Introduction

French Favored Redistribution Derived From Surveys

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04/2017

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Overview







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- In almost every country, a majority of people supports that it is "the government's responsibility to reduce income differences" (ISSP 2009)
- In France: 60% are favorable (strongly or not) to "an increase of taxes in order to redistribute the surplus to the least fortunate" (PISJ 2009); 89% agree (strongly or not) that "differences between high and low incomes should be reduced" in their country
- Which reform do they want? What redistribution(s) would satisfy their desire for a reform while still obtaining a majority support?
- Few studies quantify the preferred distribution: Singhal (2008), Forsé & Parodi (2014) and Weinzierl (2013)

Data Parameters Determining the Redistribution

Data Collection (and Cleansing)

- Two surveys in autumn 2016: 1000 respondents each
- Attrition rate around 10%
- Special care for phrasing and quality of answers

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Data Parameters Determining the Redistribution

Sources and Variables

- Data from Enquête sur les Revenus Socio-Fiscaux (INSEE 2012)
- Main variable used: individual disposable income: Non-contributive social benefits imputed to the least contributor(s) of the household / other incomes imputed to their respective entitled person

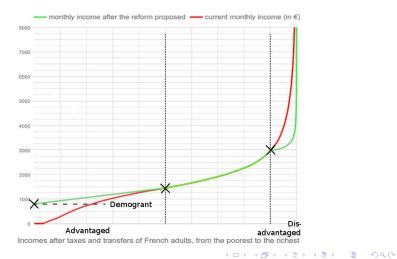
Custom interactive reform

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Data Parameters Determining the Redistribution

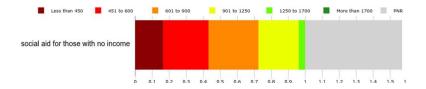




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Data Parameters Determining the Redistribution

Demogrant (€/month)



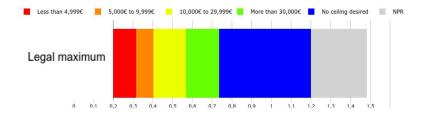
Median (1st sample): 800€/month

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Data Parameters Determining the Redistribution

Maximal (monthly) income



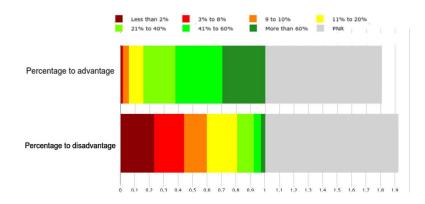
Median (1st sample): 100,000€/month

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Parameters Determining the Redistribution

Proportion to dis/advantage



Median: 50% (to advantage) / 10% (to disadvantage) • slider

Redistributions Derived From Surveys

Majority Adhesions to Proposed Redistributions Socio-demographic Determinants and Other Correlates Evaluations of Distributions: Triumph of Optimal Tax Theor

4 proposed reforms

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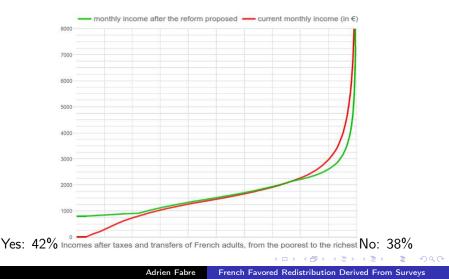
proposed reform	demogrant median	average	median	distortionary median
algorithm	demogrant	demogrant	Dis/adv	Dis/adv
distorsion	No	No	No	Yes
method	median	average	median	close to
	params	customized	params	median
				params
demogrant	800	859	800	550
advantage	77	58	50	50
disadvantage	23	42	10	12
Gini (current:	0.29	0.25	0.24	0.25
0.43)				
Transfer-to-GDP	0.09	0.12	0.12	0.12

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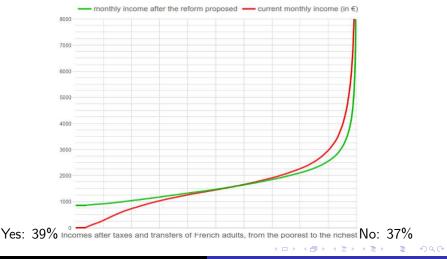
Algorithm Demogrant: "median demogrant"



