

22 Years of LiveCode and Counting...

The Coders' Swiss-Army-Knife

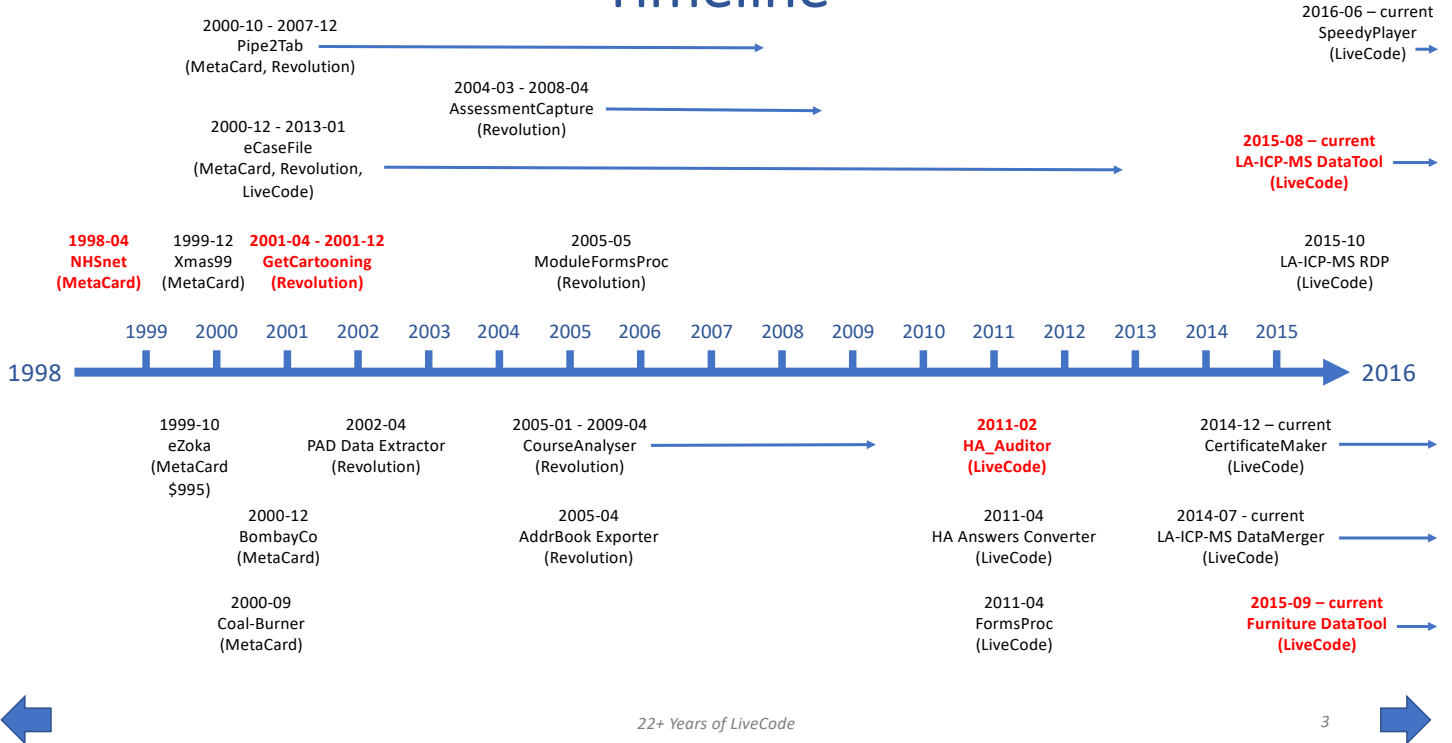
(it's got lots of widgets, cuts any project down to size and stays sharp for years!)

Peter Reid

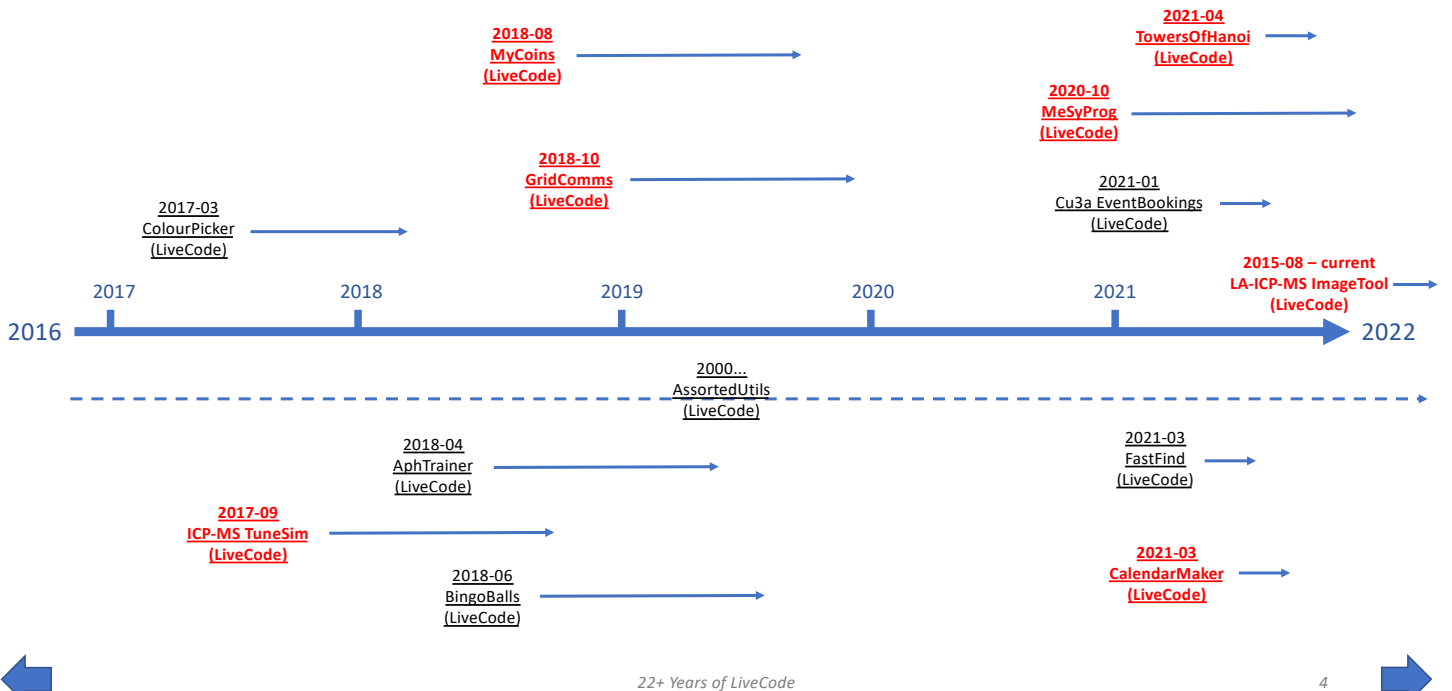
Types of Applications

- Demonstrators
- Simulations:
 - prototypes
 - interactive mock-ups
- Document generation
- Training Courses
- Games
- Ad hoc tools
- Data:
 - capture
 - conversion
 - analysis
 - manipulation
 - aggregation
 - display

Timeline



Timeline continued...



