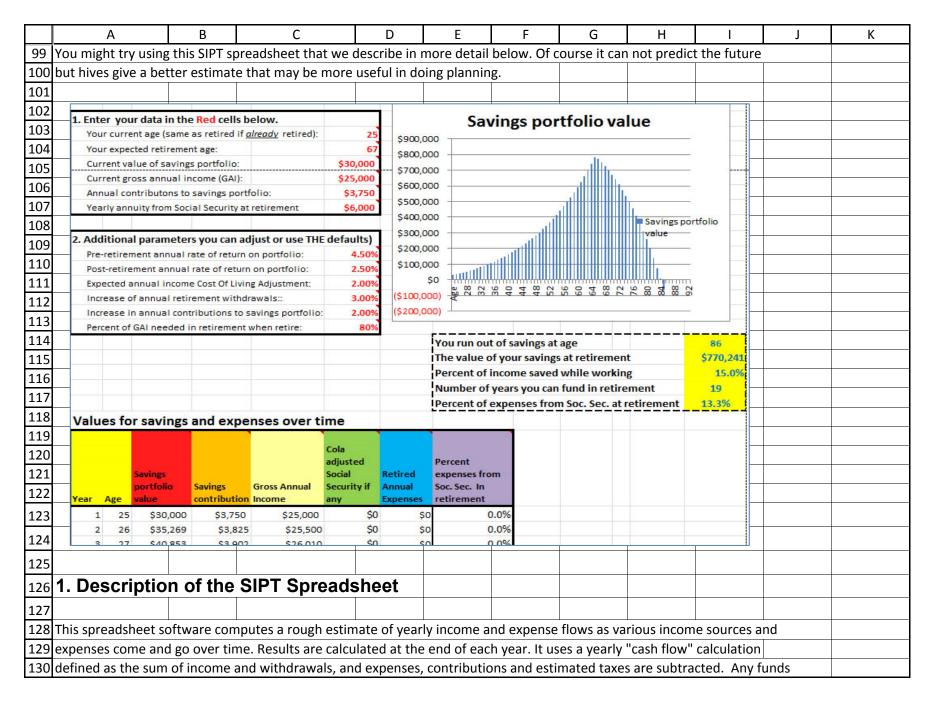
	А	В	С	D	Е	F	G	Н	I	J	K
1	File: SIPT.xls		Elementary glide-	path calcu	lator (Sim	oleCalc)		Next SIPT	workshee	t (Assump	tions)
2											
3	Simplified I	ncome	-Stream Plar	nning T	ool						
4	Calculate a financ	cial Glide-I	Path from yearly C	ash-flows,	Income St	reams, Exp	enses, Inv	estment A	Accounts a	nd Taxes	
5											
6	This Excel spreadsh	neet is a pla	nning tool for peop	le who wan	t to plan fo	r future sav	ing and spo	ending need	s, want to	get rough	
7	estimates of their	saving and	spending patterns o	ver time. Yo	ou must be	willing to e	nter <i>summ</i>	aries of a w	ide variety	of your pe	rsonal
8	financial data requ	ired by th	e model including ap	plicable in	vestments	taxable and	d retiremer	nt), pension	, Social Sec	urity, work,	
9	annuity, and exper	ses. The fi	nal results are show	n in summa	ry tables ar	nd glide-pat	h graphs o	f those tab	les. All data	are	
10	entered and calcu	lated in this	s spreadsheet. No da	ata are exp	orted or sav	ed from the	e spreadsh	eet (either l	ocally or to	the Interne	et).
11	Once the data ente	ered, the sp	readsheet estimate	s yearly cas	h-flows usi	ng income f	rom variou	s sources: \	Work, Pens	ions, Social	
12	Security, Annuities	, and Life Ir	nsurance benefits; c	ontribution	ns and with	drawals fro	m tax-defe	rred IRAs, F	Roths and S	avings	
13	investment accoun	nts. It estim	ates yearly investm	ent returns	and taxes	on investme	ent returns	, expenses.	Next it esti	mates year	у
14	Federal tax rates a	nd resulting	g cash-flows. It allov	vs for sched	luled and ir	regular cont	tributions a	and withdra	wals for in	vestment	
15	accounts (IRA, Rot	h, Savings)	as well as scheduled	l-and-irregu	ılar expense	es and dedu	ctions and	then calcul	ates yearly	net worth.	
16	It can be useful for	investigati	ng various planning	scenarios b	y making c	hanges and	seeing hov	v that affec	ts the resul	ts.	
17											
18	It can be run in a va	ariety of sp	readsheet programs	such as W	indows Exc	el, the free (OpenOffice	or LibreOf	fice "calc",	Google	
19	"sheet", etc. since	it doesn't u	se Microsoft Visual	Basic becau	ıse VBA ma	y not be ava	ailable in a	ll spreadshe	et progran	ns. Apple	
20	"numbers" spreads	sheet progr	am has some incom	patibilities,	, so use one	either Exce	el for Mac o	r one of the	e free sprea	adsheet	
21	programs. Apple "i	numbers" s	preadsheet progran	n has some	incompatib	ilities, so us	se either Ex	cel for Mac	or one of t	:he	
	free spreadsheet p	rograms. T	he spreadsheet does	s not save d	lata on the	Internet.					
23											
24	So why model? Alt	hough all n	nodels will be inaccu	ırate, havin	g a rough e	stimate can	be useful t	for planning	g purposes.	in the	
			nise between compl								
			in George Box noted								
			rate the concept tha							ept of	
	glide-path before ι	ising the fu	II SIPT spreadsheet	that uses a	much more	complete f	inancial pla	anning mod	el.		
29											
_	Recent revisions:	Revised:	12/9/2015		V.0.22.4	Beta**					
31		Revised:	7/14/2016			Beta**					
32		Revised:	7/20/2016			Beta**					
33		Revised:	8/7/2016		V.0.24.16	Beta**					

