens with strong participation rights that are also more intensively used. The remaining Swiss-German cantons are divided across the other three quadrants, not conforming to the hypothesis of linguistic-regional



**Figure 2:** Conceptual Map of Cantonal Democracies upon Two Dimensions of The Democracy Models (electoral accountability and radical participation).

Explanation: Light grey: predominantly French-speaking cantons; grey: Ticino (TI); black: predominantly German-speaking cantons; the groups according to Kölz (2004): square: cantons with liberal regenerative movement but no democratic movement (VD, GE, NE, LU, SG); triangle: regenerative cantons with democratic movement (ZH, BE, SO, BL, SH, AG, TG); circle: Landsgemeinde cantons (UR, SZ, AI, AR, OW, NW, GL, ZG, GR); diamond: cantons with special constitutional development (BS, FR, VS, TI, JU).

differences. As for St. Gall and Basel-City, they sit together with the Latin cantons because they too have higher values for electoral accountability and comparatively lower values for participation. Likewise, and again contrary to the linguistic-cultural hypothesis, the (predominantly) French-speaking cantons of Valais and Jura are both located in the lower-left quadrant. They not only have the expected low values for participation, but also below average values for electoral controls. Zug, Lucerne, Grisons and Schwyz are also in this quadrant, as they have (below) average values on both dimensions. Finally, Basel-Country, Zurich, Aargau, Schaffhausen and Solothurn are located in the upper-right quadrant. They have high participation values and emphasize accountability and control of political representatives.

From Figure 2, one can thus interpret the following: the lower a canton's value in the "participation" dimension, the higher its values for electoral accountability (Pearson's  $r = -0.55$ ). This indicates that both dimensions are mutually exclusive to a certain degree: a cantonal democracy emphasizes the accountability of political representatives and control of the elite either through elections or with direct-democratic referendums on specific issues. However, this connection can definitely not be explained by language alone.

In a final empirical step we examine the hypotheses using multivariate regression models. The average values for liberal and radical democracy between 1979 and 2009 and for the electoral accountability and participation dimensions serve as dependent variables. Alongside language<sup>14</sup> and controls (age of constitution,<sup>15</sup> primary sector<sup>16</sup>) as independent variables, the affiliation of the canton to the four groups of constitutional-historical movements is modelled as a categorical variable (four dummy variables).

The regression analysis to a large extent confirms the results observed in Figures 1 and 2 (Table 2). Noticeable is the relevance of constitutional-historical movements for the current democracy positions of the cantons. The typology of constitutional movements according to Kölz (2004) is proven to be explanatory both for the development of cantonal liberal democracy and for the “electoral accountability” and “radical participation” dimensions. The linguistic-cultural hypothesis on the other hand has only partial explanatory power: though the French-speaking cantons have significantly higher liberal democracy values, there are no linguistic-cultural differences in the radical democracy model, nor in the two dimensions. The date of the most recent full revision of the cantonal constitution is significant for the position of cantons on the radical democracy axis: proximity in time of the revision corresponds to higher values on the radical democracy axis. This indicates that the radical democracy dimension measures not only different forms of citizen participation, but also current emancipatory demands of citizens and, in this way, is an expression of the present modernity of cantonal democracies. In this sense the explanatory power of the age of the constitution can also be interpreted for the values of the liberal model and the participation dimension: the younger a cantonal constitution, the higher the values for both. Finally, the other significant control variable (which measures the share of employment in the primary sector) confirms the observation from Figures 1 and 2 that it is the generally rural *Landsgemeinde* cantons that are characterized by below-average liberal values and low electoral controls.

## 5 Conclusions

The present study has attempted to empirically measure the multi-dimensional quality of democracy in the Swiss cantons on the basis of comprehensive data

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<sup>14</sup> This variable measures the proportion of French-speakers in a canton.

<sup>15</sup> The age of the constitution is determined by the average number of years since the introduction of the last constitution (between 1979 and 2009).

<sup>16</sup> This variable measures the primary-sector share of employment in a canton (agriculture etc.).

Table 2: Regression Analyses.