LiveCode Project Summaries



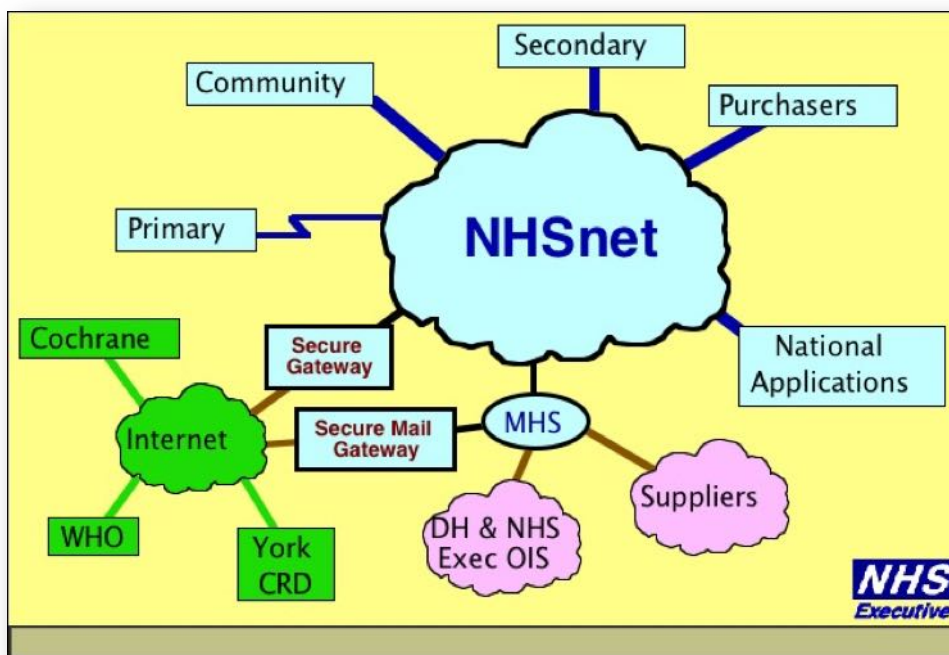
Timeline
1998 - 2016



Timeline
2017 - 2022



NHSnet (MetaCard, 1998)



- Toe in the water
- Coming from SuperCard
 - Mac-only
 - Uncertain future
- Partial build in MetaCard
 - incomplete but...
 - ...proof of concept
- Had to await Mac support
 - Mac support Oct 1998
- and the funds for a MetaCard licence
 - \$995 + \$300pa!



eZoka (MetaCard, 1999)

- 1st MetaCard licence
 - \$995, 27 Oct 1998
- Demo of B2B service
- Used to gain funding
- Demo still runs today!



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Xmas99 (MetaCard, 1999)



- Family eXmas Card
- Experiment with media



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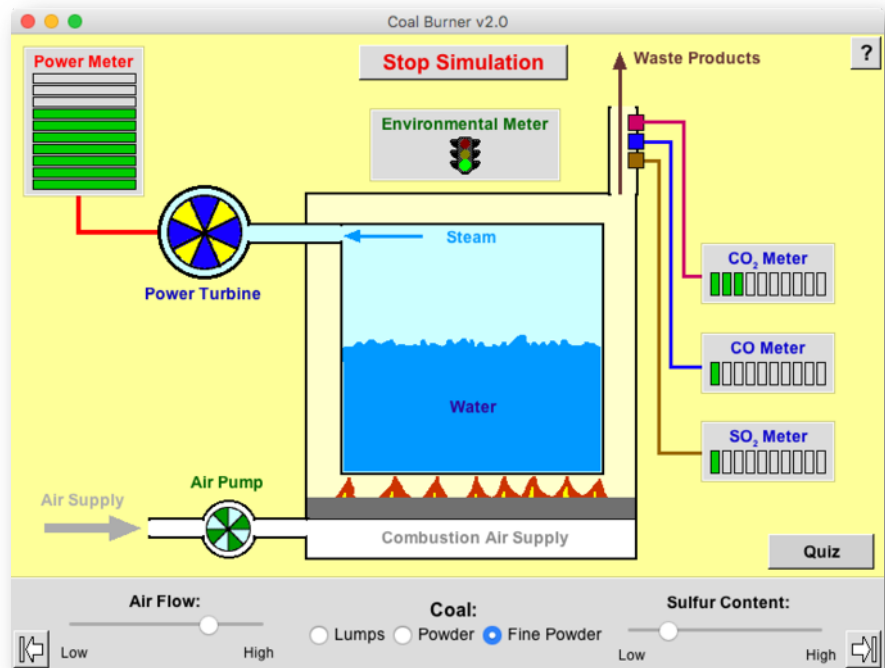
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Coal-Burner (MetaCard, 2000)

- Simulation of Coal Power Station
 - for son's school project
- Adjustable animation
- Quiz
- Parameter-driven

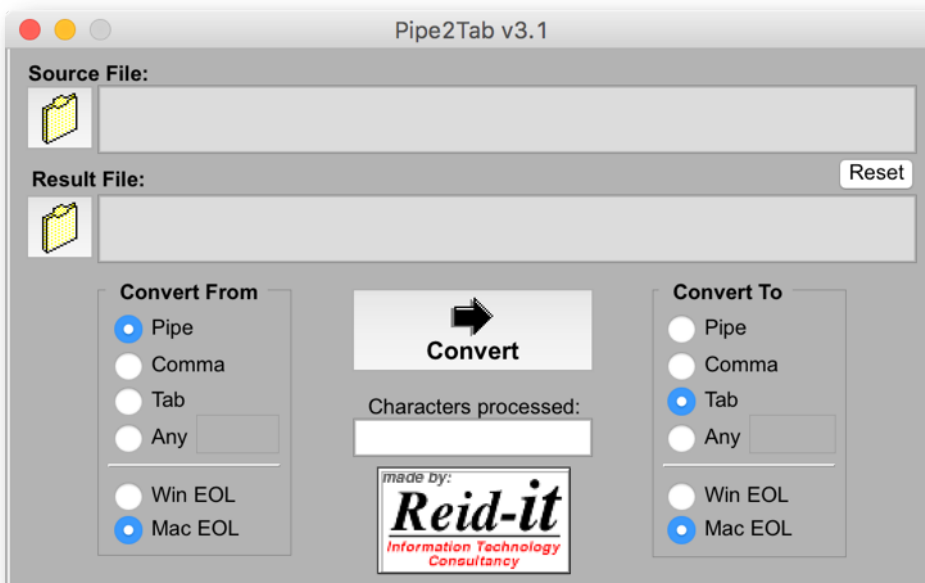


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Pipe2Tab (MetaCard, Revolution, 2000-2007)



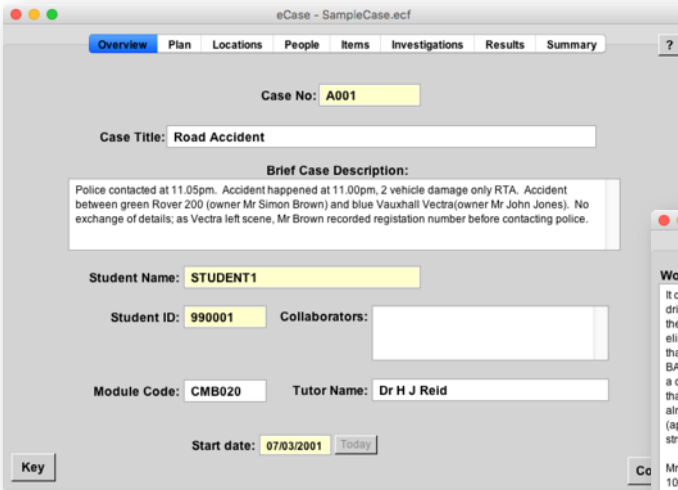
- Conversion of separators in exported text files
- Used to transfer data between different databases etc.