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34	See	Appendix D	<u>)</u>	for list of o	utstanding i	ssues (thing	gs TODO), a	nd extende	d REVISION	-LIST	
35											
36	Note: The spreadsh	neet will be	revised each year af	ter new Tax	Tables & C	ap-Gains/Di	iv. rates & t	ax rules are	announced	•	
37											
38	© P. Lemkin 2012-2	2016									
39	GNU General Public	c License, ve	ersion 3.0 (GPLv3) at	<u>-</u>	http://oper	nsource.org	/licenses/g	ol-3.0.html			
40	See the full license de	escription sec	ctions 15. Disclaimer o	of Warranty a	and 16. Limita	ation of Liabi	lity for detail	ls.			
41											
42	** For more on Bet	a-level soft	ware see	https://en.	wikipedia.o	rg/wiki/Soft	tware_relea	se life cyc	<u>le</u>		
43											
44	"Forever	Rota"									
45	i i										
46			o wait - one more ti								
47											
48	Version 0.123.8 Well, still not quite there yet. (2) Done! (1)										
49	!	Version	0.123.9 Added a n	ew feature	competing	software h	as. 🙉 Dor	ne! 🙂			
50		Versi	on 0.123.10 Oops,	didn't impl	ement feati	ire correcti	ly. 😕 Doi	ne! 🙂			
51	<u></u>		15 M	7.0	175		M. I North				
52	{	•	••								
53	<u> </u>										
54	Cartoon by Ta	rTar, 10-15	-2015						<u> </u>		
55		-									
\perp	Table of Conte	nts for In	troduction								
-	Introduction										
	1. Description of th	•									
59	<u>_</u>	•	ions that can be inve	estigated us	ing this spre	eadsheet					
60	1.2 The types of										
61	1.3 How the spre										
62			drawals and Expens								
63		g - Running	out of money and a	ge entry ch	ecking						
	2. Disclaimer										
-	3. Directions for us										
66	4. Discussion of the	list of all w	orksheet tables in A	ppendix A							

	А	В	С	D	Е	F	G	Н	I	J	K
67	5. Notes on current	version of	the spreadsheet								
68											
69	Documentation in	n addition	al worksheets								
70	Click on the any of	the followir	ng hyperlinks to go to	the works	heets						
71	<u>Assumptions</u>	Summary I	ist of all settings in S	etup, and A	geData thro	ough Expen	seData wor	ksheets			
72	<u>Results</u>	Glide-path	of income from Inco	me & Witho	drawal sour	ces less Exp	enses & Ta	xes			
73	Resources	Lists of arti	cles, literature, web	sites relate	d to financia	al planning					
74	<u>Figures</u>	Screen sho	ts & descriptions illu	strating hov	w the sprea	dsheet worl	ks				
75	Appendix A	List of all w	orksheets describing	g their table	s and section	ons					
76	Appendix B	Extra calcu	lators (not tied in wi	th the rest o	of the sprea	dsheet)					
77	Appendix C	Glossary - o	definitions of terms (used in the s	spreadshee	t					
78	Appendix D	List of outs	tanding issues (Thing	gs TODO an	d CHECK), a	nd REVISIO	N-LIST Histo	ory			
79	FAQ	Answers to	Frequently Asked O	uestions							
80											
81											
82	Introduction										
83											
84	The Concept										
85	While you are savir	ng for future	e expenditures such	as retireme	nt, a new h	ouse, colleg	e education	for your ch	nildren you		
86	might wonder if yo	u are saving	g enough or spending	g too much	on current	expenses. A	glide-path	analysis let	s you look		
	·		w does it change wit								
			are being depleted d				•	•			
			still on track to reac	h your goals	s, and if not	what might	t you chang	e to improv	e your		
	retirement glide pa	ith.									
91		_									
	·		Planning Tool (SIPT						· ·		
	·		ely - both for near te								
94			e on-line (see RS. Re								
_	types of calculation	<u> </u>		SimpleCalc			. The follow	irig screens	not snows s	some	
96 97	typical data and res	suits. In this	example, the portfo	ono value we	ent to zero	at age 86.					
	This CIDT caroadaha	ot provide	a much accurate an	alveie boss	uso it takas	many other	financial fa	store into a	occount Co		
98	This Sir i spreadshe	eet provides	s a much accurate ar	iaiysis becat	use it takės	many otner	ilnanciai fa	actors into a	iccount. 50	'	