References	Liberal				Radical				Electoral Accountability				Radical participation			
	G1	G2	G3	G4	G1	G2	G3	G4	G1	G2	G3	G4	G1	G2	G3	G4
Constant	0.83 (0.77)*	1.34 (0.28)*	0.37 (0.40)	0.81 (1.27)*	1.25 (0.88)*	1.46 (0.39)*	1.02 (0.53)*	0.97 (0.78)*	0.70 (0.73)*	0.91 (0.36)*	0.17 (0.47)	0.58 (0.68)*	-0.16 (1.08)	0.47 (0.40)	0.79 (0.65)	-0.32 (0.93)
G1 (liberal w/o dem. movement)	-	-0.51 (0.75)	0.46 (0.85)	0.02 (1.12)	-	-0.21 (0.98)	0.23 (1.04)	0.28 (0.53)	-	-0.20 (0.96)	0.54 (1.05)*	0.13 (0.66)	-	-0.64 (0.78)	-0.95 (1.28)	0.16 (0.79)
G2 (regenerative w dem. movement)	0.51 (0.77)	-	0.97 (0.31)*	0.53 (1.25)	0.21 (0.79)	-	0.44 (0.37)	0.49 (0.63)	0.20 (0.67)	-	0.74 (0.29)*	0.33 (0.58)	0.64 (0.98)	-	-0.31 (0.46)	0.79 (0.78)*
G3 (Landsgemeinde cases)	-0.46 (0.80)	-0.97 (0.32)*	-	-0.44 (1.27)	-0.23 (0.86)	-0.44 (0.34)	-	0.05 (0.68)	-0.54 (0.65)*	-0.74 (0.29)*	-	-0.41 (0.57)	0.95 (1.04)	0.31 (0.46)	-	1.10 (0.79)*
French speaking	0.86 (1.24)	0.86 (0.50)	0.86 (0.66)	0.86 (0.66)	-0.19 (0.61)	-0.19 (0.99)	-0.19 (0.74)	-0.19 (0.74)	0.52 (0.58)	0.52 (0.77)	0.52 (0.74)	0.52 (0.74)	-0.16 (0.70)	-0.79 (0.66)*	-1.10 (0.95)*	-
Age of the constitution	-0.92 (0.38)*	-0.92 (0.38)*	-0.92 (0.42)*	-0.92 (0.37)*	-1.94 (0.51)*	-1.94 (0.46)*	-1.94 (0.48)*	-1.94 (0.48)*	0.25 (0.66)	0.25 (0.59)	0.25 (0.58)	0.25 (0.56)	-1.08 (0.70)*	-1.08 (0.67)*	-1.08 (0.62)*	-1.08 (0.68)*
Primary sector	-1.55 (0.63)*	-1.55 (0.59)*	-1.55 (0.64)*	-1.55 (0.61)*	-0.75 (0.77)	-0.75 (0.78)	-0.75 (0.76)	-0.75 (0.81)	-2.07 (0.83)*	-2.07 (0.82)*	-2.07 (0.83)*	-2.07 (0.79)*	0.73 (0.82)	0.73 (0.76)	0.73 (0.78)	0.73 (0.79)
R <sup>2</sup> corr.	0.72*	0.72*	0.72*	0.72*	0.52*	0.52*	0.52*	0.52*	0.68*	0.68*	0.68*	0.68*	0.62*	0.62*	0.62*	0.62*

Regression coefficients, in brackets: robust standard errors (Bootstrap, 1000 replications); highlighted grey: significant to a minimum 90% level. All dependent variables rescaled on a 0–1 scale in which 1 indicates the maximal parameter value and 0 the minimal value of a variable. Reference groups according to Kölz (2004): G1: cantons with a liberal regenerative movement but no democratic movement (VD, GE, NE, LU, SG); G2: regenerative cantons with democratic movement (ZH, BE, SO, BL, SH, AG, TG); G3: Landsgemeinde cantons (UR, SZ, AI, AR, OW, NW, GL, ZG, GR); G4: cantons with special constitutional development (BS, FR, VS, TI, JU).



and by using liberal-representative and radical-participatory democracy models as a conceptual basis. The political Erblast hypothesis, which points to a significant role of 19<sup>th</sup> century constitutional movements for contemporary forms of cantonal democracies, was tested as an alternative explanation to the widespread linguistic-cultural hypothesis of clear democracy-typical differences between Latin and German-speaking Switzerland.