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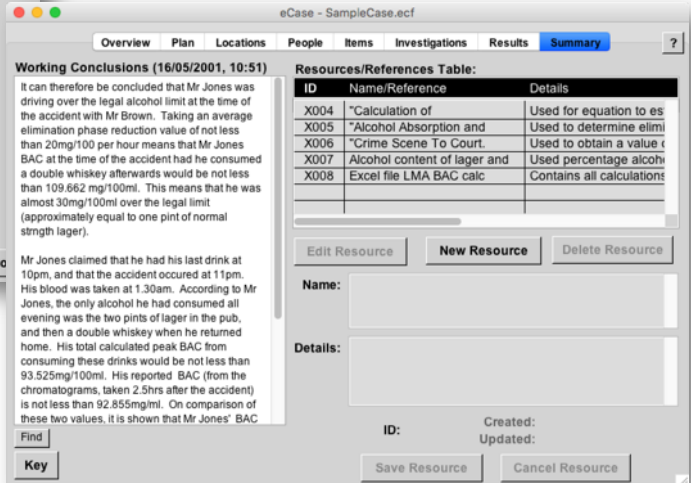
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eCaseFile (MetaCard, Revolution, LiveCode, 2000-2013)



- Electronic Case File for forensic examinations
- Student projects, in use until 2019
- Time/date stamped, students can't 'cheat'

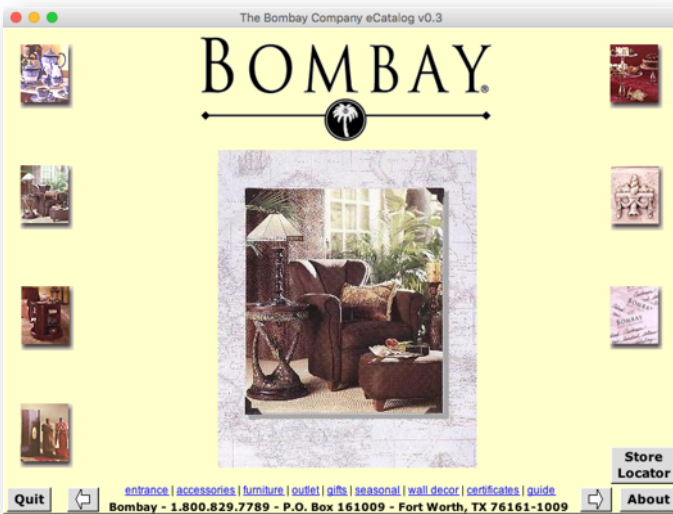


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BombayCo (MetaCard, 2000)



- Mock-up eCatalogue for distribution on CD
- External data-driven

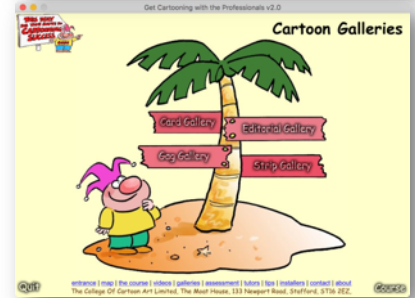
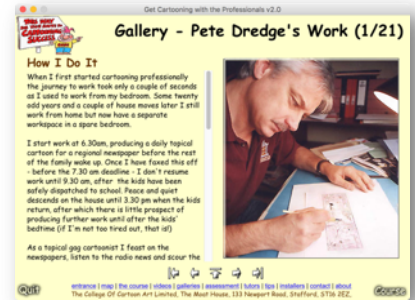


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GetCartooning (Revolution, 2001)



- CD training course from top UK professional cartoonists (based on successful correspondence course)



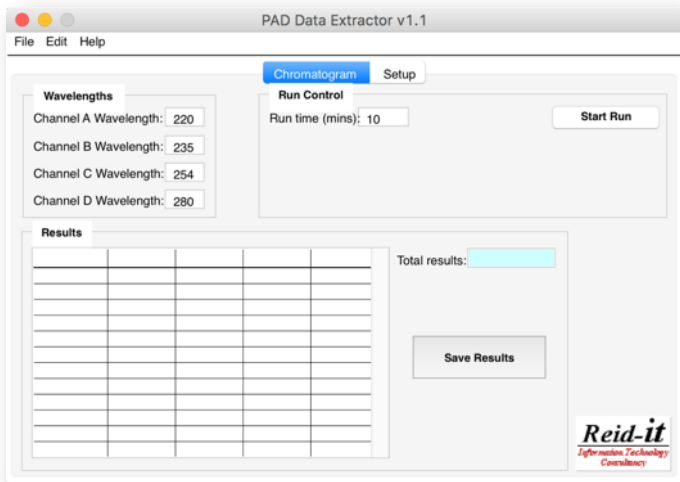
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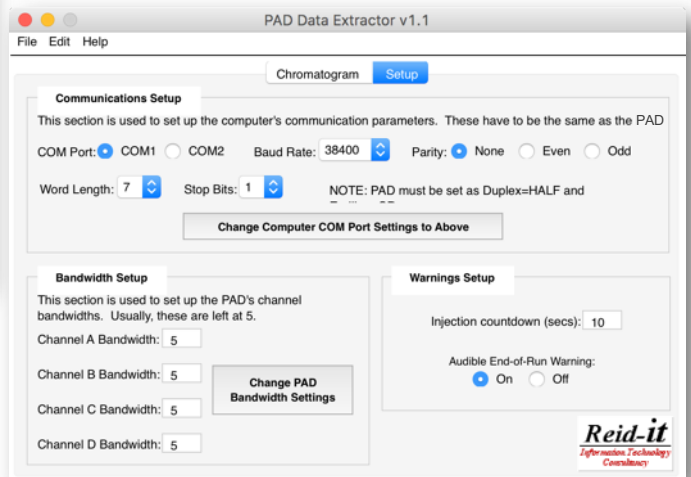
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PAD Data Extractor (Revolution, 2002)



- Data capture from chemical instrument
 - gift from industry, but no control software
- Export as Excel-compatible tab-delimited text



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Assessment Capture (Revolution, 2004-2008)

- Recording DSE Assessments
- Output PDF reports

The screenshot displays the 'DSE Assessment Capture 3.0.6' software interface. It includes a 'Basic Details' tab with fields for user information (Jean Fisher), location (4th Floor), and workstation (411). A 'Problems' window lists issues such as 'User has not recently received DSE and/or posture training' and 'User unaware of how and why to adjust chair'. A 'Display Screen Equipment Risk Assessment Record Preview' window shows a detailed report for user Amit Gautam, including job description, frequency of use, and a table of risk assessments.

Item	Problem	Risk	Action Required	Passed for action	Date resolved
DSE training	User has not received any DSE and/or posture training	3 3 9	Discuss safe DSE working with user (advise user to complete the DSE training package).	Risk Assessor	12/10/2005
Chair (general)	User unaware of how and why to adjust chair	3 3 9	Inform user how & why to adjust chair	Risk Assessor	12/10/2005
	Problem - users seat pan is too far back not enabling them to sit back into chair and utilise backrest	3 3 9	Action - advise user of how to adjust seat pan and of appropriate position	Risk Assessor	12/10/2005

Course Analyser (Revolution, 2005-2009)

- Many 100s courses to analyse per year:
 - required as part of ISO 9000
 - each course detailed in an Excel spreadsheet
- Groups of courses are analysed & summarised in Excel spreadsheets

The screenshot shows the 'Course Analyser v1.09' software interface. It features a note: 'NOTE: all summary file names MUST end in '.xls' or '.xlsx'. Also, there CANNOT be any extra '.xls' or '.xlsx' files in the folder. Folder and file names should be kept as short as possible.' Below the note is a prominent blue button labeled 'Process a Folder of Course Summaries'. Copyright information for Reid-IT Limited and Runtime Revolution Limited is also visible.

