Margill Standard Edition <u>4.1</u> Interest Calculator

OVERVIEW OF WINDOWS

AND MAIN FEATURES



Windows 7 Windows 8



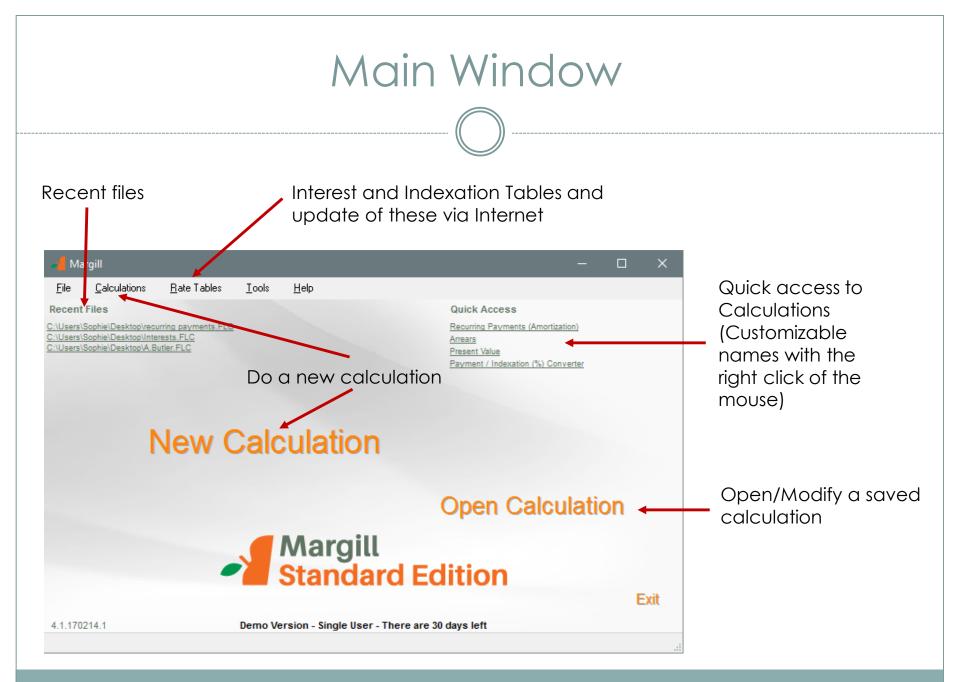






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Interest between two dates

📕 Interest bet	ween 2 Date	es (Simple	or Compou	nd Interest)		-	
Compute - F5	Open	Clear	Calculator	Calendar	Exit	l Client Info	Advanced
Heading <u>1</u> Heading <u>2</u>	Customize This will a						
Starting <u>D</u> at Endi <u>ng</u> Date				2007-06-01 2016-01-01			
Calculation	Met <u>h</u> od	Norma	l (Compoun	d, Effective F	Rate) Equ	al Periods	•
Co <u>m</u> poundir Annual Nom		%)	Monthly	▼ 5,0000	%		
<u>P</u> rincipal				50 000,00	\$		
						Intere	st <u>T</u> able

Simple, quick and precise calculation

- Calculate the interest between two dates
- Simple interest, compound interest, capitalized simple interest
- Fixed or variable interest rates