By looking at the distribution of cantons on the graphs Figures 1 and 2, it is clear that there is a strong formation of groups of German-speaking and Latin democracy patterns, although there are important exceptions. The francophone cantons are, for the most part, located together in the quadrant of strong liberal-representative democracies. Basel-City and St. Gall are important exceptions, since they are also located in this quadrant but are German-speaking. The radical-democratic but least liberal Landsgemeinde cantons of Central and Eastern Switzerland are located on the opposite side of the graph. Finally, the North-Western German-speaking cantons have both high radical- and liberal-democratic characteristics. The grouping of francophone cantons in the liberal-representative first quadrant, the positioning of the German-speaking Mittelland cantons in the second quadrant, and the distribution of the (former) Landsgemeinde cantons in the third and fourth quadrants all suggest a limited significance of specific linguistic and regional neighbor cultures. Notably the positions of Basel-City, St. Gall, Jura, Valais, and Ticino, but also the heterogeneity of the Swiss-German cantons, speak against an oversimplified parallel of linguistic-cultural and democracy characteristics.

Does the alternative approach that institutional arrangements are considered primarily as the result of common historical legacies and past constitutional traditions offer a more profitable explanation than the widespread linguistic-cultural hypothesis? The individual positions of the cantons certainly show that the presented cantonal democracy patterns between 1979 and 2009 directly correspond to the particular direction of cantonal constitutional movements between 1830 and the 1870s.<sup>17</sup>

Thus, the cantons of Geneva, Valais and Neuchâtel have above-average high values on the liberal-representative axis that clearly correspond to the strong position of their liberal-regenerative movements (and the simultaneous lack of a democratic movement) in the first half of the 19<sup>th</sup> century. Similarly, the liberal-regenerative cantons *with* a strong democratic movement form their own group, characterized by both high liberal- and high radical-democratic values; they

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<sup>17</sup> The regression analyses also indicate that the date of a complete revision of a cantonal constitution plays an important role: the more recent the last revision of the constitution, the greater the inclusion of radical-democratic and emancipatory demands.

thereby most closely resemble the ideal form of modern democracy. This approach also explains why the Swiss-German cantons of Basel-City, St. Gall and (partially) Lucerne are positioned within the group of liberal-representative Latin cantons. The unusual lack of a strong democratic movement in the medium-sized and large Swiss-German cantons (i.e. non-Landsgemeinde cantons) in the mid-19<sup>th</sup> century is clearly reflected in the current democracy structures of these three cantons. This approach also provides an explanation for the low liberal and participatory democracy values for Valais, reflecting the dominant conservative-catholic forces of the last century that gave rise to neither a strong liberal nor a democratic movement. Finally, it can be observed that all (former) Landsgemeinde cantons are located below the liberal democracy axis. Referring to Figure 2 (electoral accountability vs. radical participation) in particular, a further differentiation within this group can be made. The three cantons located in the fourth quadrant (GR, SZ and ZG) with below-average values on both dimensions are not only those in which the assembly traditions lasted the shortest amount of time (dissolved in 1848 at the latest), but they are also those with the strongest regional conflicts (Outer- vs. Inner-Schwyz, Zug city vs. countryside, three Leagues and languages in Grisons). Conversely, the other (former) Landsgemeinde cantons in the third quadrant have had no comparable internal conflicts and the (pre-modern) Landsgemeinde traditions have been retained also post-1848. Table 3 is a summary of the classification of present-day forms of democracy with their corresponding development of different 19<sup>th</sup> century constitutional movements and forms.

Overall, then, constitutional-historical legacies and the strength of 19<sup>th</sup> century social movements deliver a more persuasive explanation for the present forms of cantonal democracies than the widespread linguistic-cultural hypothesis. These

**Table 3:** Classification of Current Cantonal Democracy Types on the Basis of Their Constitutional Movements.

	Weak radical democracy (low values of radical participation)	Strong radical democracy (high values of radical participation)
<b>Strong liberal democracy (high values of electoral accountability)</b>	– Liberal-regenerative cantons <i>without</i> democratic movement – Conservative cantons <i>without</i> regenerative movement	– Liberal-regenerative cantons <i>with</i> democratic movement
<b>Weak liberal democracy (low values of electoral accountability)</b>	– Former Landsgemeinde cantons (before 1848) <i>with</i> strong regional conflicts	– (Former) Landsgemeinde cantons (after 1848) <i>without</i> regional conflicts

results make it clear that the dominant hypothesis of the dichotomy between direct-democratic German-speaking Switzerland and representative-democratic French-speaking Switzerland is too narrow. Rather, the main types of 19<sup>th</sup> century constitutional movement according to Kölz (2004) are still quite united forms of democracy and confirm the inertia of political institutions.