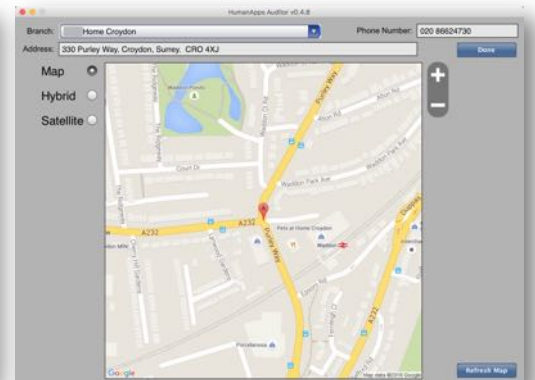
The screenshot displays an Excel spreadsheet titled 'COURSE-Analysis.tab'. The spreadsheet contains columns for Course Type, Client, Venue, Start Date, End Date, Certs Sent to Time In, % Passed, and various performance metrics. The data is summarized in an 'AVERAGES' row at the bottom.

Course Type	Client	Venue	Start Date	End Date	Certs Sent to Time In	% Passed	Ex Avg Exam %	Passed C/A	C/work %	% non-subst	Avg Course R	Avg Venue R	Avg Booking	Delegate Count
1-Day DSE RA	Guide Dogs	Hillfields, Reading	17-Apr-07	17-Apr-07	1-May-07	14					8.8	8.2	7.3	12
1-Day DSE RA	Guide Dogs	Leamington Spa	23-May-07	23-May-07	29-May-07	6			100		8.4	7.7	9	8
DSE Assessor Training	HM Courts Service	Romney Street, London	15-Mar-07	15-Mar-07	21-Mar-07	6					8	6.5	6.9	8
DSE Assessor Training	HM Courts Service	Romney Street, London	16-Mar-07	16-Mar-07	21-Mar-07	5					8.3	6.8	7.2	6
DSE Assessor Training	HM Courts Service	Lavender Hill	26-Mar-07	26-Mar-07	27-Mar-07	1					7.6	6.5	5	10
1-Day DSE RA	HM Courts Service	Birmingham	29-Mar-07	29-Mar-07	5-Apr-07	7					8.4	7.9	7	10
1-Day DSE RA	HM Courts Service	Birmingham	3-Apr-07	3-Apr-07	5-Apr-07	2					8.4	6.9	6.7	10
DSE Assessor Training	HM Courts Service	Taylor House, Islington	9-Mar-07	9-Mar-07	15-Mar-07	6					9	9.1	8.3	10
AVERAGES:						5.875					8.3625	7.45	7.175	9.25

HA Auditor (LiveCode, 2011)

- Capture on-site Health & Safety audits, ½ day each
 - developed for iPad 2 & later, internal use only
 - validated all inputs, checking for omissions
 - included look-up of location maps
- Enabled 3 years of audits, 350 audits per year
 - cost was a total of 15 days development effort!
- 2014: replaced by 3rd party commercial app with on-going support

Question	Answer	Comments
1. Was the Master File available to inspect?	Yes No N/A 1	
2. Was there evidence that the task listing had been localised?	Yes No N/A 1	
3. Was the Master File logical and presentable?	Yes No N/A 1	
4. Was there clear evidence of risk assessment review? Date of most recent review?	Yes No N/A 1	
5. Were satellite copies stamped with 'uncontrolled copy'? How many copies?	Yes No N/A 1	
6. Were satellite copies sufficiently up to date?	Yes No N/A 1	
7. Were any significant deviations from the central systems observed?	Yes No N/A 1	
8. Review 5 risk assessments for quality errors and localisation.	Yes No N/A 1	
9. Were the MH assessments reflected in the risk register or at least shown to figure in the work of the...	Yes No N/A 1	



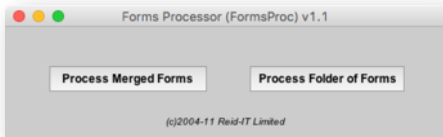
HA Answers Converter (LiveCode, 2011)

- Converts Health & Safety data from iPad app
- Outputs structured Word DOCX files
- Support app for HA_Auditor
- Used for 1,000+ audits over 3 years

	Yes, No or N/A	Comments
1. Did any main maintenance area appear adequately controlled? Access, guarding, housekeeping?	Yes	Maintenance q1
2. Had maintenance Partners received ACM awareness training within last 18 months?	Yes	Maintenance q2
3. Did maintenance Partners demonstrate knowledge of the Safety Code of Practice handbook?	No	Maintenance q3
4. Was there evidence that any docs and certs asked for could be obtained from the system?	NA	Maintenance q4
Fire		
	Yes, No or N/A	Comments
1. Was the fire risk assessment current?	Yes	Fire q1
2. Sample 5 extinguisher for condition and test date.	No	Fire q2
3. Were there any notable fire contraventions?	NA	Fire q3
4. Were selected Partners able to explain their understanding of fire fighting measures?	No	Fire q4
Notices and signage		
	Yes, No or N/A	Comments
1. Was the 2011/12 Safety Policy statement on display?	Yes	Signs q1
2. Did the duty manager display knowledge of the safety homepage?	No	Signs q2
3. Were there any homemade safety signs that needed replacing?	NA	Signs q3
Department specific issues		
	Yes, No or N/A	Comments
1. Were finger trap guards fitted to any doors from Nursery, Children's shoes and Toys? Not inc fire escapes, main dept doors into stairwells.	Yes	Departments q1
2. Were signs in place advising that lamps on Lighting may be hot - do not touch?	No	Departments q2
External Areas and vehicle movements		
	Yes, No or N/A	Comments
1. Did the WTS assessment appear to be 'in use' and current?	Yes	External q1
2. Are walkways clearly marked?	No	External q2
3. Is signage appropriate?	NA	External q3
4. Does there appear to be conflict between vehicles and pedestrians that could be better managed?	No	External q4

FormsProc (LiveCode, 2011)

- Process emails containing student module choices
- Validating student choices
- Summarising choices into Excel spreadsheet
- Based on ModuleFormsProc



```

From: nobody@lboro.ac.uk [mailto:nobody@lboro.ac.uk]
Sent: 31 March 2011 09:08
To: Lois Child
Subject: Masters Course Information Request

Name = Fred Bloggs
Email = fBloggs@noone
Organisation = Blogging Inc
Address 1 = Ready Road
Address 2 = Broughton
Address 3 = Nowhere
Postcode = BG22 N33
Country = UK
Option Choice = Analytical Chemistry and Environmental Science

From: nobody@lboro.ac.uk [mailto:nobody@lboro.ac.uk]
Sent: 31 March 2011 09:09
To: Lois Child
Subject: Masters Course Information Request

Name = Anne Jones
Email = a.jones@noone.org
Organisation = Aone Society
Address 1 = London Road
Address 2 = Leicester
Address 3 =
Postcode = LE13 3HQ
Country = UK
Option Choice = Analytical Chemistry
    
```

Thursday, July 21st, 2016

About Us
International Students
Studying with Us
Bursaries & Scholarships
Undergraduate Courses
Postgraduate Courses
Analytical + Pharmaceutical
Pharmaceutical + Medicinal
Analytical Chemistry
Analytical + Environmental
Environmental Studies
Postgraduate Research Programmes
Our Research
Business & Schools
People at the Department
Contact Us
Home

Postgraduate Courses

Welcome to Masters degrees – training for the future at Loughborough University

Please leave your details below and we will send course information to you. If you would prefer to contact us directly you may

Name*
E-mail*
Organisation
Address 1
Address 2
Address 3
Postcode
Country

*Required fields

I am interested in the following courses:

Pharmaceutical Science and Medicinal Chemistry
 Analytical and Pharmaceutical Science
 Analytical Chemistry
 Analytical Chemistry and Environmental Science

Privacy Statement:
Your information will only be used to send you course information and will not be shared with additional parties.