Redistributions Derived From Surveys

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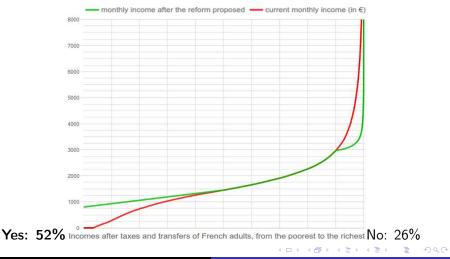
Algorithm Demogrant: "average"



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Algorithm Dis/adv: "median"



Redistributions Derived From Surveys

Majority Adhesions to Proposed Redistributions Socio-demographic Determinants and Other Correlates Evaluations of Distributions: Triumph of Optimal Tax Theor

Algorithm Dis/adv: "distortionary median"

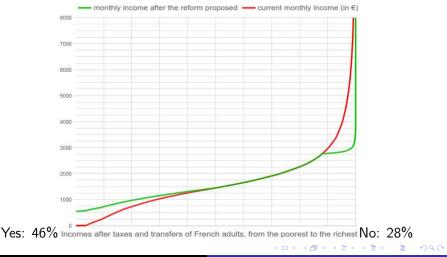


Table: Rate of approval of different proposed redistribution (in %). 95% confidence intervals are reported inside square brackets.

Proposed reform	Demogrant median	Average	Median	Distortionary median	Personalized
Number of respondents	488	509	505	492	1007
Yes	42	39	52	46	50
	[37.9; 46.5]	[35.1; 43.7]	[47.8; 56,4]	[41.1; 50.0]	[46.4; 52.6]
No	38	37	26	28	28
	[34.1; 42.6]	[33.0; 41.4]	[22.5; 30.1]	[23.7; 31.7]	[25.6; 31.1]
PNR	20	24	22	27	22
(People Not Responding)	[16.4; 23.3]	[20.1; 27.5]	[18.4; 25.5]	[23.2; 31.1]	[19.8; 24.9]
Yes, excluding PNR	52	51	67	62	64
	[47.6; 57.3]	[46.4; 56.4]	[61.9; 71.0]	[57.1; 67.2]	[60.2; 66.9]
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(2) 0.508*** (0.036) -0.125*** (0.031) -0.090*** (0.024)	(3) 0.091 (0.075) -0.087*** (0.014) -0.072 (0.053) 0.022 (0.032)
(0.036) -0.125^{***} (0.031) -0.090^{***} (0.024)	$\begin{array}{c}(0.075)\\-0.087^{***}\\(0.014)\\-0.072\\(0.053)\\0.022\end{array}$
-0.125^{***} (0.031) -0.090^{***} (0.024)	$\begin{array}{c}(0.075)\\-0.087^{***}\\(0.014)\\-0.072\\(0.053)\\0.022\end{array}$
(0.031) -0.090*** (0.024)	$\begin{array}{r} -0.087^{***} \\ (0.014) \\ -0.072 \\ (0.053) \\ 0.022 \end{array}$
(0.031) -0.090*** (0.024)	-0.072 (0.053) 0.022
-0.090*** (0.024)	0.022
	(0.032)
-0.019^{*}	-0.016
(0.010) 0.023***	(0.014) 0.017*
(0.007)	(0.009) -0.005
	(0.010) -0.019
	(0.032) 0.003 (0.009)
1,658	1,048
0.032	0.501
=	1,658 0.032 *p<0.1; **p<0.0

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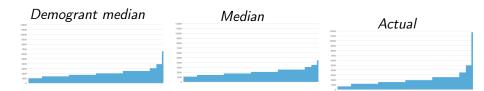
• The approval rate of 55% separates advantaged and disadvantaged

Table: Approval of a reform by (individual disposable) income level (in % and \in /month.), excluding people not responding (PNR).The cells in bold-italic correspond to those supposed to be disadvantaged by the reform.

Income (€/month)	\leq 1200	1201 to 1600	1601 to 2200	2201 to 3000	> 3000
PNR (any reform)	31	25	26	15	13
Approval (any reform)	75	64	58	56	38
median	79	71	61	73	53
distortionary median	76	66	67	63	35
demogrant median	69	63	58	49	26
average	75	56	48	42	35
Number of obs. (average)	66	66	86	68	92
Number of weighted obs. (average)	71	69	81	64	79

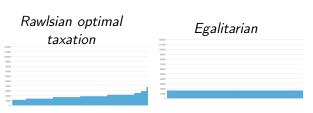
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Evaluated Distributions