Calculation Results

E Customize your headers						
	_ \$L''		This wi	ill appear on the re	port	
Print Si	ave Export	Exit Client Info			port	
Bringinal		50 000.00		Total Interest		26 7 30,43 \$
Principal		3 1		rotar Interest		20730,433
Days				Grand Total		76 770 47 4
Daily Interest st	arting January 1, 2016	10,73	\$	Grand Iotal		76 730,43 \$
Hide/Show Columns	Interes	t between 2 dates	- Monthly	- Normal (Compou	ind, Effective Rate) Equal Periods	
Start Date	End Date	Rate	Days	Total Interest	Total	
2007-06-01	2007-07-01	5,0000 %	30	208,33 \$		50 208,33 \$
2007-07-01	2007-08-01	5,0000 %	31	209,20 \$		50 417,53 \$
2007-08-01	2007-09-01	5,0000 %	31	210,07 \$		50 627,60 \$
2007-09-01	2007-10-01	5,0000 %	30	210,95 \$		50 838,55 \$
2007-10-01	2007-11-01	5,0000 %	31	211,83 \$		51 050,38 \$
2007-11-01	2007-12-01	5,0000 %	30	212,71 \$		51 263,09 \$
2007-12-01	2008-01-01	5,0000 %	31	213,60 \$		51 476,69 \$
2008-01-01	2008-02-01	5,0000 %	31	214,49 \$		51 691,18 \$
2008-02-01	2008-03-01	5,0000 %	29	215,38 \$		51 906,56 \$
2008-03-01	2008-04-01	5,0000 %	31	216,28 \$		52 122,84 \$
2008-04-01	2008-05-01	5,0000 %	30	217,18 \$		52 340,02 \$
2008-05-01	2008-06-01	5,0000 %	31	218,08 \$		52 558,10 \$
2008-06-01	2008-07-01	5,0000 %	30	218,99 \$		52 777,09 \$
2008-07-01	2008-08-01	5,0000 %	31	219,90 \$		52 996,99 \$
2008-08-01	2008-09-01	5.0000 %	31	220.82 \$		53 217,81 \$

Days	3136
Total Interest	26 730,43 \$
Total	76 730,43 \$
Daily Interest starting January 1, 2016	10,73 \$
Interest between 2 Dates	Compound, Effective Rate) Equal Periods
Compounding Period	Monthly
Day count	Actual/Actual
Year base	Anniversary

- Sum of the totals calculated by period
- o Detailed totals

- o Detailed printed report
- o Per diem
- Export to PDF and other formats

Recurring payments

(Amortization, Loan, Mortgage, Line of credit, Collection, Accounts receivable)

Recurring Payments			– 🗆 X
Compute - F5 Open Clear	Calculator Calendar	Exit Client	Info APR Advanced
Heading 1 Customize your h Heading 2 This will appear o			
Calculation Method Normal	•		
Origination Date First Payment Date Annual Nominal Rate (%)		mpounding Period ment Frequency	Semiannually Monthly
	Pay	rment Method	Normal 💌
Principal Number of Payments		rment ance	982,06 \$ 📰 0,00 \$ 🗐
			Interest <u>T</u> able

Recurring payments

- Very powerful calculation!
- Simple, Compound or Capitalized simple interest
 - Various compounding periods and payment frequencies
- Regular and Irregular payments
- Calculation of the unknown variable:
 - Payment, number of payments, interest rate or principal
- Annual Percentage Rate (APR)
- Calculation at a fixed rate or at variable rates (interest table)
- Add information on borrower

Recurring payments (Preliminary Irregular Payments)

$\overline{\}$
Monthly
Irregular 👻 🔻
Normal 🔻

Irregular Payments Posting

Enter date and payment amount if the payments are mostly irregular. These can also be changed and updated once the Schedule is produced. A negative amount will add Principal.

If payments are somewhat regular, choose instead the "Payment Frequency" that most closely matches the payments made and adjust the Schedule with the true dates and amounts. You will save time.

Do not show again

	Irregul	ar Payments		
Pmt Date	Payment Amount	Comment (Optional)		
2016-06-06	1 500,00 \$		•	
2016-07-07	2 500,00 \$			
2016-12-19	650,96 \$			
2017-01-01	-25 000,00 \$	Additional Principal		
			r	
Delete line	Save	Clear Data Close		

Insert the known irregular payments before creating the Results table

- Easily insert irregular payments
- Insert additional principal at any date
- You can modify payments, add other payments, delete payments in the Results table afterwards