## Appendix: Short definitions of the indicators used

### Liberal Dimensions

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#### Liberal Constitutionalism

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##### Individual freedom

##### Freedom rights

kv_frr_priv	Constitutionally guaranteed protection of the privacy sphere
kv_frr_dign	Constitutionally guaranteed protection of human
kv_frr_life	Constitutionally guaranteed right to life, physical and psychic integrity
kv_frr_info	Constitutionally guaranteed freedom of information
kv_frr_data	Constitutionally guaranteed protection against misuse of personal data
kv_frr_mov	Constitutionally guaranteed freedom of movement
kv_frr_sciart	Constitutionally guaranteed right to academic freedom and freedom of art
kv_frr_fam	Constitutionally guaranteed right to marry and to found a family
kv_frr_opin	Constitutionally guaranteed freedom of opinion (building, uttering, propagating, and receiving)
kv_frr_bel	Constitutionally guaranteed freedom of faith, conscience and creed

##### Property rights

kv_frr_home	Constitutionally guaranteed protection of the sanctities of the home
kv_frr_est	Constitutionally guaranteed freedom of establishment
kv_frr_prop	Constitutionally guaranteed protection of property
kv_frr_econ	Constitutionally guaranteed freedom of trade and occupational choice
kv_frr_expro	Constitutionally guaranteed restrictions to expropriation

##### Acceptance of laws and regulations

kv_grr_rel	Constitutionally codified duty to respect the rights of others when exercising one's own basic liberties
kv_legdut	Explicit constitutional codification of everybody's obligation to comply with his legal duties
kv_ordsec	Constitutional codification of the state's responsibility to protect the public security and order
crime_rate_N	Number of convictions under the penal law, per 1000 inhabitants (inverse)

**(Liberal Dimensions Continued)**

## Limited scope of the state

## Actual scope

Staatko_od_N	Total public expenditures by canton and municipalities, in CHF per capita (inverse)
Verko_od_N	Cantonal (and municipal) expenditures for general administration and authorities, in CHF per capita (inverse)
verwdich_ktgem	Public employees of canton and municipalities together, per 100 inhabitants (inverse)

## Constitutional provisions

kv_check	Constitutional codification of a continuous assessment of public tasks for their necessity/portability
kv_budlim	Constitutional codification of the principles of an economical and balanced budget management of the state
kv_finverb	Constitutional codification of conditional financing before adopting new public tasks
kv_taxhurd	Constitutional codification of institutional barriers for tax increases

## Rule of law

## Supremacy of the law

## Formal supremacy of the law

kv_pr_hear	Constitutional codification of a right to a court hearing
kv_gesvorb	Constitutional codification of legal proviso
kv_retroban	Constitutional codification of the prohibition on retroactive legislation
kv_pr_judgm	Constitutional codification of a right for justified court ruling and instruction on the right to appeal
kv_willkverb	Constitutional codification of the prohibition of arbitrariness

## Substantive supremacy of the law

kv_grr_restr	Constitutional restrictions of curtailing basic rights
kv_grrkern	Constitutional codification of the inviolability of the core of basic rights
kv_grrbind	Constitutional codification the commitment of public power and individuals to the basic rights

## Legal equality

kv_pr_fair	Constitutional codification of the right for a fair (/and equal) treatment in court hearings
kv_gratadvice	Constitutional codification of the right for a free legal advice
kv_pr_grat	Constitutional codification of the right of deprived people for free legal assistance and legal aid
kv_diskrverb	Explicit constitutional prohibition of discriminating/benefitting certain groups with regard to the equality before the law
kv_rechtsgl	Explicit constitutional codification of a general equality before the law