Utilitarian optimal taxation

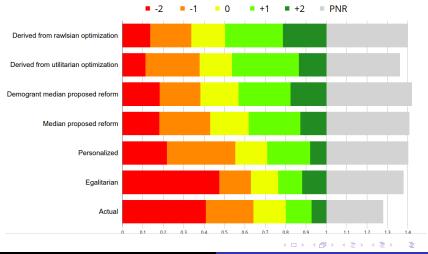




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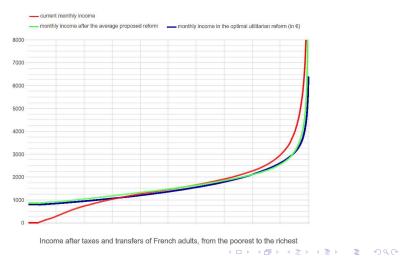
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Evaluations of the Distributions



A surprising Link With the Theory of Optimal Taxation Limits of This Work and Future Research A New Democratic Process to Choose Income Tax Rates

Figure: Comparison between average and optimal utilitarian



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Choice of the Individual Disposable Income

- significant number of very low incomes in the data, including 3.5 percents of people with no income: misleading (does not correspond to the reality)
- unclear effect of this bias
- => using household disposable income instead

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Simplification of the Redistribution Sought

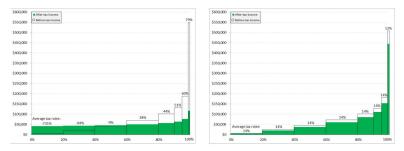
Need to precise the tax reform:

- add the minimum wage as a fourth parameter
- take into account the number of hours worked
- distinguish different situations from the benchmark: capital income, unemployment, retirement, students, or even gender or profession
- choose the budgetary cost of the reform

Framing

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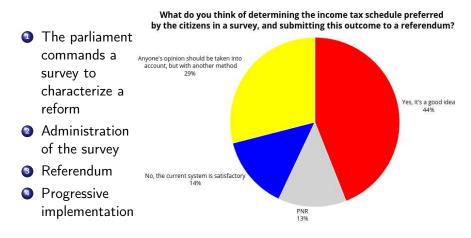
Figure: Example of question from Weinzierl (2013). Transparent boxes represent pre-tax income while green rectangles stand for after-tax income.



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Steps of the Process



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- Thank you for your attention !
- You can find everything on-line (the paper, the presentation, the data, a documentation, the codes, the figures, the questionnaire...):

adrien-fabre.com/documents.php#sondages

• You can even play with the algorithms to shape interactively your favored redistribution:

Dis/adv:

http://adrien-fabre.com/sondage/Politique%20des%20francais.html#q191 Demogrant:

http://adrien-fabre.com/sondage/Fiscalite%20des%20francais.html#q219

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- Adrien Fabre. International preferences for income distribution: Evidence from issp, 1987-2009. Master's thesis, Paris School of Economics, 2016.
- [2] Michel Forsé and Maxime Parodi. Les français et la justice fiscale. *Revue de l'OFCE*, 2014.
- [3] Laurence Jacquet, Étienne Lehmann, and Bruno Van der Linden. Optimal redistributive taxation with both extensive and intensive responses. *Journal of Economic Theory*, 2013.
- [4] Monica Singhal. Quantifying preferences for redistribution. 2008.
- [5] Matthew Weinzierl. The promise of positive optimal taxation: Normative diversity and a role for equal sacrifice. Journal of Public Economics, 2014.

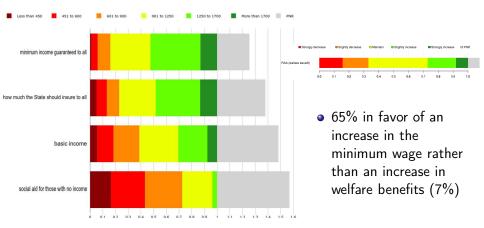
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Merchants, Brahmins and other casts (Piketty 2018 ctd.)