Please send me information

Reset



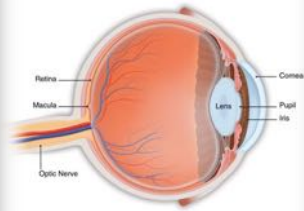
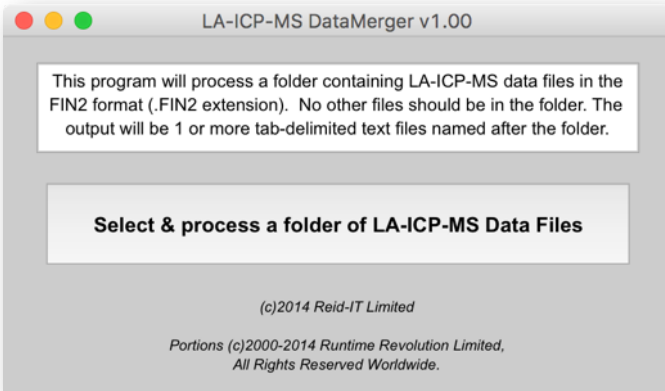
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LA-ICP-MS DataMerger (LiveCode, 2014-current)



	A	B	C	D	E	F
1	Finnigan MAT ELEMENT Raw Data					
2	control 5_3 slide2 red.FIN					
3						
4		28/5/2014	28/5/2014	28/5/2014	28/5/2014	
5		11:47:42	11:48:35	11:49:27	11:50:20	
6	Time	Cu63 (CPS)	Cu63 (CPS)	Cu63 (CPS)	Cu63 (CPS)	
7	0.047	6212	5605.799805	6232.5	5605.799805	
8	0.092	5302.700195	6262.5	6262.600098	5151.299805	
9	0.138	7474.700195	7929.5	6110.899902	9394.400391	
10	0.183	8434.700195	7171.799805	5151.5	7171.799805	
11	0.228	6111.200195	9757.5	6787.600098	6868.600098	
12	0.273	7878.899902	5303	5808	5151.100098	
13	0.319	5656.200195	5555.299805	4393.600098	6111	
14	0.364	6565.600098	7070.700195	5858.399902	6111	
15	0.409	5656.399902	5808.5	5555.299805	4848.399805	
16	0.454	5706.899902	6262.5	6565.700195	7373.799805	
17	0.499	5504.899902	5555.200195	5504.899902	5302.700195	
18	0.545	5909.5	6313	4545	4969.700195	
19	0.59	7020.200195	5807.799805	5302.700195	4191.600098	
20	0.635	5403.700195	6616.100098	6868.600098	5151.100098	
21	0.68	5757.399902	6211.899902	6111.100098	4999.799805	
22	0.726	7676.899902	5757.299805	5403.799805	5706.899902	
23	0.771	7171.799805	5656.399902	5706.899902	5201.700195	
24	0.816	6161.5	5050.299805	8131.600098	4393.700195	
25	0.861	6717.200195	5605.799805	5959.399902	5100.799805	
26	0.907	6363.399902	5201.700195	5504.799805	6262.399902	
27	0.952	6111	6666.600098	5504.700195	4898.799805	
28	0.997	7474.899902	5403.799805	5050.200195	6262.5	
29	1.042	5858.399902	5302.799805	7222.299805	5656.399805	
30	1.087	7575.899902	4999.899902	5201.600098	5408	
31	1.133	6414	5706.899902	5302.799805	7272.700195	
32	1.178	7272.700195	6666.5	4949.200195	4848.200195	
33	1.223	5202	6161.399902	6363.600098	5454.399902	
34	1.268	6818.299805	5201.799805	5504.799805	5985.799805	
35	1.314	6414.100098	5403.799805	6060.600098	5151.299805	
36	1.359	7171.899902	7778	4999.799805	5252.200195	
37	1.404	6616.200195	5454.399805	6919.100098	7373.700195	
38	1.449	6161.5	5555.399902	6818.100098	5707	
39	1.495	6666.700195	4848.200195	6565.600098	4696.600098	
40	1.54	6666.600098	5454.299805	4494.600098	5858.5	
41	1.585	6111	6767.5	5656.299805	5555.399902	
42	1.63	6515	5151.399902	7272.700195	4141.100098	
43	1.676	5100.700195	5504.899902	5100.799805	4898.799805	
44	1.721	7070.799805	6161.700195	5504.700195	6818.200195	
45	1.766	7222.200195	6616.100098	4545.299805	5555.299805	
46	1.811	6161.600098	6312.899902	6161.5	5252.399902	
47	1.856	6111.100098	5252.299805	5302.899902	4797.700195	
48	1.902	7171.600098	4393.600098	6060.5	4949.100098	
49	1.947	5909	6515	3939.100098	5403.899902	
50	1.992	6565.700195	5454.299805	5353.299805	4898.799805	
51	2.037	7070.700195	4646.200195	6565.399902	6110.899902	
52	2.083	6464.600098	6565.5	5201.600098	4040.100098	
53	2.128	7171.799805	4646.299805	4848.299805	7676.899902	
54	2.173	8636.700195	7576	5252.299805	5353.399902	



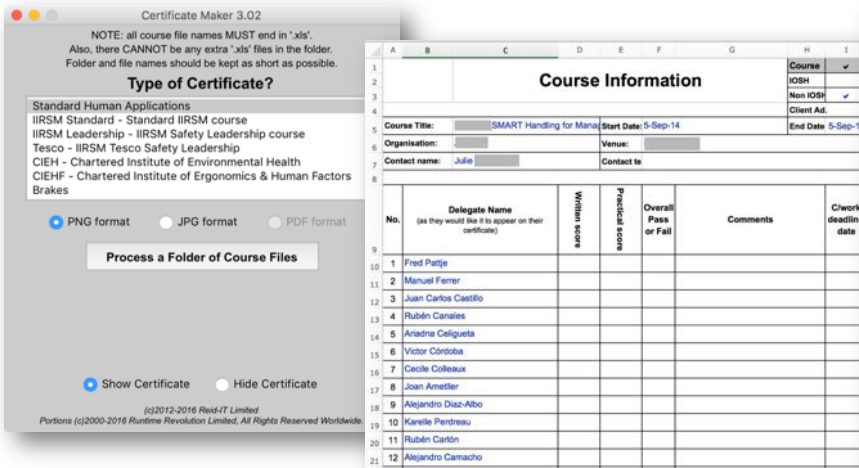
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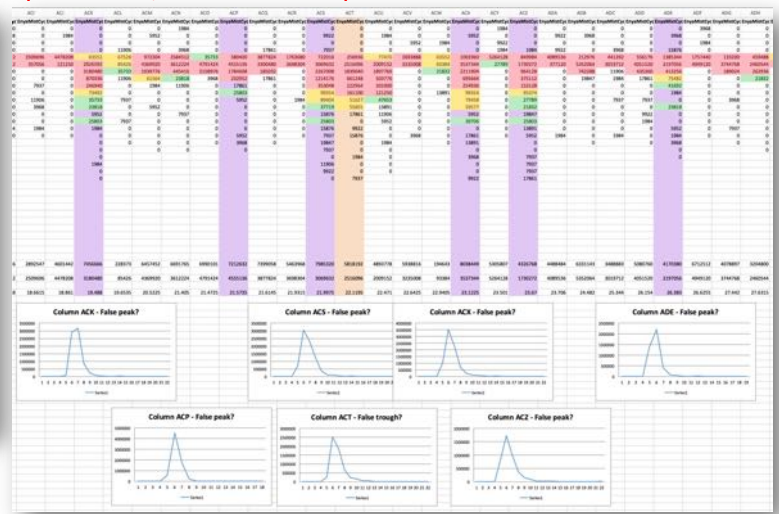
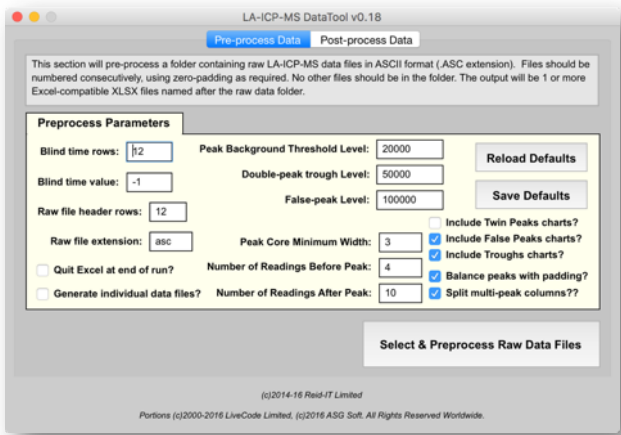