Results table – Recurring payments

- Result	ts - Recurring P	'ayments*						- C	ı x
Print	Save		> i	fo					
	Payments = 60				Prin	cipal		50 000,00 \$	
Negative	Payments = 1				Tota	l Interest		8 7 2 5, 2 2 \$	
Balance			2 119,60 \$		Tota	d		58 725,22 \$	
Hide/Show	Columns		Normal (Co	mpound, Effe	ctive Rate) Equal	Periods - Con	pounding Annually		
Line	Pmt Date	Payment	Rate	Principal	Interest	Balance	Comment	7	_
1	2016-06-01	982.06 \$	0.0000 %	982.06 \$	0.00 \$	49 017,94	\$ First three months without interest		
	2016-07-01	982,06 \$	0,0000 %	982,06 \$	0,00 \$		\$ First three months without interest		
3	2016-08-01	982,06 \$	0,0000 %	982,06 \$	0,00 \$	47 053,82	\$ First three months without interest		
4	2016-09-01	982,06 \$	7,0000 %	716,01 \$	266,05 \$	46 337,81	\$		
5	2016-10-01	982,06 \$	7,0000 %	720,06 \$	262,00 \$	45 617,75	\$		4 1
6	2016-11-01	1 200,00 \$	7,0000 %	942,07 \$	257,93 \$	44 675,68	\$ lump sum payment		
	2016-12-01	1 200,00 \$	7,0000 %	947,40 \$	252,60 \$		\$ lump sum payment		
	2017-01-01	1 200,00 \$	7,0000 %	952,75 \$	247,25 \$		\$ lump sum payment		
	2017-02-01	982,06 \$	7,0000 %	740,20 \$	241,86 \$	42 035,33			
	2017-02-01	-1 500,00 \$		-1 500,00 \$	0,00 \$		Additional Principal - Loan # 2		
	2017-03-01	246,16 \$	7,0000 %	0,00 \$	246,16 \$		\$ Refund interest only		
	2017-04-01 2017-05-01	246,16 \$ 982.06 \$	7,0000 % 7.0000 %	0,00 \$ 735.90 \$	246,16 \$ 246,16 \$	43 535,33 42 799,43	\$ Refund interest only		Determ
	2017-05-01	982,06 \$	7,0000 %	740,07 \$	240,10 \$	42 059,36			Balance Option
	2017-00-01	982.06 \$	7,0000 %	744.25 \$	237.81 \$	41 315.11			TTT
		000,000	7,0000 /0	710.100	200,01 0	10 500 05		•	TT
Day Cour	Normal (Compo nt: Actual/Actua Method: Norma		Equal Periods			D	elete - Selected Lines		
Line: 24	Total Payme	ents: 20 269,40 \$	Total Interest: 4	694,00 \$	Total Principal: 15 5	575,40 \$ In	terest Rates 🔸		
						Pa	ayments •	Modify Payment	- Selected Lines
						G	alculation Method	Payments Adjust	ed for Balance =
						Pa	yments, Principal and Interest - Selected Lines	Refund Interest	Only
						G	рру	Refund Fixed Prin	ncipal
						0	ppy All		
						E	oport Table to Excel		
						E	oport Table to Word		
						E	port Table to XML		
						·			

Results table

- A preliminary Results table is first created
- You can then adapt it to multiple payment scenarios
 - Unpaid payments
 - Late and Partial payments
 - Additional payments
 - Interest-only
 - Fixed Principal
 - Lump sum payments
 - Add principal at any moment
 - Insert / Delete lines
 - Extend the loan and recalculate payments
 - Add lines comments
 - Change interest rates
 - The right click of the mouse offers multiple powerful options!

The powerful right mouse click

Delete - Selected Lines	
Interest Rates	
Payments •	Modify Payment - Selected Lines
Calculation Method	Payments Adjusted for Balance = X
Payments, Principal and Interest - Selected Lines	Refund Interest Only
Сору	Refund Fixed Principal
Copy All	
Export Table to Excel	
Export Table to Word	
Export Table to XML	

The right mouse click

proposes several choices according to the calculation:

- Modify several payment amounts at once
- Recalculate (adjust) payments for a final balance
 = 0.00 or other lump sum final payment
- Modify Interest rates
- Recalculate Interest rates
- o Interest-only for part of the loan
- Fixed principal for part of the loan
- Export Results table to Excel
- o Special calculation methods
- o And others...