## Protection of minorities

## Voting behavior favoring minorities

MF_Frauen	Minority-friendliness of cantonal voting results at national polls regarding women
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**(Liberal Dimensions Continued)**

MF_Sprachmind	Minority-friendliness of cantonal voting results at national polls regarding language minorities
MF_Alte	Minority-friendliness of cantonal voting results at national polls regarding elderly people
MF_Behinderte	Minority-friendliness of cantonal voting results at national polls regarding handicapped people
MF_Auslaend	Minority-friendliness of cantonal voting results at national polls regarding foreigners
MF_Militaerverw	Minority-friendliness of cantonal voting results at national polls regarding deniers of military service
MF_Junge_Stim	Minority-friendliness of cantonal voting results at national polls regarding the voting right of younger people
Constitutional provisions	
kv_frr_lang	Constitutional guarantee of language freedom
kv_minprot	Constitutional codification of the protection of the rights of minorities
kv_frr_cohab	Constitutional guarantee of the freedom of the form of cohabitation
<b>Horizontal accountability</b>	
Strength of parliament versus government	
Independence	
Eröffnung_N	Opening of the new legislature period by government (inverse)
Parlamentsdienst	Independent parliamentary secretariat resp. later parliamentary services
Id_Unver	Incompatibility of governmentary and parliamentary mandate
Supervisory powers	
Akteneinsicht_Au	Insight in files by inspection commissions
Inferecht	Information right of members of parliament explicitly codified
Akteneinsicht_all	Inquiry and insight in files by general commissions
PUK	Possibility of inserting a (powerfull) parliamentary fact finding commission legally provided
Konfliktregelung	Final decision-making competence in case of conflict between member of parliament and government
Legislative powers	
Legislative competencies of parliament	
Reg_programm	Parliament treats government program
ParlInit	Possibility of parliamentary initiative
Fragestunde	Possibility of question time
Legislative competencies of government	
Finanzbefugnisse	Financial competences of government (inverse)
Dringlichkeitsrec	Right of urgent acts by government (invers)
Notrecht_N	Right in state of emergency by government (inverse)

**(Liberal Dimensions Continued)**

## Power sharing in parliament

## Regulations to support power sharing

kv_readings	Constitutionally defined number of readings before adoption of laws by parliament
minfrakrel_N	Number of members of parliament necessary for building a fraction, in relation to the number of seats in parliament (inverse)

## Strength of the opposition

Oppositionsstaerk	Index of effective power of opposition parties versus governing parties in parliament (seat shares)
CoalitType2	Coalition type of government (minority, surplus majority, minimal winning, hegemonial)

## Judicial independence

## Separation from executive and legislature

Unvereinbar_KR	Incompatibility of mandate at the cantonal high court with parliamentary mandate
Funktionelle Una	Independence of courts/jurisdiction codified in constitution or law
Unvereinbar_RR	Incompatibility of mandate at the cantonal high court with government mandate

## Personal independence

Unvereinbar_An	Incompatibility of mandate at the cantonal high court with mandate as advocate
Präsidentenwahl	Instance for confirming resp. electing the president of the cantonal high court
Unvereinbar_VR	Incompatibility of mandate at the cantonal high court with an administrative board mandate
Amtsdaure	Term of office of judges at the cantonal high court
Amtszeitbeschrän	Limitation of term of office at the cantonal high court (inverse)

## Professionalization

Eignungsprüfung	Instance for controlling ability and eligibility of candidates for the cantonal high court
Wahlvorbereitung	Instance preparing elections
Aufsichtsorgan	Instance of superintendence

## Organizational independence

Budgetrecht	Courts are sovereign in budgetary matters
Verwaltungsauto	Constitutionally or legally codified right of autonomous administration of courts or jurisdiction
Antragsrecht_Parl	Right for applying for finances directly at the parliament
Anstellung_Kanzl	Appointment of chancellery by highest cantonal court

## Independent controlling instances

## Administrative jurisdiction

Verwaltungsgeric	Administrative court as ultimate authority in disputes concerning administrative law
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**(Liberal Dimensions Continued)**