	А	В	С	D	Е	F	G	Н	I	J	K
131	left over each year	in the cash	account are saved ba	ack into the	investmen	t taxable sa	vings accou	nt for the n	ext year.		,
132	Similarly, in years w	ith a yearly	cash shortfalls are t	aken from t	the savings	account the	next year.	The spread:	sheet		
133	is an Excel workboo	k consistin	g of a number of wor	rksheets co	ntaining you	ur personal	data that y	ou enter. In	Excel, the		·
134	spreadsheet as a w	hole is calle	d a workbook which	in turn is a	collection o	of workshee	ts. Clicking	on one of tl	ne tabs at th	ne	
135	bottom of the wind	low will bri	ng up that particular	worksheet							
136											
137	Setting up the spi	readsheet									
138	Use the S. Setup wo	orksheet to	specify which works	heets you r	need to fill o	ut. It works	with one p	erson S1 or	two people	we call	
139	S1 and S2. S1 and S	S2 can be m	arried or unmarried,	, however t	he latter sh	ould only us	se the tax fi	ling status S	eparate Fili	ng.	
140	In Excel, you switch	between v	vorksheets by clickin	g on the wo	orksheet tak	at the bott	om of the E	xcel windo	w or by		
141	clicking on workshe	et hyperlin	ks (blue font with an	underline)	available th	roughout tl	he spreadsl	neet. The R.	Results wo	rksheet	
142	summarizes data co	omputed or	the other data work	ksheets bot	h as tables	and then gra	aphs of the	data in the	tables.		
143	The results are upd	ated when	you change any of th	ne data in th	ne other dat	ta entry wor	rksheets.				
144											i .
145	Depending on your	level of exp	pertise and familiarit	y with finar	ncial terms,	you may wa	ant to read	Appendix C	(glossary of	f	i
146	financial terms) bef	ore enterin	g your data. In addit	ion, this spr	readsheet r	equires you	to switch b	etween diff	erent work	sheets	
147	that focus on partic	cular types	of data (e.g., work in	ncome, Soci	al Security b	penefits, IRA	As, expense	s, etc.).			i e
148											
149	Types of persona	l data requ	ıired 💮 💮								i
150	One or more incom	ie sources c	an be defined and in	ıclude: worl	k income, <i>p</i> o	ensions, Soc	ial Security,	, and <i>annui</i>	ty payouts .	There	
151	are three types of i	nvestment	accounts including:	tax-deferre	d deductabl	e IRA, Roth	IRA and Sa	vings (taxab	ole investme	ents), bank	
152	bank accounts, and	CDs). For p	ourposes of the sprea	adsheet, 40	1(k), 403(b)	, 457(b), Tra	aditional-IR	۹, Rollover ۱	RAs are cor	sidered to	·
153	contributions and b	e tax-defer	red IRAs. Similarly a	Roth-401(k) is conside	red a Roth II	RA. This is	because wh	nen you reti	re,	1
154	retirement account	s can be ro	lled over to "Rollove	er-IRA" and	Rollover-Ro	th" account	ts. You may	make both	scheduled a	and	i
155	irregular contributi	ons/withdra	awals to each of the	spreadshee	et investmer	nt accounts.	An irregula	ar event is a	one-time e	vent	i
156	occurring on a part	icular year.	You may specify exp	enses as bo	oth schedule	ed and irreg	ular events	. You might	think abou	t your list o	f
157	future irregular exp	enses as a	planning tool for you	ur future ex	penses in y	our "Bucket	-List" - suc	h as college	expenses, i	retirement,	1
158	trips, gifts, etc. (See	the discus	sion of the 2007 com	nedy film <u>Th</u>	<u>ne Bucket Li</u>	<u>st</u>	http://en.v	vikipedia.or	g/wiki/Buck	<u>cet_list</u>	for a nice
	definition.) The spr	eadsheet ca	alculates your remair	ning assets	yearly so yo	u can used	this for plar	ning future	expenses.		
160											
			e for a particular yea								
	•		possibly increase son				-				
163	lower expenses to i	make the ca	ash-flow positive if it	was down	a lot. The sp	readsheet v	will warn yo	ou if this hap	pens in R.F	Results	

	А	В	С	D	E	F	G	Н	I	J	K
164	section R.8 .										
165											
166	1.1 Some exam	ples of c	uestions that c	an be inv	estigated	l using th	is spread	Isheet			
167	Q.1 Will I run out o	of money du	uring retirement?								
168	Given expected inc	ome source	es and expected expe	enses in reti	rement, wil	l I run out c	of money. If	I save more	or spend le	ess,	
169	work shorter or lon	ger - how	will that affect my ca	sh flows? H	ow much d	o I need to	save? Rem	ember that	this is a stat	tic model	
170	and will only be a c	rude appro	ximation. There are	many other	more sophi	isticated mo	odels using	monte-carlo	and rando	m	
171	sequence of return	s that can g	ive more accurate e	stimates. Ho	owever, the	y all require	e you to hav	e a good ha	andle on you	ur futur	
172	spending. The latte	er is where	the SIPT may be use	ful.							
173											
174	Q.1.1 Will the mon	ey being sa	ved for college expe	enses (or a i	new home o	or cars, etc.) be adequa	ate?			
175	This is similar to qu	estion Q.1	but the future dates	for the star	ts of the exp	penses may	be nearer o	or further o	ut and the e	expenses	
176	may track different	ly from the	consumer price inde	ex.							
177											
178	Q.2 When should I	do withdra	wals on my tax-defe	erred IRAs?							
179	Using the spreadsh	eet one cou	uld also do experime	nts, for exa	mple to det	ermine whe	ether taking	some tax-d	leferred IRA	1	
180	early withdrawals (before 70 1	./2) might minimize į	going into a	much highe	er tax brack	et when on	e must start	t to take IRA	١	
181	Required Minimum	Distributio	n (RMD) without a p	enalty. If yo	ou take earl	y IRA withd	rawals once	you are ab	le to do it w	vithout	
182	the added tax pena	lty (after 59	9 1/2) and the mone	y if not nee	ded then it	could then	be reinveste	ed in tax-eff	icient		
183	investments in a ta	xable savinį	gs account using bro	ad-based lo	w-cost low-	turnover st	ock index a	nd possibly	muni bond		
184	index funds. This m	ight possib	ly lower your RMDs	and taxes la	ter on for th	nose who m	night be in a	much a hig	gher tax-bra	icket.	
185	Both tax-deferred I	RAs and Ro	th IRAs can be acces	sed at 59 1/	² without a	tax penalt	y. This sprea	dsheet doe	s not curre	ntly	
186	check to see if you	are doing o	r handle IRA withdra	wals before	e 59 1/2.						
187											
\vdash			m Social Security, an								
189	The spreadsheet m	ight also be	used for helping to	decide whe	n to claim S	ocial Secur	ity. Delayinខ្	g claiming S	ocial Securit	ty	
190	gives you a roughly	8% higher	benefit for each yea	r you delay	(and that do	oes not incl	ude the CPI	adjustment	: made each	ı year	
191	to Social Security).	The total in	ncome needed from	various inco	ome sources	and additi	onal withdr	awals durin	g the pre-cl	aiming	
			n experiments to try								
-			nses and taxes. You					ng Social Se	curity and i	nstead	
	taking money from	other acco	unts to used to prov	ide income	if needed b	efore claim	ing.				
195											
196	Q.4 How will irregu	ılar expens	es affect my future i	ncome stre	am throug	h retiremei	nt?				

