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## Debt, Growth and the Austerity Debate

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IN May 2010, we published an academic paper, "[Growth in a Time of Debt](#)." Its main finding, drawing on data from 44 countries over 200 years, was that in both rich and developing countries, high levels of government debt — specifically, gross public debt equaling 90 percent or more of the nation's annual economic output — was associated with notably lower rates of growth.

Given debates occurring across the industrialized world, from Washington to London to Brussels to Tokyo, about the best way to recover from the Great Recession, that paper, along with other research we have published, has frequently been cited — and, often, exaggerated or misrepresented — by politicians, commentators and activists across the political spectrum.

Last week, three economists at the University of Massachusetts, Amherst, released a [paper](#) criticizing our findings. They correctly identified a spreadsheet coding error that led us to miscalculate the growth rates of highly indebted countries since World War II. But they also accused us of "serious errors" stemming from "selective exclusion" of relevant data and "unconventional weighting" of statistics — charges that we vehemently dispute. (In an [online-only appendix accompanying this essay](#), we explain the methodological and technical issues that are in dispute.)

Our research, and even our credentials and integrity, have been furiously attacked in [newspapers](#) and on [television](#). Each of us has received hate-filled, even threatening, e-mail messages, some of them blaming us for layoffs of public employees, cutbacks in government services and tax increases. As career academic economists (our only senior public service has been in the research department at the [International Monetary Fund](#)) we find these attacks a sad commentary on the politicization of social science research. But our feelings are not what's important here.

The authors of the paper released last week — Thomas Herndon, Michael Ash and [Robert Pollin](#) — say our "findings have served as an intellectual bulwark in support of austerity politics" and urge policy makers to "reassess the austerity agenda itself in both Europe and the United States."

A sober reassessment of austerity is the responsible course for policy makers, but not for the reasons these authors suggest. Their [conclusions](#) are less dramatic than they would have you believe. Our 2010 paper found that, over the

long term, growth is about 1 percentage point lower when debt is 90 percent or more of [gross domestic product](#). The University of Massachusetts researchers do not overturn this fundamental finding, which several researchers have elaborated upon.

The academic literature on debt and growth has for some time been focused on identifying causality. Does high debt merely reflect weaker tax revenues and slower growth? Or does high debt undermine growth?

Our view has always been that causality runs in both directions, and that there is no rule that applies across all times and places. In a [paper](#) published last year with Vincent R. Reinhart, we looked at virtually all episodes of sustained high debt in the advanced economies since 1800. Nowhere did we assert that 90 percent was a magic threshold that transforms outcomes, as conservative politicians have suggested.

We did find that episodes of high debt (90 percent or more) were rare, long and costly. There were just 26 cases where the ratio of debt to G.D.P. exceeded 90 percent for five years or more; the average high-debt spell was 23 years. In 23 of the 26 cases, average growth was slower during the high-debt period than in periods of lower debt levels. Indeed, economies grew at an average annual rate of roughly 3.5 percent, when the ratio was under 90 percent, but at only a 2.3 percent rate, on average, at higher relative debt levels.

(In 2012, the ratio of debt to gross domestic product was 106 percent in the United States, 82 percent in Germany and 90 percent in Britain — in Japan, the figure is 238 percent, but Japan is somewhat exceptional because its debt is held almost entirely by domestic residents and it is a creditor to the rest of the world.)

The fact that high-debt episodes last so long suggests that they are not, as some liberal economists contend, simply a matter of downturns in the business cycle.

In “This Time Is Different,” our 2009 history of financial crises over eight centuries, we found that when sovereign debt reached unsustainable levels, so did the cost of borrowing, if it was even possible at all. The current situation confronting Italy and Greece, whose debts date from the early 1990s, long before the 2007-8 global financial crisis, support this view.

The politically charged discussion, especially sharp in the past week or so, has falsely equated our finding of a negative association between debt and growth with an unambiguous call for austerity.

We agree that growth is an elusive goal at times of high debt. We know that cutting spending and raising taxes is tough in a slow-growth economy with persistent unemployment. Austerity seldom works without structural reforms — for example, changes in taxes, regulations and labor market policies — and if poorly designed, can disproportionately hit the poor and middle class. Our consistent advice has been to avoid withdrawing fiscal stimulus too quickly, a position identical to that of most mainstream economists.

In some cases, we have favored more radical proposals, including debt restructuring (a polite term for partial default) of public and private debts. Such restructurings helped deal with the debt buildup during World War I and the Depression. We have long favored write-downs of sovereign debt and senior bank debt in the European periphery (Greece, Portugal, Ireland, Spain) to unlock growth.

In the United States, we support reducing mortgage principal on homes that are underwater (where the mortgage is higher than the value of the home). We have also written about plausible solutions that involve moderately higher inflation and “financial repression” — pushing down inflation-adjusted interest rates, which effectively amounts to a tax on bondholders. This strategy contributed to the significant debt reductions that followed World War II.

In short: many countries around the world have extraordinarily high public debts by historical standards, especially when medical and old-age support programs are taken into account. Resolving these debt burdens usually involves a transfer, often painful, from savers to borrowers. This time is no different, and the latest academic kerfuffle should not divert our attention from that fact.

*Carmen M. Reinhart is a professor of the international financial system, and Kenneth S. Rogoff is a professor of public policy and economics, both at Harvard.*

See also

## **[Responding to Our Critics](#)**

By CARMEN M. REINHART and KENNETH S. ROGOFF

In an appendix to an Op-Ed essay, two Harvard economists defend their findings that high public debt is associated with lower economic growth.