Annual Percentage Rate (APR)

Please enter one or m	APR Setti any of the follo	-	
Administration Fees		50,00	Paid up-front
Insurance		\$ 150,00	Subsequently Pai
Thers Fees		\$ 500,00	Financed
Commission	2,0000 %		Paid up-front
Points Paid	3,0000 %		Paid up-front

Margill - Al	PR Information	×
i	APR Finance Charge Amount Financed Total Payment Balance Nominal Rate: Rate compounded: Mon Nominal = 10,0000 %	15,9470 % 5 725,48 \$ 23 225,00 \$ 28 800,48 \$ 0,00 \$ nthly Effective = 10,4713 %
	APR: Nominal = 15,9470 %	Effective = 17,1658 %

APR

X

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•

•

• •

- Calculation of the Annual Percentage Rate and APY (Annual Percentage Yield)(effective APR)
- Up to 5 types of fees (names can be customized)
- Fees can be :
 - Paid-up front
 - Financed (included in the Principal)
 - Subsequently Paid
- o Rates up to 9999%
- Calculations for most jurisdictions

Arrears (Salaries, Pensions, Rents, etc.)

مَنْ مَحْدَثُمَ اللَّهُ اللَّهُ mpute - F5 Open Clear	Calcula	tor Calenda	1 r	Exit Client			
Heading <u>1</u> Customize your head Heading <u>2</u> They will appear on t		ort		1			
Calculation Method Compounde	ed, Effe	ctive rate 💌		Indexation	CT (21		
		2015/06/06	eee	US	CPI		
			_	Date	Rate		
		2015/06/20	Ē	1982/01/01	8.9000 %		
Arrears Frequency E	By day(s) 🔻		1983/01/01	3.8000 %		
Days per Period		14	E.	1984/01/01	3.8000 %		
		14	-	1985/01/01	3.9000 %		
End of Period			Ê	1986/01/01	3.8000 %		
				1987/01/01	1.1000 %		
Arrear per Period		\$525.00	F	1988/01/01	4.4000 %		
Arrear per Period Annual Nominal Rate (%)		12.0000 %	L	1989/01/01	4.4000 %		
		12.0000 //		1990/01/01	4.6000 %		
				1991/01/01	6.1000 %		
 Inde<u>x</u> Arrears 				1992/01/01	3.1000 %		
Capitalize every line, even if	if = 0.00 ?			1993/01/01	2.9000 % 💌		
				Interest Tab	ble		

Arrears

- Calculation of Simple interest, Compound interest or Simple interest capitalized
- Fixed or variable Interest rates
- Various arrears frequencies including by x days (7, 14 days, etc.)
- Regular and Irregular arrears
- o Indexation of the arrears

Results table – Arrears

Export Table to XML...