	Α	В	С	D	Е	F	G	Н		J	K
197	You can experimen	t with seeir	ng how changing irre	egular expe	nses affects	your retire	ment incom	e. This can	be useful fo	r example	
198	to see how many tr	ips a year y	ou might take; how	a pricy a pr	ivate colleg	e or a less e	expensive p	ublic college	e fits into yo	our	
199	planning; how expe	ensive a hou	use you might buy; e	tc. All these	decisions v	vill affect ho	ow your reti	rement inco	ome stream	might	
200	behave.										
201											
202	Q.5 How much mo	re income o	could I earn long ter	m if I have a	a more aggr	essive stoc	k portfolio	(more stock	(s)?		
203	The stock/bond ass	et allocatio	n model used here is	s fairly elem	nentary usin	g fixed aver	rage long-te	rm returns	of stocks ar	nd bonds	
204	for the duration of	the period	used in the model. It	can be use	ful to get a	ball-park es	timate. Ho	wever, usin	g a more ag	gressive	
205	portfolio (more sto	cks, riskier	stocks, etc.) might g	ive you a hi	gher return	. In the long	g-run, for ex	ample, mor	e small-cap	stocks	
206	might earn a bit mo	ore return t	han large-capstocks,	etc. So you	can see the	e effect of tl	his over the	long term.	Note, that t	:his	
207	spreadsheet model	does not to	ake varying returns o	or sequence	of returns i	into accoun	t that can g	reatly affec	t the results	if	
208	withdrawals are tal	ken from th	at account over time	е.							
209											
210	Q.6 What is the eff	ect of diffe	rent levels of inflation	on on my sa	avings over	time?					
211	You can specify diff	erent expe	cted long term CPI (C	Consumer P	rice Index e	stimate of i	nflation) va	lues and sec	e how that a	affects	
212	your savings and ex	penses nee	eded during retireme	ent. Instead	of using the	e default CP	I you set, yo	ou can spec	fy different	CPIs in you	ır
213	income and expens	es in the di	fferent accounts tha	t may be m	ore or less t	han the def	fault CPI.				
214											
215	Q.7 What would th	e effect be	of adding annuities	during reti	rement? W	hat if I start	ted them at	different t	imes?		
216	You can experimen	t adding an	nuities for each spou	use, with an	nd without C	OLA adjust	ments, to se	ee the effec	ts on retirer	ment cash	
217	flow. Note that the	purchase c	osts of adding fixed-	annuities a	t different a	ges in the f	uture can b	e viewed as	irregular ex	cpenses.	
218											
219											
220	1.2 The types of	of data yo	ou will need to e	enter							
221	You must specify th	ne starting a	and ending ages for e	each income	e stream (w	ork, pension	n, Social Sec	curity, and/o	or annuities),	
222	and do this indeper	ndently for	each spouse S1 and	S2. You sho	uld specify t	the expecte	d average r	narket retui	ns for stock	and bonds	5
223	(fixed income) in yo	our investm	ent portfolio. Histori	ically, rough	nly 90% of y	our portfoli	o return is o	determined	by your ass	et	
224	allocation (in this c	ase the sto	ck:bond ratio). In ad	dition, you	can specify	(the same c	r different)	Cost Of Livi	ng Adjustm	ents	
225	or COLAs for each o	of these inco	ome streams that inc	crease the i	ncome and	expenses b	y that perce	ntage each	year. You n	nay also	
226	specify the expecte	d Consume	r Price Index (CPI) th	nat can used	d as a defaul	lt for the va	rious COLAs	you need t	o enter.		
227											
228	Types of Savings										
229	Similarly, you must	specify the	age ranges for sche	duled inves	tment (IRA,	Roth, taxab	ole Savings)	contributio	ns and with	drawals	

	Α	В	С	D	E	F	G	Н	I	J	K
230	for S1 and S2. The I	RA and Rot	h accounts are optic	nal, but the	Savings acc	count is req	uired since	it is used to	reconcile th	ne cash-	
231	flow and where ins	urance (if a	ny) payouts are dep	osited. You	can specify	both sched	uled contrib	utions as a	fixed amou	nts and	
232	withdrawals as a pe	ercentage e	ach year that increa	se by a COL	A if desired.	You can als	so specify ir	regular con	tributions a	nd	
233	withdrawal events	that can oc	cur at any age or hav	ve several e	vents the sa	me year inc	dependently	for both S	1 and S2. Fo	r	
234	example, one could	d withdraw	money to buy a new	car, pay fo	r kids colleg	e, take a bi	g trip and b	uy a new h	ouse at the	same	
235	year. You specify th	ne age (e.g.	59) rather than the	year (e.g. 20)19) for the	events. It c	omputes th	e sum of tl	he schedule	d	
236	and irregular contri	butions and	d withdrawals respe	ctively each	year. These	e are tracke	d separately	for S1 and	S2.		
237											
238	Types of Expense	S									
239	Expenses are specif	fied similar	to contributions and	d withdrawa	Is for invest	ment accou	ints, but as	scheduled a	and irregula	r	
240	expense events. W	hereas year	ly investment accou	ınt withdrav	vals are add	led to the ca	ash-flow, ex	penses are	subtracted		
241	from the cash-flow.	. You can al	so specify scheduled	d and irregul	lar deductio	ns that are	used for pa	rt of the tax	calculation	ıs.	
242	Otherwise, options	are similar	such as starting and	stopping ag	ges with an	expense CO	LA are spe	cified. Α roι	ugh estimate	e of	
243	Federal and State to	axes that ar	e computed are sub	tracted fror	n the cash a	account. No	te that State	e taxes are	estimated		
244	by a fixed percenta	ge not as a	AGI-dependent mar	ginal tax rat	e. Different	states may	also have v	arious dedi	uction levels	5	
245	associated with diff	ferent types	of pensions, etc. w	hich are not	taken into	account.					
246											
247	It can be used by	a single pe	erson (S1) or a cou	iple (S1 and	d S2)						
248	If there is no individ	dual S2, the	n just <u>enter zeros</u> fo	r all income	, contributi	ons, withdra	awals, and e	expenses fo	r S2 entries.		
249	You can enter the s	ame age ra	nge as for S1 to simp	plify data en	itry. S1 and	S2 can be m	narried or u	nmarried. N	∕larried S1 a	nd S2	
250	can use tax filing st	atus of Mar	ried Filing Jointly (M	1FJ) or Marri	ied Filing Se	parately (M	FS), or Hea	d of Housel	nold (HH).		
251	However the unma	rried S1 and	d S2 should only use	the Tax fili	ng status Si	ngle Filing (SF).				
252											
253	Limitations on the	e types of	calculations done	in the spre	eadsheet						
254	The computations (use fixed es	timates you specify	for various _I	parameters	including a	fixed CPI, fi	xed COLAs,	fixed stock	and	
255	fixed income return	ns whereas	in reality these all ch	nange year t	o year intro	ducing maj	or changes	ine the actu	ual results. I	t does	
256	not address the pro	blem of sec	quence of returns ar	nd sequence	of withdra	wals that ca	n radically	affect long	term return	s. The	
257	reality is that all future rates of returns, CPIs, COLAs, tax rates, tax rules and schedules, deduction schedules, etc. are unknown.										
258	However, we know they will vary and both of these factors can greatly affect future results. Better methods such as monte-carlo										
259	or randomized sequ	uences of a	ctual past returns ca	ın improve t	he model, k	out still can	not guarant	ee returns.	Such advan	ced	
260	methods are beyon	nd the scope	e of this spreadsheet	t. Black Swa	n events do	happen - th	nink 9/11 ar	nd the 2007	-Great Rece	ssion.	
261	So these results are	really ball-	park estimates, but	that still ma	ay be usefu	l for plannin	g.				
262											