Certificate Maker (LiveCode, 2014-current)



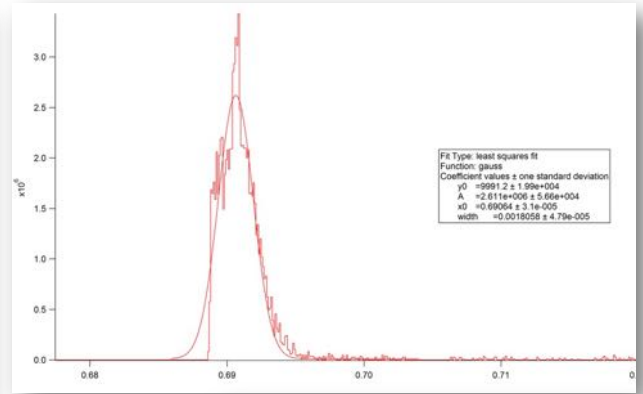
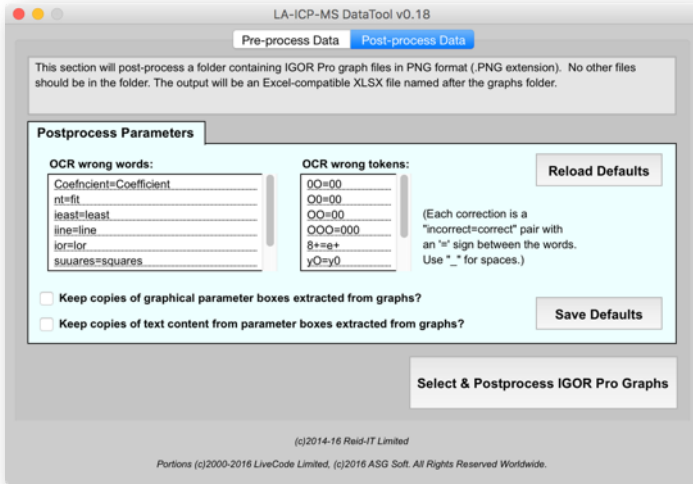
- Extracts course attendees from spreadsheets and generates certificates in PNG, JPEG or PDF format
 - specific requirement to handle names with accents as courses are delivered across Europe
 - proved to be much faster and less error-prone than previous methods

LA-ICP-MS DataTool (LiveCode, 2015-current) 1/2



- Vaporised samples produce vast amount of data:
 - pre-process:
 - each run output 200 rows by 1900 columns
 - multiple runs to be merged & peaks identified and graphed (30 rows of 1100 columns)
 - replaced 6 hours manual processing with 10 mins automated processing

LA-ICP-MS DataTool (LiveCode, 2015-current) 2/2



Fit Type: least squares fit
 Function: gauss
 Coefficient values ± one standard deviation
 y0 =9991.2 ± 1.99e+004
 A =2.611e+006 ± 5.66e+004
 x0 =0.69064 ± 3.1e-005
 width =0.0018058 ± 4.79e-005

- post-process:
 - pre-process output fed into curve-fitting app, which generates graphic output
 - used OCR techniques (Open Source Tesseract-OCR) to locate & extract curve metrics
 - combined these metrics into spreadsheet with computed products
- significantly reduced processing time and error rates by comparison to manual processes



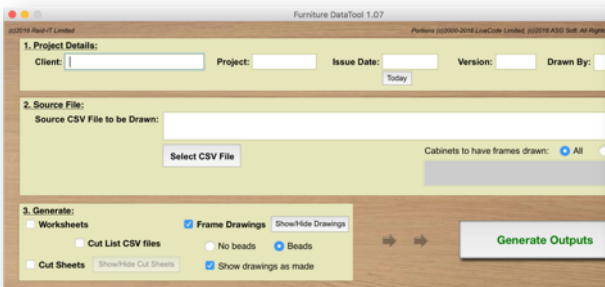
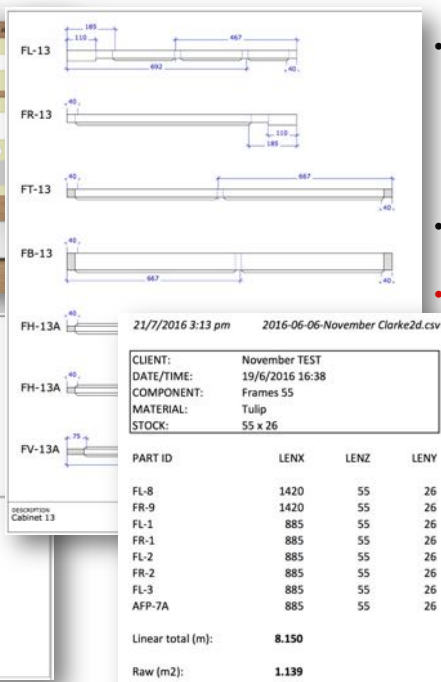
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Furniture DataTool (LiveCode, 2015-current)

PART ID	LENX	LENZ	LENY
FL-8	1420	55	26
FR-9	1420	55	26
FL-1	885	55	26
FR-1	885	55	26
FL-2	885	55	26
FR-2	885	55	26
FL-3	885	55	26
FR-3	885	55	26
AFP-7A	885	55	26

Linear total (m): 8.150
 Raw (m2): 1.139

- Takes CSV output from 3D design app & generates:
 - frame drawings
 - sheet-cutting drawings
 - component lists
 - cut-lists
- Output formats:
 - CSV, XLSX, PDF, SVG
- Significant savings:
 - 1-3 days of manual effort per design reduced to 1-2 hours
 - significantly reduces errors and material wastage



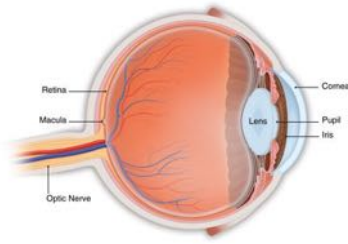
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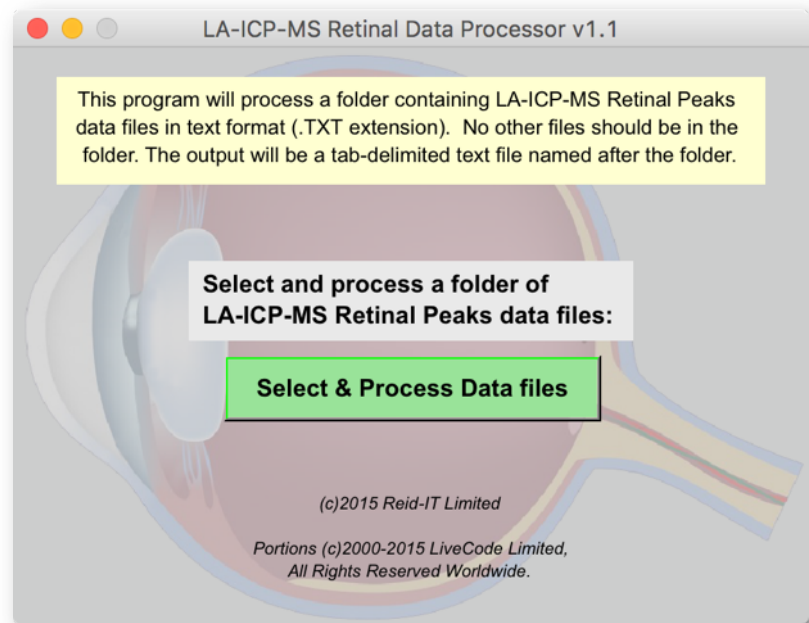
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LA-ICP-MS RDP (LiveCode, 2015)