Result	ts - Arrears - ar	rears.FLC		[_	_	_	_	_	- 0	×	
IEI,	ር ጉ	E.		;	Customize	your headers						
Print	Export	Save	Exit	Client Info	This will ap	pear on the report	:					
												L
												L
	r Period			-	525,00 \$ 1 035				Total Arrears	16 837,48 \$ 2 096,52 \$		I.
iys :									Total Interest Grand Total	18 768.37 \$		I.
illy Inte	erest starting A	pril 1, 2017			4,24 \$				Grand lotal	18 /08,3/ \$		L
e/Show	Columns					Arrears - Simple 1	Interest Capita	lized				l
ine	Arrear Due	Arrear	Rate	Days	Interest	Total	Interest		Comment	Ш		l
	Date						Generated				\equiv	I.
	2014-06-01	525,00 \$	8,2500 %	0	0,00 \$	525,00 \$	137,70 \$			<u> </u>		1
	2014-07-01	525,00 \$	8,2500 %	30	3,56 \$	1 053,56 \$	133,24 \$				-	1
	2014-08-01		8,2500 %	31	7,38 \$	1 585,94 \$	128,65 \$					1
4	2014-09-01	525,00 \$	8,2500 %	31	11,11 \$	2 122,05 \$	124,11 \$				=	1
5	2014-09-10	-525,00 \$	8,2500 %	9	4,32 \$	1 601,37 \$	-122,79 \$	Arrears of 2014-09-01 - Pa	d		<u>_</u>	1
6	2014-10-01	525,00 \$	8,2500 %	21	7,60 \$	2 133,97 \$	119,73 \$				\sim	1
7	2014-11-01	525,00 \$	8,2500 %	31	14,95 \$	2 673,92 \$	115,24 \$					1
8	2014-12-01	525,00 \$	8,2500 %	30	18,13 \$	3 217,05 \$	110,93 \$	Amount indexation				1
9	2015-01-01	525,53 \$	8,2500 %	31	22,54 \$	3 765,12 \$	106,61 \$					ł
10	2015-02-01	525,53 \$	8,2500 %	31	26,38 \$	4 317,03 \$	102,21 \$					-
11	2015-03-01		8,2500 %	28	27,32 \$	4 869,88 \$	98,27 \$			Delete - Selected Lines		
12	2015-04-01		8,2500 %	31	34,12 \$	4 869,88 \$		Paid - Check # 4563				_
	2015-05-01		8,2500 %	30	33,02 \$	5 428,43 \$	89,75 \$			Modify Rate - Selected Lin	les	1
33	Total Arrear	s : \$ 15 783.2	6	Total Inte	erest: \$ 1 727.83	Total: \$ 17 511	.09			Modify Arrear - Selected L	ines	ι
										= /		
										Arrears and Interest - Sel	ected	L
										Copy		
										Conv. All		
										Copy <u>A</u> ll		
										Export Table to Excel		
										Export Table to Word		

Table of the Arrears due

- You can adapt the Results table:
 - Paid Arrears (thus 0,00)
 - Late Arrears
 - Additional or irregular Arrears
 - Insert / Delete lines
 - Extend the duration of the Arrears
 - Add line comments
 - Interest amount generated by each of the arrears individually
 - The right mouse click offers multiple powerful options!

Present Value

Present Value*								_	
	,∃ ff		f	<u>ц</u> >					
compute - F5 Open Save	Print Clear	Calculator	Calendar	Exit					
Heading <u>1</u> Customize your he	eaders								
Heading <u>2</u> This will appear or	the report								
Date of First Installment	2012-06-01 🕮			Present Value			dexation	~	
		Line	Date	Installment	Installment PV	-		PI IPC	
Installment Amount	500,00 \$ 📄	38	2015-07-0 ⁻	517,70 \$	377,68 \$	▲	Date	Rate	
C Number of Installments	49 🖬	39	2015-08-0 ⁻	517,70 \$	374,56 \$	2	009-01-01	2,3000 %	•
		40	2015-09-0 ⁻	517,70 \$	371,46 \$	2	010-01-01	0,3000 %	-
 Date of Last Installment 	2016-06-01 🞬	41	2015-10-0 ⁻	517,70 \$	368,39 \$	2	011-01-01	2,4000 %	
Discount Rate (Annual)	10,0000 % 📄	42	2015-11-01	517,70 \$	365,35 \$	2	012-01-01	2,3000 %	
		43	2015-12-0 ⁻	1 000,00 \$	699,88 \$	2	013-01-01	0,8000 %	
Installment Period	Monthly 👻	44	2016-01-0 ⁻	1 000,00 \$	694,09 \$	2	014-01-01	1,2000 %	
Number of Day(s) (per Period)	0	45	2016-02-0 ⁷	1 000,00 \$	688,36 \$		015-01-01	1,5000 %	
Days per year	365	46	2016-03-0 ⁻	525,98 \$	359,07 \$	2	016-01-01	1,6000 %	-
		47	2016-04-0 ⁻	525,98 \$	356,10 \$				
Present Value *	21 442,10 \$	48	2016-05-0 ⁻	525,98 \$	353,16 \$				
	21 442,10 \$ 0.	49	2016-06-0 ⁻	525,98 \$		키			
 <u>I</u>nstallment Indexation 						T	T		