- lessRefugees: 39% ; proRedistr: 52%
- Corr(proRedistr, lessRefugees)=-0.08
- lessRefugees +++ higher degree, less income (but ++++ wealth)
- higher degree ↔ *** right wing, center, -extreme right
- 38% eurocritic (exit, exit if no change, or disobey) and 63% antiDeficit (0 or <3%)
- corr between these 4 variables \in [-0.17; 0.3]
- corr in lessRefugees, proRedistr & antiDeficit \in [-0.16; 0.08]
- all highly correlated with political leaning:

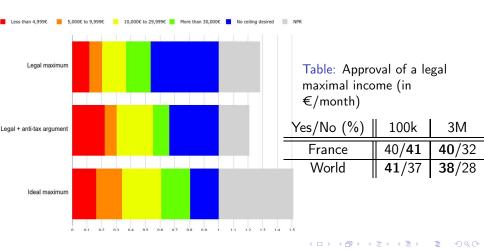
Left and Indeterminate + proRedistr Center and Right + antiDeficit Left and Center - lessRefugees Center - and Extreme Right + eurocritic Presentation of the Surveys Main Results Discussion References Appendices Other Results Robustness Checks Algorithms Used: Dis/adv Computations of the Income Tax Rates

Demogrant: variants



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Maximal (monthly) income: variants



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Other features of the tax system

- Approval of the marital quotient: 57% in favor; 26% against
- Net effect of the priming: 69% vs. 45% support
- 88% in favor of a simplification of the tax system (5% against)
- Majority for a merge between income tax and social contrib.
- Majority for taxation of imputed rents
- Majority to take into account life expectancy for the value of retirement pensions (and allow more flexibility)
- Majority support for an European basic income and corporate tax, but no majority for a common unemployment insurance
- Strong support for international redistribution: 80% in favor of a tax on the top 1% to finance the development of LDC, majority support for a transfer of 5% of the income of rich countries to poor countries, for a global tax on capital, for a cap and share system, for a global basic income, etc.

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Redistribution among different categories

Strongly decrease Slightly decrease Maintain Slightly increase Strongly increase PNR Women Retired people Minimum wage Students Homeless people Unemployed people RSA (social benefits) Executives Owners Shareholders GDP per capita Rents 0.1 0.2 Ó 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.1 1.2 1.

Desired evolution of income for different categories

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Using a Broader Sample

Table: Approval of proposed redistributions in the *augmented* sample

	Headcount	Approval (of any reform)		Non-answer
	(additional)	(2)	(3)	
In <i>augmented</i> (constant)	1,007	0.353***	0.563***	0.373***
		(0.015)	(0.019)	(0.013)
In <i>restricted</i>	1,994	0.100***	0.021	-0.150^{***}
		(0.019)	(0.023)	(0.017)
Includes non-answers	Yes	Yes	No	Yes
Observations	3,001	3,001	2,231	3,001
Note:			*p<0.1; **p<0.0	05; ***p<0.01
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Non Weighted Results

Table: Effect of weighting on approval of a reform

	Approval of a reform
Effect of weighting	-0.004
	(0.007)
Constant	0.452***
	(0.011)
Observations	1,994
Note:	*p<0.1; **p<0.05; ***p<0.01

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Quality of Responses

		Approval o	Non-answer			
	(1)	(2)	(3)	(4)	(5)	(6)
log of time response (for approval)	0.083 ^{***} (0.022)	0.027 (0.027)			-0.128 ^{***} (0.017)	
Misunderstanding graphical questions	. ,	. ,	-0.088 ^{***} (0.022)	0.008 (0.026)		0.165 ^{***} (0.018)
Constant	0.141 ^{**} (0.071)	0.410 ^{***} (0.088)	0.490*** (0.015)	0.566 ^{***} (0.016)	0.594 ^{***} (0.056)	0.135*** (0.012)
Includes non-answers	Yes	No	Yes	No	Yes	Yes
Observations	995	803	1,994	1,586	995	1,994
				-1-	-th -th	ala ala ala

Note:

 $^{*}p{<}0.1;\ ^{**}p{<}0.05;\ ^{***}p{<}0.01$

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Comparison with an Earlier and Indirect Estimation

Table: Characteristics of Distributions of Income

	Gini	D9/D1	Bott.50	Top10	Top1	Top0.1	Min	Dis-	Adv-	Transfer
equivalised disposable	0.308	3.441	0.298	0.258	0.072	0.031	-47			
actual	0.434	10.326	0.224	0.335	0.128	0.076	0			I
demogrant median	0.286	3.101	0.306	0.242	0.074	0.040	800	23	77	0.094
median	0.241	3.194	0.331	0.202	0.036	0.015	802	10	50	0.117
distortionary	0.251	3.815	0.321	0.186	0.026	0.008	550	12	50	0.116
average	0.250	2.797	0.331	0.224	0.053	0.019	859	42	58	0.117
earlier median	0.295	5.429	0.304	0.237	0.056	0.022	550	10	73	0.109