	Α	В	С	D	E	F	G	Н	ı	l j	К
263				_					-		
264	1.3 How the sp	readshe	et works								
-	Each worksheet ha			nh in the heg	l inning tha	ıt explains wh	lat vou nee	ed to fill out	in that wor	ksheet	
	A few figures illust							Figures	1	t. Some of th	1
	figures are for an o		•	•			the works				
268			о эр. эшиэлэ		Berreran				-		
	Personal configu	ration of th	ne spreadsheet u	ising the "S.	Setup: v	vorksheet					
-	You must first spec						rksheet to	specify the	types of acc	counts	
	that apply to your		•						• •		
	worksheet options									ment	
	and expense accou										
274	and withdrawals fo	or the invest	ment accounts in	table S.3 (see	Figure 3)	. Figures 4 an	d 5 show e	xamples of	account wo	rksheets	
275	that MUST be edite	ed and those	NO NEED TO EDI	T based on th	e parame	ters you set i	n section S	.1 . Figure 6	shows how	irregular	
276	expenses are enter	red into the	10. ExpensesData	worksheet. F	igure 7 sh	nows how irre	gular cont	ributions ar	nd withdraw	als are	
277	entered into the in	vestment ac	counts worksheet	s. The follow	ing is a su	mmary list of	the other	worksheets	. You can cli	ck on	
278	the hypertext to go	to that wo	rksheet or click on	the workshe	et name t	ab at the bot	tom of this	window. F	igure 8. shov	ws an	
279	example of the R. I	Results sum	mary table R.1 . Th	e other work	sheets are	discussed in	more deta	il below.			
280											
281	Then enter your	Age and Ta	x data								
282	After editing the S.	Setup work	sheet, you should	then edit the	1. AgeDa	ata workshee	t, and then	enter basic	tax filing da	ata in the	
	2. TaxData worksh	eet. Then yo	ou should visit eac	h of the othe	r data-ent	ry worksheet	s and ente	r your perso	onal data.		
284											
-	Remember to save										
	data will not be say			natever sprea	dsheet pr	ogram you a	re using) to	save it. As	you make c	nanges,	
	saving the spreads	heet often is	s a good idea.								
288											
	Some worksheets		•							_	
	You enter data onl	-									
	and 8. Roth data h	ave table-Gl	JI data entry. The	following is a	n example	e of a Table-G	UI for the	3. WorkDat	a workshee	t. 	
292		rt S1 end jok				start job S2 er	dol doi b		icome S1 wo		
293	Job Nbr job ag		Income COLA	adjustr	SUDMICTION OF THE PARTY OF THE		Inco	1000			
294		25 6:		2.00%	\$0	25	35 \$2		2.20%	\$0	
295	2	63 69	9 \$40,000	0.50%	\$0	35	57 \$4	0,000	1.50%	\$0	

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296	3 0)	0 \$0	0.00%	\$0	58	66 \$15	,000 1	.50%	\$0	
297										-	
298	View the final resu	ılts in the	"R. Results" wo	rksheet afte	er you have	entered a	II your dat	ta.			
299	After you have enter	ed all of y	our data, you can v	view your res	ults summa	rized in the	R. Results \	worksheet.	This takes		
	intermediate results	computed	d in the rest of the	worksheets a	and gives yo	u a global p	icture of yo	ur situatio	n year by yea	ar.	
301											
302	The worksheets ar										
303	Introduction and F			hite.	is addition	al document	ation				
304	SimpleCalc works	heet:	<u>SimpleCalc</u>		is the elem	entary glide	-path calcu	lator			
305											
306	Figures and Apper	ndices wor	rksheets are		is addition	al document	ation				
307											
	You can view a sumn		1	our settings i							
309	Assumptions wor		<u>Assumptions</u>					r in the oth	er workshee	ets	
_	You don't edit the As	ssumption	s worksheet since	it summarize	es the other	data worksh	neets.				
311											
312	Results workshee		R. Results			•		th results a	fter enterin	g your data	
	You don't edit the R.	Results w	orksheet since it s	ummarizes th	ne other dat	a workshee	ts.				
314											
315	Configuration wor	rksheets:	S. Setup	_	•		•		e which shee		
316			1. AgeData						ed througho	ut spreadsh	eet
317			2. TaxData		enter Fede	ral tax data	and filing s	tatus			
318											
	The income workshe	•	•	rces of yearly				,			
320	Income workshee	ets:	3. WorkData	_	<u> </u>	work incom		•			
321			4. Pension Data	_	<u> </u>				nt or future,		
322			5. SocSecData		<u> </u>				(current or	future)	
323			6. AnnuityData		enter your	annuity inco	ome data, if	any (curre	nt or future)		
324	-						., .,		1 ,		
_	The investment acco			ney through							
326	Investment works	sneets:	7. IRAdata						any (curren		
327			8. RothData		<u> </u>				rrent or futu	-	
328			9. SavingsData		enter your	taxable savi	ngs accoun	ts data, if a	any (current	or future)	