Present Value

- Evaluation of the value of a company or of an investment
- Calculation of the unknown variable
- Irregular installment amounts
- Multiple installment frequencies including every x days
- Installments can be indexed
- o Up to 36 000 installments

Other calculations Indexation of an Amount ட> Ш Amount Indexation Exit Compute - E5 Print Clea Calculator Calenda Indexation CIRI Calculation of the present or Indexation Table CA-CPI IPC historic unknown value 7 1 Date Amount Date Rate Amount to be Indexed 2001-01-01 5 135,00 \$ 🔺 5 000,00 \$ 1973-01-01 4.8000 % 2002-01-01 5 268,51 \$ 1974-01-01 7,7000 % Start Date 2000-09-09 [5 384.42 \$ 1975-01-01 10,7000 % 2003-01-01 Annual Rate of Return \cap 5 535,18 \$ 2004-01-01 1976-01-01 10 9000 % End Date 2016-06-06 2005-01-01 5 640,35 \$ 1977-01-01 7,5000 % 5 764.44 S 1978-01-01 7.8000 % 2006-01-01 6 794,55 \$ Nominal rate / Effective rate 2007-01-01 5 879,73 \$ 💌 \cap 1979-01-01 9,0000 % 🔻 Display the Indexation table conversion and vice versa Rate Converter 뻬 Equivalent rates Annual Rate of Return Clear Calculato Calenda Exit Sales taxes calculation Simple Conversion ĪT (multiple juridictions) Compounding Period Semiannually Ŧ -Clear Calculator Exit Calenda Several other calculations... Nominal Rate 24,0000 % Starting Date 2016-06-01 🞬 Amount Invested 5 000,d Effective Rate 25,4400 % Ending Date 2016-12-01 🞬 Amount Returned 6 500,0 Equivalent Rates Annual Effective Rate of Return (%) 68,818 Compounding Period Monthly Format --> YYYY-MM-DD Equivalent Nominal Rate 22,8811 %

Calculation options

- Simple, Compound or Simple Interest Capitalized
 Multiple compounding periods
- Day count
 - o Actual/Actual, Actual/365, 30/360, Actual/360
- Year base:
 - Anniversary and Civil Year (cutoff at December 31st for proper leap year management)
- Fixed or variable rates
- Simple Interest calculation for "short periods"
- For weekly compounding period calculations, option of 52 weeks per year or 365/7=52.1428 and other

Other features

- Installation on Windows PC, server or on the Cloud
 - On Mac via Parallels (Windows emulator)
 - Citrix installations
- Single user ou multi-user (Network)
- Currency and date based in your Windows
- Very user-friendly interface
- Learn the basics in 30 minutes
- Quick Start the big reference User Guides available
- Training available

Who is using Margill Standard Edition

- Margill's customers are located in over 38 countries
- Clientele types:
 - Accountants
 - Actuaries
 - Financial planners
 - Governments and public agencies
 - Jurists (lawyers, bailiffs and judges) (Law Edition suggested)
 - o Cities and towns
 - Public and private companies
 - o Unions
 - o Individuals

Comments

"I want to thank you for the past years and the beneficial relationship we have had with your Company. You provide a valuable piece of software, and your support was always prompt, professional, and polite. My favorite three "p"s.

> Craig P. Christiansen Danville Corporation

"We've recently switched from our prior software to Margill and are delighted with its flexibility and reporting features. Its remarkably intuitive and as a result easy to use. We are a small accounting firm and are fairly demanding users and find the Margill product produces excellent working papers and provides a wide range options. We cannot recommend it highly enough.."

> Reid Fraser, Partner Colin Fraser Financial Service Ltd.

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• 30-day trial version (full edition):

www.margill.com/try/margill-trial-en.asp

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