- Merges a series of text output reports from curve-fitting software into compound spreadsheet
- Involves identifying genuine peaks from false signals
- Data is from retinal tissue samples looking for Zinc & Copper relevant to AMD condition



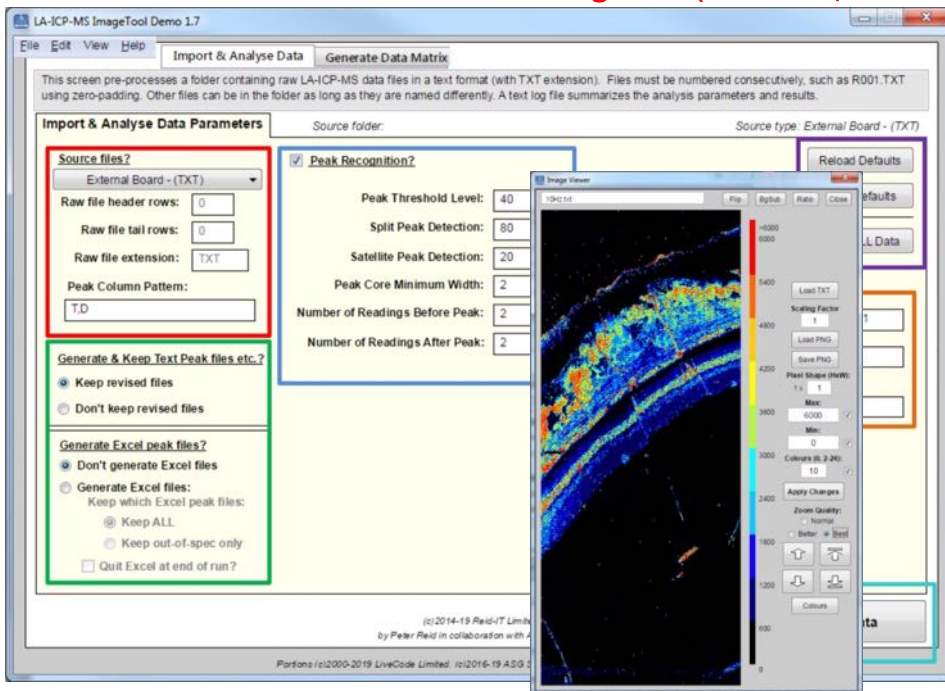
SpeedyPlayer (LiveCode, 2016-current)



- Video player (Mac & PC)
 - 1st use of non-QT video
- Very high speed playback for rapid reviewing of security camera footage
- Took 30 mins to get first release fully operational



LA-ICP-MS ImageTool (LiveCode, 2016-current)



- Rapidly generates images from LA-ICP-MS data
- Locates peaks in raw data and uses them to segment the data and convert it to a matrix of colour coded pixels
- App processes baseline separated peaks from the latest generation of low-dispersion LA systems, can be applied to rastered imaging with other LA platforms
- Peak recognition can be used in single cell and single particle ICP-MS examples
- App used for imaging of zinc in a stained section of rat retina tissue at lateral resolutions down to 1 mm
- Less than two minutes to convert raw data into a 60,000 pixel image



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https://www.reid-it.co.uk/downloads/down_la_icp_ms_it.htm

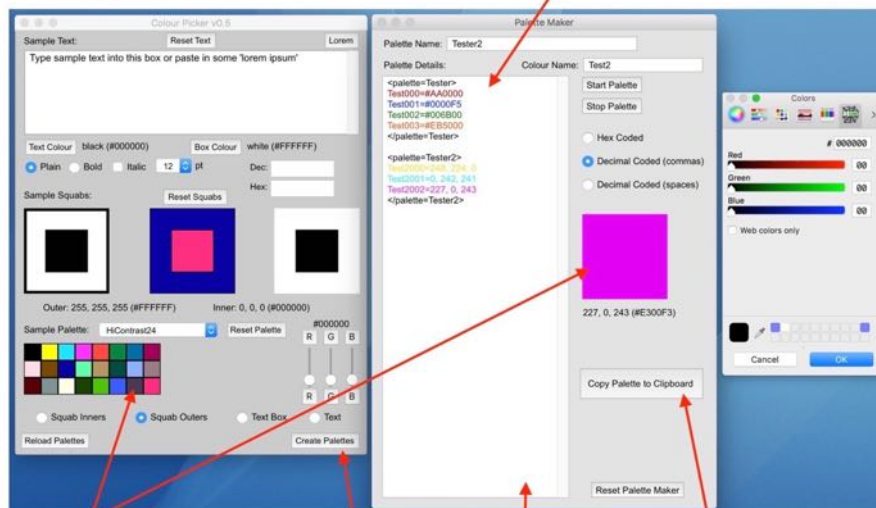
29



ColourPicker (LiveCode, 2017-current)

Palettes are stored in a text file named 'ColourPicker-palette.xml'

Palette Maker can be used to construct additional palettes



Clicking any colour object causes native OS colour pop-up to appear

Click to open 'Palette Maker' pop-up

Click to copy palette details to clipboard ready to be pasted into the palette file

- Provides a standalone colour picker
- Experiment with different colour combinations
- Provides a native colour pop-up
- Simple text-based palette files
- Supports hex and decimal colour codes
- For Macs, PCs and Linux



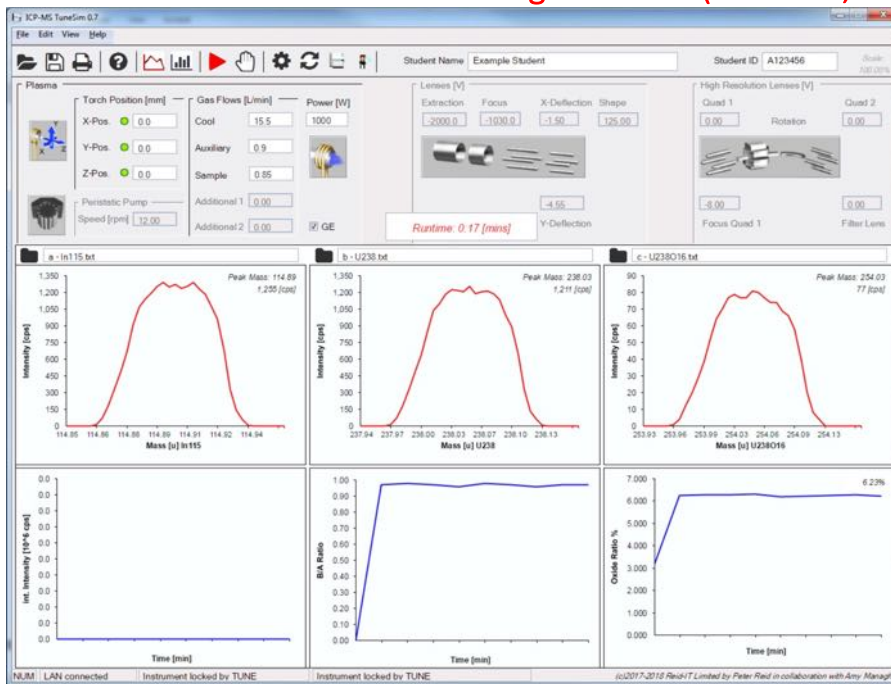
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<https://tinyurl.com/y6myhuxc>