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Generalklausel	Efficacy of administrative court
VerwaltungsG_Ja	Years since introduction of an administrative court
Rechtsweggaranti	Guaranteed recourse to the cantonal courts also in cases concerning federal administrative law
Constitutional review	
Verfassungsgeric	Institutionalized constitutional court
VerfG_Index	Index of powers of courts regarding constitutional review
Independent supervisory authorities	
Ombuds	Existence of a cantonal ombudsman
FK_Umfang	Scope of financial control
kv_fincont	Constitutionally guaranteed independence of financial control

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**Electoral accountability**


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Secret elections	
Free, secret, and regular elections	
secelec_parl	Secret ballot at elections of cantonal parliament
secelec_reg	Secret ballot at elections of cantonal government
Competition	
Electoral vulnerability in government	
CompRegElec2	Difference between number of candidates and number of mandates in last total renewal elections
Kampfwahl_Reg	More candidates than seats in last total renewal elections
wett_reg_se	100% minus seat share of strongest party in government
Electoral vulnerability in parliament	
wett_parl2_se_N	Difference between largest and second largest party in parliament, in % of all seats (inverse)
wett_parl_se	100% minus seat share of strongest party in parliament
Electoral availability	
Electorate's readiness to change their party vote	
Volatilitaet_se_ye	Parliamentary volatility: Netto change of seat shares of parties, standardized for the length of legislature
reg_stab2	Change in party composition of government
Clarity of governmental responsibility	
Clarity of governmental responsibility	
reg_party_N	Number of governing parties (inverse)
spann_N	Range of party composition of governing coalition (inverse)
Governmental autonomy	
Independence from the people between elections	
reglegisl	Term of office of government, in years
parlegisl	Term of office in parliament, in years
Referendumsauss	No subsequent referendum possible in case of urgent acts, according to constitution

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**(Liberal Dimensions Continued)**

## Independence from specific interests

kv\_transpint Constitutional codification of an obligation of members of parliament to disclose interest bonds

kv\_freemand Constitutional codification of a free mandate for members of parliament

## Autonomy from other state levels

transfer\_N Total revenues received from the federal state, in CHF per capita (inverse)

gem\_init\_ref2\_N Right of initiative and referendum for single municipalities on cantonal laws (inverse)

## Radical Dimensions

**Radical Participation**

## Extended electoral rights

## Direct popular elections

volkwahl Years gone by since the introduction of direct popular election of cantonal executive

regpraes\_volkwa Election of the executive's president in popular elections

Ernennungsbehör Popular elections for the judges of the highest cantonal court

beratung\_wahl Institutionalized opportunity for the citizens to collectively deliberate on elections and candidates

## Possibility of recall

recall\_reg Possibility to recall the cantonal executive from office ahead of time by a popular initiative

recall\_parl Possibility to recall the cantonal parliament from office ahead of time by a popular initiative

## Direct democracy competencies

## Rights of initiative and referendum

GIR Index for the institutional openness of the popular statutory initiative, as proposed by Stutzer (1999)

VIR Index for the institutional openness of the popular constitutional initiative, as proposed by Stutzer (1999)

GRR Index for the institutional openness of the statutory referendum, as proposed by Stutzer (1999)

FRR Index for the institutional openness of the fiscal referendum, as proposed by Stutzer (1999)

## Other direct democracy instruments

verfahrinit\_scope Existence and scope of a popular right to propose a different order of votes, postponement of authorities' projects, and/or revision of such projects



**(Radical Dimensions Continued)**


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beratung_sach	Institutionalized opportunity for the citizens to collectively deliberate on the issues put to popular vote
KRR	Index for the existence and institutional openness of the “constructive referendum”
Use of direct democracy competencies	
Frequent ballots	
Initot	Number of popular initiatives put to vote
Reftot	Number of referendums put to vote
Local self-government	
Financial and perceived municipal autonomy	
foed_tax_N	Size of municipal as compared to cantonal fiscal revenues
foed_schreiber	Degree of local autonomy as perceived and reported by the heads of municipal administrations
Constitutional municipal autonomy	
kv_gembest	Constitutionally guaranteed right for the existing municipalities to continued existence
kv_gemaut	Constitutional codification of municipal autonomy
kv_gemfusion	Constitutional provisions concerning mergers of municipalities
Public accountability	
Transparency of political processes	
Transparency of parliament and communication by authorities	
kv_vernehmhl	Explicit constitutional codification of the mechanism of consultation
oeffprinzh	Legal enactment of the general rule that any governmental documents are freely accessible to the public
kv_behinfo	Constitutionally codified duty of the authorities to inform the public about their activities
ParlSecretSess_N	Provisions concerning the possibility of secret sessions or secret decisions on single agenda items by the parliament (inverse)
ParlProt	Accessibility and elaborateness of the minutes of parliamentary sessions
Transparency of government and courts	
kv_publger	Constitutional provisions concerning the public access to judicial proceedings
kv_publreg	Constitutional provisions concerning the public access to government sessions
Media	
Legal frameworks for the media	
kv_infodiv	Constitutionally codified public task to promote information diversity
kv_zensverb	Constitutional codification of the prohibition of censorship
kv_medfoerd	Constitutionally codified public task to promote media access