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1. reference curve



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2. narrowing the gap



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3. adjust for budget neutrality



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3.5 "linearize" the left end



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4. correct for behavioral responses



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Empirical and Dynamical Computation

- behavioral response $ho = \Delta z$
- aggregate change in pre-tax distribution is borne by a change in tax revenues and in aggregate disposable income: $\int \rho = \int \Delta T + \int \Delta c$

•
$$z_t = z_{t-1} + \rho_t = c_t + T_t = c_{t-1} + E_{t-1} [\Delta c_t] + T_{t-1} + E_{t-1} [\Delta T_t] + \rho_t - E_{t-1} [\rho_t]$$

•

$$\begin{aligned} T_{t+1}(q) &= T_t(q) + \mathsf{E}_t[\rho_{t+1}(q)] - \mathsf{E}_t[\Delta c_{t+1}(q)] \\ T_{t+1}^z(z) &= T_{t+1}(\mathsf{E}_t[q_{t+1}(z)]) \end{aligned}$$

• linear implementation of the reform => $\mathbf{E}_{t-1} [\Delta c_t] = \Delta c_{t-1}$, the response can simply be expected to be constant: $\mathbf{E}_{t-1} [\rho_t] = \rho_{t-1} =>$ tax schedule tractable
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Theoretical Approach

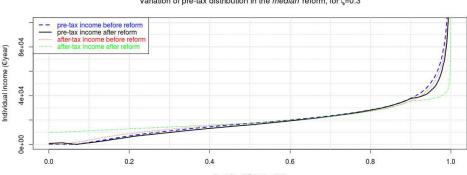
$$\begin{aligned} \zeta_z &:= \frac{1-T'}{z} \frac{\partial z}{\partial (1-T')} \\ c\left(q,t\right) &= z\left(q,t\right) - T\left(z\left(q,t\right),t\right) \end{aligned}$$

$$\frac{dc}{dt} = \frac{\partial z}{\partial t} \cdot \left(1 - \frac{\partial T}{\partial z}\right) - \frac{\partial T}{\partial t}$$
(1)

Using ζ_z , one obtains an Euler-Cauchy differential equation for $\frac{\partial T}{\partial t}$:

$$\frac{dc}{dt} = -\zeta_z \cdot z \cdot \frac{\partial^2 T}{\partial t \partial z} - \frac{\partial T}{\partial t}$$
(2)

Simulation of behavioral responses



Variation of pre-tax distribution in the median reform, for ζ=0.3

Quantile of French adults

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Summary statistics

Figure: Summary statistics of reform parameters for different samples

	first sample restricted			first sample augmented			final sample (both surveys)			
	median	PNR	obs.	median	PNR	obs.	median	95% C.I.	PNR	obs.
Advantage	50	175	449	50.00	315	645	50.00	[50; 50]	265	621
Disadvantage	10.0	206	500	10	357	699	10	[9; 10]	589	1325
Demogrant	750.00	77	253	800	151	369	738.4	[700; 800]	167	456
Maximal income	50000	44	243	1e+05	92	354	250000	[1e+05; Inf]	130	600

Survey Screen Shots: Disadvantage

À l'occasion d'une réforme fiscale qui opérerait une redistribution des plus riches vers les plus pauvres, **quelle proportion de français faudrait-il désavantager** par la réforme ? Ce qu'on appelle être désavantagé par la réforme, c'est voir ses revenus après impôts baisser par rapport à la situation actuelle, et cela concernerait les français les plus riches.

Le curseur ci-dessous vous aide à répondre à la question : le texte en-dessous du curseur change quand vous déplacez le curseur (en maintenant la souris appuyée sur sur le carré et en allant sur le côté). La valeur de ce curseur n'est pas enregistrée, vous devez donc reporter la valeur que vous aurez choisie dans le champs cidessous.