	Α	В	С	D	Е	F	G	Н	I	J	K
329											
330	This is the workshe	et where yo	ou enter your yearly	expenses							
331	Expense worksh	eet:	10. ExpensesData		enter your	expenses da	rta (current	or future)			
332											
			low is computed fro	m (Income -	+ Withdraw	als - Expense	es - Taxes)				
	You don't edit the		1								
335	Cash-flow work	sheet:	11. CashData		summarize	s the cash fl	low from th	e other wor	ksheets		
336											
			withdrawals is in the								
			vorksheet unless the	IRS update							
339	RMD table work	sheet:	12. RMDtable		contains th	e IRS Requir	red Minimu	m Distributi	on data		
340											
		each of the applicable data worksheets accounts, enter income, contributions and/or withdrawals or expense									
		ounts, rates of return (ROR), COLAs, etc.). There is a detailed list of all these worksheets tables and s								ns	
	in Appendix A .										
344											
			me, pensions, Social	•	•						
			vestment accounts.							ounts.	
347	Expenses and dedu	ctions are e	entered in the 10. Ex	pensesData	worksheet	. Taxes are t	then estima	ated on the	total		
			sheets let you specify							ses	
			. Investment contrib								
			early events and by i	rregular eve	ents. Irregul	ar events ar	e specified	at particula	r ages		
	rather than on a ye	early schedu	ule.								
352											
			cash is handled at								
354	Each year, all incon	ne and inve	stment withdrawals	are "deposi	ited" or add	ed into the	cash-flow t	able in 11. (CashData		
355	worksheet. Expenses and taxes are "removed" or subtracted from the 11. CashData worksheet. The resulting exc								g excess (o	r	
356	shortfall) is calculated and added or (removed) from the taxable savings in 9. SavingsData . Here is an example to									larify	
357	the difference betw	veen sched	uled and unschedule	ed events. Fo	or example,	you might s	schedule ye	arly withdra	awals from	the	
358	Savings account on	either a sp	ecific schedule (e.g.,	1%/year) o	r on an irre	gular basis s	uch as a pa	rticular with	ndrawal for	a new car a	
359	(e.g., \$22,000). This	s is describe	ed in more detail in s	ection 1.4 b	elow.						
360											
361	How life insurance	e payouts	are handled								

	Α	В	С	D	Е	F	G	Н	I	J	K	
362	If there is ever a life	e insurance	payout for S1 and/o	r S2 for pol	icies describ	ed in 1. Age	Data section	on 1.4 , the p	ayout			
363	is computed for 9. 9	SavingsData	a table 9.4.2.1 and a	dded tax-fr	ee to the sa	vings accord	ding to the	payee.				
364												
365	Demonstration D	ata that yo	ou must override t	o enter yo	ur data							
366	The spreadsheet co	mes with d	emonstration (demo	o) data alrea	ady set up fo	or demonsti	ration purp	oses and to	gives exam	ples		
			ne data-entry works					•				
$\overline{}$	•		use any particular da					-				
			e data worksheets th							1		
		•	ng the income, contr									
-			ent returns for the ir									
			current year for ea		-				`-).			
	·	•	nable/disable the us									
$\overline{}$	•		eet S.3 lets you ena	ble/disable	the use of s	scheduled c	ontribution	is and withd	lrawals by			
	selecting "yes" or "	no".										
376												
-			stributed with the									
-	•		ed in two different			on how mu	uch demor	stration da	ata are to k	pe		
	<u> </u>		e file names as we									
380	The file names all	versions o	f the " <u>Simplified-I</u>	ncome-Plai	nning-Tool	" are prefix	ed with "S	SIPT-".				
381	For example, the	version nu	mber is indicated a	as:	V.0.19.2							
382	This is followed by	y the relea	se date is indicate	d by:	11-8-2015a	9						
383												
384		a) full de	mo data	SIPT-Demo-	V.0.19.2-11-	8-2015a.xlsx						
385		b) no dei	no data	SIPT-noDem	no-V.0.19.2-1	L1-8-2015a.x	lsx					
386												
387	a) is the spreadshed	et with full	demonstration data	. It is useful	for viewing	the full den	nonstration	examples i	n all data er	ntry		
388	worksheets. It inc	ludes exam	ples for the data en	try workshe	ets. In most	t people's si	tuations, yo	ou might on	ly use a few	of		
389	these types of inc	ome source	es for your data.									
390	b) The no demo ver	rsion of the	spreadsheet has no	demonstrat	ion data an	d is ready fo	or entering	your own da	ata.			
391	All data entries a	re set to eit	her \$0 or 0.0% in all	data-entry	worksheets	s. All worksh	ieets are un	selected in	worksheet			
392	S. Setup. It is use	ful for ente	ring your data from	scratch with	nout having	to overwrit	e any dem	onstration o	lata answer	·s.		
393												
394	You can enter your	own data ii	n any of the two ver	sions overw	riting demo	data as rec	ηuired.					

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395						•			<u>'</u>	,			
	All worksheets are	protected	except for the red c	ells where v	ou are to e	nter vour d	ata						
-			red cells might corru					except red	cells where	2			
			inprotect any works			•		•					
			more details on prot			_				rces.			
400													
401													
402	1.4 How Contri	ibutions,	Withdrawals a	nd Expen	ses are h	andled							
			withdrawals taken	•			A, and Savin	gs accounts	are added	to			
		the cash-flow in the 11. CashData worksheet. Both scheduled and irregular Expenses (10. ExpensesData worksheet)											
405	and Federal and State taxes (2. TaxData worksheet) are taken from the cash account. Roughly, for each year y,												
406													
407	Cash(y) = Inco	ome(y) + W	ithdrawals(y) - Cont	ributions(y) - Expenses	s(y) - Taxes(y) + Insurar	nce Payout(y)				
408													
409	Then, the cash bala	ince is adde	d (subtracted if nega	ative) to the	savings acc	count for th	e next year,	•					
410													
411	Savings(y+1)	= Savings(y) + Cash(y)										
412													
	•		ıture expenses planı			· · · · · · · · · · · · · · · · · · ·							
			x-deferred IRA, or ta										
			the expense may p										
			I to the Cash-flow, th						<u>~</u>				
		•	n the 11. CashData v			•							
-			of them has a negative										
			r S2 is negative, it th			ve amount i	from the po	sitive one s	o the one	with			
	extra cash helps ou	t the spous	se S1 or S2 who has	a negative b	palance.								
421													
422				_									
			ning out of mo		<u> </u>								
			ouilt into the spreads										
-			our current age it wi							:he			
			a worksheet. Also, v						ises, you				
427	must specify both a	a starting ag	ge and ending age. (To schedule	yearly eve	nts for your	lifetime, en	iter a large					