**(Radical Dimensions Continued)**

## Media diversity

pressdiv Press diversity: Number of newspapers with self-contained, regular reporting on cantonal politics

presscompdist\_ex Degree of press competition within the subcantonal districts

## Use of the media

Radio Share of survey respondents who use radio broadcasting for their opinion-making

Zeitung Share of survey respondents who use newspapers for their opinion-making

Fernsehen Share of survey respondents who use television broadcasting for their opinion-making

## Extra-institutional participation

## Constitutional protection of extra-institutional participation

kv\_frr\_demo Constitutionally guaranteed freedom to demonstrate

kv\_frr\_pet Constitutionally guaranteed right to petition

kv\_frr\_stri Constitutionally guaranteed right to strike

kv\_frr\_assoc Constitutionally guaranteed freedom of association

## Participatory culture

Mitglied Share of survey respondents who are member of at least one political or economic organization

Leserbriefe Share of survey respondents who use letters to the editor for their opinion-making

Interesse Share of survey respondents who state to be very interested in politics

## Inclusion

## Equal political involvement

## Universal suffrage

stimmalterakt Age required for the right to vote and to elect (inverse)

passelmin\_go\_N Age required for the right to be elected into the cantonal executive (inverse)

lady1 Female suffrage

Ausl\_StiR Existence and scope of suffrage for foreign residents

## Equal use of voting rights

T\_Bildung\_N Disproportionality of actual participation rates between groups of different education levels (inverse)

T\_Qualifikation\_N Disproportionality of actual participation rates between groups of different occupational statuses (invers)

turnout\_v Turnout rate in cantonal popular votes

T\_Geschlecht\_N Disproportionality of actual participation rates between gender groups (inverse)

## Minimal resources

## Social rights

kv\_sr\_work Constitutionally guaranteed right to paid work

**(Radical Dimensions Continued)**


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kv_sr_dwell	Constitutionally guaranteed right to housing
kv_sr_matmin	Constitutionally guaranteed rights to a minimal amount of material resources, in case of need to be provided by public funds
kv_sr_heal	Constitutionally guaranteed rights to the protection and advancement of one's health
Rights to education	
kv_sr_edurights	Constitutionally guaranteed right to (adequate) education
kv_sr_eduquant	Constitutionally codified public task to provide several educational services
kv_sr_eduacc	Constitutionally guaranteed right to an equal and easy access to the educational services
kv_sr_edugrat	Constitutionally guaranteed right to education free of charge
Inclusive representation	
Minority-friendly electoral system	
thresho_N	Effective threshold to get a seat in the cantonal parliament (inverse)
proporz3reg	Degree of proportionality of the electoral systems for parliamentary and governmental elections
parlmand	Number of seats in the cantonal parliament
Representation of parties in parliament	
rae	Rae index of parliamentary party fractionalization
Gallagher_N	Index for the effective disproportionality of the parliamentary electoral system, as proposed by Gallagher (inverse)
Voluntary proportional representation	
reg_konk	Cumulated vote share (in parliamentary elections) of all parties represented in government
kommprop	Average number of seats in parliamentary committees per party
Proportional representation of socio-structural groups	
Proportional representation by gender	
Frauenteil_gov	Share of female members in government
Frauenteil_parl	Share of female members in parliament
Proportional representation by age and profession	
Durchschnittsalte	Average age of the members of government and parliament (inverse)
disrep_prof_reg_	Disproportionality of the occupational groups' representation in government and parliament (inverse)

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