Parmi les français, 20% gagnent plus de 2450€/mois

Il faudrait désavantager une proportion de (en %) :

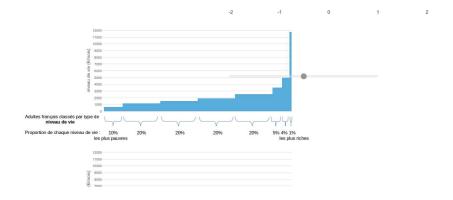
NSP (Ne sait pas, ne se prononce pas)

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Survey Screen Shots: Evaluations

Trois argnèse représentant les niveaux de vie des adultes français, des plus pauvres au plus riches, vous sont présentés les unes **not-essous des autres**. Par exemple, d'après le premier graphique, les 1% les plus riches auraient un niveau de vie de l'OTOS par mois (on pour line les valeures des graphiques en entestin sur les barres blues avec la souris). Les diffenets graphese montret comment de la França peu être répart entre les français, de façon plus ou moins égaillairs. Selon vos préférences en maître d'inégaillés, vous pouve arber chaque graphe, par une note entre - 2 (e n'aime pas cetter égaillés) : la suffit de déparer le cursue : d'ot de chaque courte. Il est viennemt recommandé d'aller pay pour voir tous les graphes avant de leur donner une note.



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Survey Screen Shots: Process of decision for the tax schedule

Actuellement, les taux d'imposition sont votés au Parlement. Ce n'est pas le seul processus possible : par exemple, il serait possible de déterminer le barème d'imposition préféré des citoyens à partir d'un sondage, puis de soumettre la proposition qui ressortirait du sondage à référendum. Pensez-vous qu'il faudrait consulter les citoyens de la sorte pour déterminer les taux d'imposition ?

- Oui, c'est une bonne idée
- Non, le système actuel est satisfaisant
- Il faudrait mieux prendre en compte l'avis de chacun, mais à l'aide d'une autre méthode
- NSP (Ne sait pas, ne se prononce pas)

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Survey Screen Shots: Demogrant

Quel devrait être le montant des aides de l'État pour les gens qui n'ont aucun revenu ?

O Celles et ceux qui ont pour seuls revenus les aides de l'État devraient toucher (en €/mois) :

NSP (Ne sait pas, ne se prononce pas)

Quel devrait être le montant mensuel du revenu de base en France ? Le revenu de base serait une allocation versée à chaque adulte sans aucune condition (comme l'âge ou l'activité), en remplacement des minima sociaux (RSA et APL notamment).

O Le revenu de base devrait être de (en €/mois) :

NSP (Ne sait pas, ne se prononce pas)

Quel est le revenu mensuel minimal que l'État devrait assurer à chacun e n France ?

Le revenu minimal mensuel que l'État devrait assurer à chacun-e est de (en €/mois):

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NSP (Ne sait pas, ne se prononce pas)

Quel devrait être le montant mensuel minimal garanti à tous les français ?

O Le revenu mensuel minimal garanti à tous devrait être de (en €/mois) :

NSP (Ne sait pas, ne se prononce pas)

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Survey Screen Shots: Maximal income

Selon vous, quel est le revenu maximal qui devrait être instauré légalement en France ? (revenu net par mois)

Le revenu maximal devrait être de (en €/mois):

Si la France était une société idéale, quel serait le revenu mensuel le plus élevé Précisons qu'on ne demande pas ici s'il faudrait imposer une limite légale aux revenus des français : il s'agit simplement de savoir quel serait le revenu le plus élevé dans une société avec le niveau aproprié d'inégalités.

☐ Idéalement, les revenus ne dépasseraient pas (en €/mois) :

NSP (Ne salt pas, ne se prononce pas)

Il pourrait y avoir des français infiniment plus riches que d'autres dans une société idéale.

On ne devrait pas instaurer de revenu maximal en France

NSP (Ne sait pas, ne se prononce pas)

Selon vous, quel est le revenu maximal qui devrait être instauré légalement en France ? (revenu net par mois) II peut être utile ici de rappeler qu'au-delà d'un certain seuil, l'imposition des plus riches est souvent contre-productive, puisque ces derniers partent à l'étranger ou réduisent leur activité pour éviter la hausse des taxes.

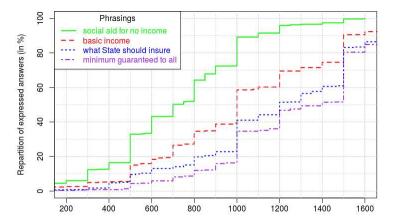
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Le revenu mensuel maximal devrait être de (en €/mois) :

On ne devrait pas instaurer de revenu maximal en France

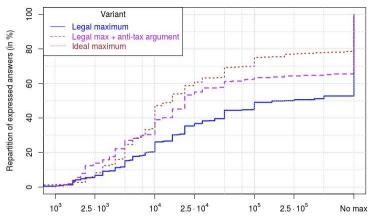
NSP (Ne salt pas, ne se prononce pas)