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428	value such as 100 c	or 110 for th	he ending age). The	spreadshee	et checks to	make sure	your startin	g age is less	than		
429	your ending age, ar	nd will warn	is you if it is not. If yo	our withdra	wals from a	n investme	nt account a	are too high	١,		
430	the account will rui	n out of mo	ney and will show a	negative ba	lance. This	last error ch	necking will	warn you ir	case		
431	that happens so yo	u can withd	Iraw less to avoid thi	s situation.	These ched	cks are sum	marized in s	sections R.8	.1 and		
432	R.8.2 in the R. Resu	ılts workshe	eet. If there is no err	or, then a b	lue dot will	appear. Otl	herwise you	ı will see an	error		
433	message describing	g the situati	on and directing you	to the app	ropriate wo	rksheet to d	correct it.				
434	In summary:										
435											
436	(a) Validity checks a	are made fo	or IRA, Roth, Savings	and Cash-fl	ow account	s to test if a	ny of them	run out of r	noney. This		
437	is indicated with	n a PROBLEI	M warning on the R.	Results wo	rksheet R.8	3.2 . The erro	or will rema	in until you	correct it.		
438											
439	(b) Validity checks	are made in	the data worksheet	s comparin	g the age er	ntries with t	hose of the	1. AgeData	worksheet		
440	If the ages enter	ed are inco	nsistent, it will show	an ERROR	xxx messag	e until you f	fix it. For en	tries that ar	re not		
441	being used (sinc	e you set th	e amounts in questi	on to \$0), y	ou must set	your starti	ng age in th	e other			
442	worksheets to a	t least the c	urrent age in the 1. A	AgeData wo	orksheet. Th	is is summ	arized for a	ll workshee	ts in		
443	R. Results section	n R.8.1 .									
444											
445											
446	2. Disclaimer										
447	This software atter	mpts to mo	<mark>del an income strea</mark>	m from sev	eral differe	nt income s	ources, inv	estment wi	thdrawals,		
448	expenses, taxes an	d cash-flow	<mark>/s over time. No cla</mark>	im is made	to the accu	racy, suitab	oility, and co	orrectness o	of the		
449	algorithms. Also, n	ote that the	e further out one go	es over tim	e, the less a	accurate an	y estimates	will be. Sir	ce the		
450	software uses stati	ic models a	nd static rates of ret	urn, CPI, et	c. that you	enter, it wi	II not track	actual marl	ket values		
451	over time. The soft	tware uses	only Excel formulas	and <i>doe</i>	s not use V	isual Basic ((VBA), s	o one can e	easily reviev	N	
452	all computations as desired. Because it uses generic spreadsheet coding (with no VBA), it will run in a variety of										
453	spreadsheet programs such as Windows Excel, free OpenOffice or LibreOffice "calc", free Google"sheet", etc Use this										
454	software at your o	wn discreti	on and risk as an ini	tial way to	think about	personal fi	nance prob	lems. This i	s education	nal	
455	software. Absolute	ely no warra	antee is offered for t	this softwar	re and no re	esponsibility	y is taken fo	or any error	s in. or use	of	
456	the software.										
457											
458											
459	3. Directions fo	or using t	he spreadsheet								
 455 software. Absolutely no warrantee is offered for this software and no responsibility is taken for any errors in. or use of the software. 457											

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461	by overwriting the	demonstrat	ion data. You might	want to sav	e your spre	adsheet wit	h a new file	name as y	ou make ch	anges.	
462	The demonstration	data provid	des examples of ans	wers to give	you an idea	a of typical v	values. Note	e that negat	ive number	s are	
463	shown as red (\$1,2	34) rather t	han -\$1,234, and sh	ould not be	edited.						
464											
465	The first workshe	ets you sh	ould use to enter	your data							
466	You must first configure the spreadsheet to your personal situation. This is done in the S. Setup worksheet sections S.1 to S.3 .										
467	By not using that worksheet specified in S. Setup section S.1, it will also ignore that data. Then enter your data in the										
468	1. AgeData and 2. TaxData worksheets since these are used by the other data worksheets. In table S. Setup S.1 you declare the										
469	set of data worksh	eets that ar	e applicable to you	(see Figure	1), where y	ou select " <mark>u</mark>	se" or "igno	ore". In S. S	etup sectio	n S.2	
	, ,	•	heet to use irregular								
			s worksheet In S.3 y								
			t accounts (see Figu		of the S.2 a	nd in S.3 re	equire a " <mark>ye</mark>	es" or "no" a	nswer with	one	
		ing a " <mark>keep</mark> '	or "remove" quest	ion.							
474											
_	Then, entering da										
			ration in the S. Setu	· · · · · · · · · · · · · · · · · · ·							
			WorkData through								
	·		enter data in the re						•		
			nis Excel window or								
480	table at the end of	each works	heet (see an examp	le at the bot	tom of this	worksheet)	. Some wor	ksheets (lik	e this one) v	will	
481	also have hyperlink	s to other v	vorksheets.								
482											
483	3. WorkData,	4. Pension	Data, 5. SocSecData	, 6. Annuity	Data, 7. IR	Adata, 8. Ro	thData, 9.	SavingsData	a, 10. Exper	sesData	
484											
485	If a particular data	worksheet	does not apply to on	ne of the spo	ouses S1 or	S2, or there	is no spous	e S2, then j	ust enter \$0	for any	
486	income, contributio	on, withdra	wal, etc. amounts fo	r that works	sheet. That	lets the data	a be ignore	d in comput	ing the resu	ılts from	
487	the various data so	urces. Altho	ough by not using th	at workshee	et specified	in S. Setup s	section S.1 ,	it will also i	gnore that	data.	
488											
489	Viewing your resi	ults in the	"R. Results" work	sheet							
490	As you enter the da	ata into the	various worksheets,	, the spread	sheet will a	utomatically	/ recomput	e the other	worksheets	that use	
491	it to incorporate th	ose change	s. In particular, they	will be refle	ected in the	R. Results v	vorksheet.	You can see	how chang	es in any	
492	worksheet affects t	he results b	y going back and fo	rth betweer	n the R. Res	ults worksh	eet and the	data works	heet you ar	·e	
493	currently working o	n.									
494											