Raw Results: Demogrant



Desired amount for the demogrant, for different phrasings (in €/month)

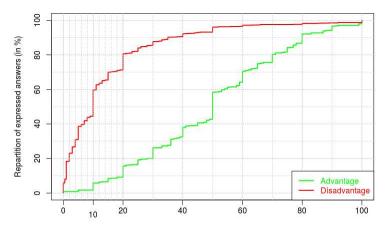
Raw Results: Maximal income



Desired amount for the maximal income, for different variants (in €/month, logscale)

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Raw Results: Dis/advantage

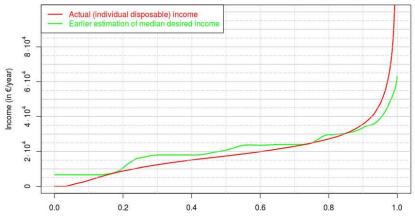


Desired proportion of people to dis/advantage through a income tax reform (in %)

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Earlier estimation (Fabre 2016)

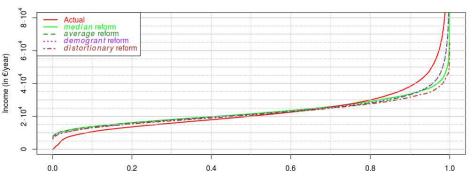


French adults, from the poorest to the richest

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Distribution in terms of equivalised disposable income



French adults, from the poorest to the richest

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Regressions: Effect of anti-tax argument

Table: Effect of an anti-tax argument on the desired maximum income

	log ₁₀ desired maximum income				
	Excluding infinities	Setting $\infty:=10^9$			
	(1)	(2)			
Anti-tax priming	-0.221***	-0.751^{***}			
	(0.071)	(0.201) 6.424***			
Constant	4.195***	6.424***			
	(0.043)	(0.113)			
Observations	392	686			
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Adrien Fabre French Favored Redistribution Derived From Surveys

Regressions: Differences in average distributions' evaluations

	Evaluation of distributions
Optimal utilitarian (Constant)	0.159***
	(0.048)
Median	-0.140**
	(0.069)
Actual	-0.926***
	(0.059)
Demogrant median	-0.078
	(0.069)
Egalitarian	-1.027***
	(0.069)
Personalized	-0.569***
	(0.069)
Optimal rawlsian	0.058
	(0.069)
Observations	5,883

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Regressions: Effect of displaying the impact of the reform on one's income

	Approval Approval (any reform)			Person Not Responding			
	(1)	(2)	(3)	(4)	(5)	(6)	
No display of impact on one's income	-0.008 (0.032)			0.013 (0.027)	-0.023 (0.034)	-0.054 (0.038)	
Misunderstanding the graphics	. ,	-0.095 ^{***} (0.022)	-0.004 (0.029)	. ,	0.262*** (0.038)	0.310*** (0.045)	
Left - Right leaning			-0.074*** (0.012)			0.016 (0.013)	
Misunderstanding & No display			()		-0.103^{*} (0.055)	-0.146^{**} (0.065)	
Constant	0.531*** (0.023)	0.495*** (0.015)	0.466 ^{***} (0.019)	0.230*** (0.020)	0.165*** (0.025)	0.142*** (0.028)	
Observations R ²	958 0.0001	1,994 0.009	1,196 0.031	958 0.0002	958 0.063	614 0.092	
• /				*	**	***	

Note:

*p<0.1; **p<0.05; ***p<0.01

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Regressions: Approval by political leaning

	Proportion	Misunderstanding	8 11 8 ,		5	Approval of <i>median</i> reform		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Extreme-left	0.019	0.180	0.583	0.788	0.647	0.844	0.590	
Left	0.218	0.384	0.565	0.691	0.683	0.769	0.743	
Center	0.096	0.387	0.405	0.496	0.509	0.643	0.657	
Right	0.156	0.424	0.371	0.439	0.484	0.627	0.604	
Extreme-right	0.098	0.368	0.355	0.417	0.401	0.519	0.459	
Indeterminate	0.413	0.509	0.443	0.634	0.613	0.648	0.635	
Includes non-answers	Yes	Yes	Yes	No	No	No	No	
Augmented sample	No	No	No	No	Yes	No	Yes	
Average		0.442	0.448	0.582	0.578	0.666	0.638	
Observations	2,004	2,004	1,994	1,586	2,196	399	559	