	A	В	С	D	Е	F	G	Н	I	J	K	
495	Experimenting wi	ith other c	onfigurations afte	r you have	entered y	our persor	nal data					
496	You can model the	income str	eam in various ways	using temp	orary chang	ges in the S.	Setup confi	guration yo	u might ma	ke. For		
	example you could leave out various income sources such as stopping work, adding an annuity, adding a Roth IRA, etc. You could											
-	also try using different years for claiming Social Security, working longer, taking withdrawals from the IRAs or savings at											
	different ages, or leave out or reduce certain expenses, etc											
500												
501		.	6 11 1 1		_							
	4. Discussion o	t the list	of all workshee	t tables i	n Append	A XID						
503						_				_		
			d list of all workshee									
			I data, those that you									
_			ed, and finally the R. ize yourself with the									
	or just view the diff		*	type or dat	a tilat will b	le lieeueu ai	iiu wiiat typ	es of result	s are preser	iteu -		
509	· •	CICIL WOIN	directs.									
-		enter v	our data <u>on</u>	lv in th	e Red (Cells in	the Da	ta Inpu	t Work	sheets.		
511			er or edit data in R		- 1100.							
512			cells are normally	_	ed unless t	he IRS cha	nges vario	us tax rate	s (do not e	edit).		
513		BLUE cells	s are major results	or interm	ediate resu	ults (do not	t edit).					
514		BLACK cel	lls are intermediat	e computa	tions (do i	not edit).						
515		GRAY are	as of the other wo	rksheets ir	ndicate wh	ere the an	alysis					
516		has not be	een implemented	yet and sh	ould be igi	nored.						
517												
518	Note: You don't h	ave to edi	t tables in any of th	ne other w	orksheets l	beyond the	following	warning m	nessage if i	t is present	:	
519												
520	> DO <u>NOT</u>	CHANGE	ANY VALUES in	the follo	wing tab	les in thi	s worksh	eet. <	-			
521												
522												
523	5. Notes on cur	rent ver	sion of the spre	adsheet								
			s not handle state ta		that would	depend on t	the specific	tax rules of	each state,	and		

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525	would need to take	tax-free m	uni-bond income int	o account.	However, in	the 2. Tax [Data worksh	neet it does	allow you t	0		
526	declare a state tax ¡	percentage	which will be added	l to your ma	arginal tax ra	ate and app	lied to the a	adjusted gro	ss income.			
527	It also allows you sp	pecify the ta	ax-free deduction as	a percenta	ge in 9. Sav i	i ngsData se	ction 9.2 so	that muni b	ond incom	e		
	could be approxima	ated.										
529												
	Note (2) The spreadsheet model uses average estimated values you specify for CPI, tax rates, withdrawal values (RMDs											
	are enforced), and rates of return that will obviously be a bit different in the future. But probably not too far off for rough											
	estimation purposes. You can use the CPI, set in 1. AgeData worksheet, as the default COLA for Soc Sec, Pension, IRA,											
	Roth and Savings withdrawals, work and annuity income, and Expenses. You can also override each of these COLAs on											
	the respective worksheets. If the COLA value you use on the data worksheets is -0 or 0%, then it uses the CPI value you set.											
535												
	· · · · · · · · · · · · · · · · · · ·		me from any of the s									
			tment accounts (IRA		ngs) are trea	ated as inco	me. None a	re required	except the	IRA		
	RMD withdrawals t	hat are don	e automatically at a	ge 70 1/2.								
539												
	· · ·		nefits tables are con	nputed for o	each spouse	for each ye	ear delayed	past age 62	(see works	heet		
	5. SocSecData secti	ion 5.1).										
542												
	Note (5) You can ta	ke schedule	ed and/or irregular y	early expen	ises from th	e 10. Expen	sesData wo	orksheet.				
544								_				
			ed (i.e., yearly) as w									
			ributions and withd									
		emporarily	disable irregular exp	penses to ge	et an idea of	the "stead	y-state" bel	navior of the	e income			
	stream flow.											
549					1.1 6 .			.1				
			not calculate additi									
			forces you to take th									
			rentiate with inherit									
			II" deductible IRA as									
		also there is	an RMD calculation	i associated	i with inheri	tea-Koths o	r 401(k)-Ro	tns currentl	y wnich hav	/e		
	a required RMDs.											
556			h	1. 1.1.1.		T. D.I		. 1: 42 51	1D 1-1- 'f			
		•	heet must have the		•							
558	the RMD values. Because it implements the Federal tax brackets, if the IRS changes the number of tax brackets, then the											

	А	В	С	D	E	F	G	Н	I	J	K		
559	spreadsheet needs	to have cha	inges made as well.										
560													
561	1 Appendix D lists the more information about the current status including a list of things TODO and the ongoing												
562	REVISION-LIST history.												
563													
564		Elementa	workshee	t (Assump	tions)								
565													
566	Worksheet Na	vigation.											
567	To go to a specifi	c workshee	t, click on one of t	he followir	ng:								
568		Introduction	<u>on</u>										
569		Assumptio	<u>ns</u>										
570													
571													
572		1. AgeData											
573		2. TaxData											
574		3. WorkDa											
575		4. PensionI											
576		5. SocSecD											
577		6. Annuityl	<u>Data</u>										
578		7. IRAdata											
579		8. RothDat											
580 581		9. Savings D											
582		11. CashDa									-		
583		12. RMDta											
584		RS. Resour		Articles lit	erature, we	h sites					+		
585		Figures	<u></u>		ts & descrip								
586		Appendix A	1		orksheets		ction						
587		Appendix E		Extra calcu							+		
588		Appendix 0		Glossary of	fterms								
589		Appendix D			tanding iss	ues and Re	vision list						
590		FAQ			Asked Que								