30



ICP-MS Tuning Simulator (LiveCode, 2017-current)



- Simulates tuning of an inductively coupled plasma mass spectrometer (ICP-MS)
- Based on optimization data collected using a sector-field instrument
- Students can adjust parameters, such as the torch position, gas flows, radio-frequency power, and guard-electrode state, while observing the signal for three “measured” variables in real time
- Used by students to supplement theory in an Atomic Spectrometry course
- Students learn about key components of the instrument and how multiple factors may need to be balanced when performing optimization



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https://www.reid-it.co.uk/downloads/down_icp_ms_tunesim.htm

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Aphasia Trainer (LiveCode, 2018-current)



- Word recognition and pronunciation training for aphasia sufferers
- Runs on cheap Android tablets and phones such as Amazon Fire 7in tablet



- User sees words with pictures and tries to say them
- App judges whether user has said the right word
- Uses word packs to allow personalised vocabulary
- Can include videos showing mouth movement



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22+ Years of LiveCode

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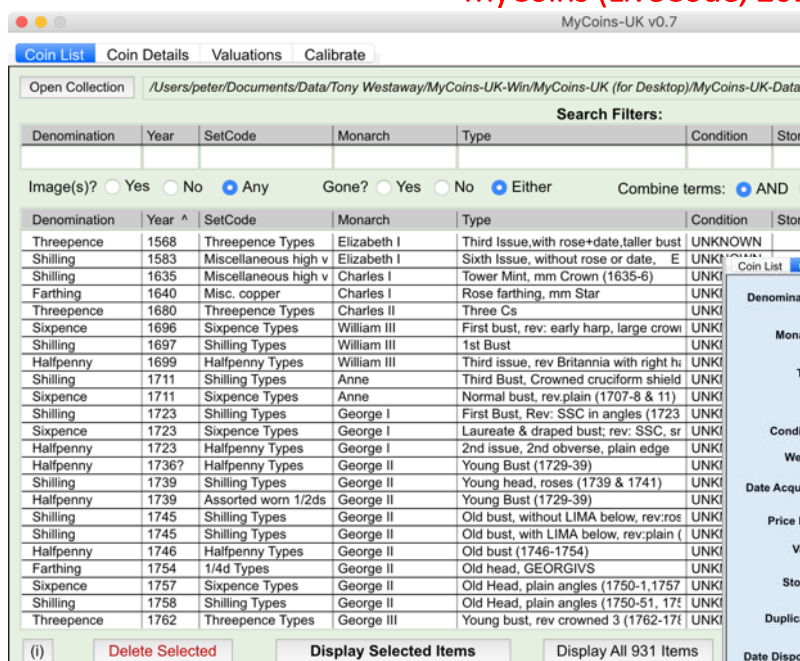
BingoBalls (LiveCode, 2018-current)



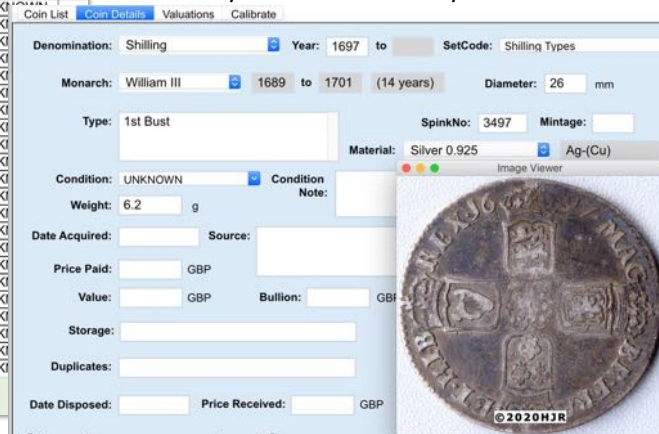
2	21	45	59		90
7	23		52	76	82
9	18	25		66	81

- Old favourite bingo
- Little tweak to basic rules to play using virtual meetings technology (Zoom, Teams, Skype, etc)
- The “Bingo Balls” app has been developed to be used with normal or virtual groups
- The app can use different computerised voices
- Phrases can be replaced with a list of your own choices to tailor them to the interests of your group of friends or family

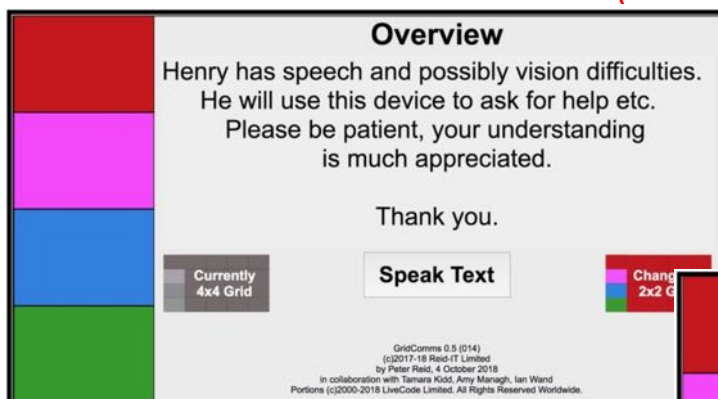
MyCoins (LiveCode, 2018-current)



- Developed to catalogue a substantial collection of over 950 British coins
- Variant can be used for coins from anywhere
- Primary database is a CSV text file
- Items can have two primary pictures, obverse/front and reverse/back of an item



GridComms (LiveCode, 2018-current)



- Tablet / mobile phones app allows a person with limited or no speech to communicate by playing commonly used short phrases
- Concept based on solution for Graham who suffered from a massive stroke leaving him almost completely paralysed, unable to speak

	I'm Hot!	I'm Cold	I'm Thirsty	I'm Hungry
	Control Music >>	Control TV >>	Control Heating >>	Control Lighting >>
	Control Windows >>	Control Doors >>	Control Furniture >>	Control Bed >>
General Comfort	Control Noise >>	Adjust Visits >>	Adjust Treatment >>	Adjust Medication >>

- Developed to work on cheap Android-based tablets and mobile phones (\$75/£50)
- Typical user likely to be elderly, disabled or both and have limited funds
- Also, these users will need a bespoke solution highly tailored to the particular individual



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<https://www.reid-it.co.uk/downloads/downgc.htm>

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MeSyProg (LiveCode, 2020-current)

Medication	End Date	Supply E/P	Current Tabs	Pack Size	Daily Tabs	Pack Cost £	Daily Cost £
Aspirin 75mg		P	26	28	1	0.77	0.03
Atorvastatin 40mg		P	41	28	1	1.24	0.04
Bisoprolol Fumarate 1.25mg		P	25	28	1	0.93	0.03
Cholecalciferol (Vitamin D) 25mcg				365	1	11.99	0.03
Co-careldopa modified release 125mg		P	29	60	1	11.60	0.19
Glyceryl trinitrate 400micrograms				200		3.14	0.02
Losartan Potassium 50mg		P	39	28	1	1.90	0.07
Opicapone 50mg			30	30	1	93.90	3.13
Pramipexole PR 2.1mg base		P	14	30	1	150.58	5.02
Sinemet 62.5mg		P	154	90	10	15.37	1.71

28-day total: £198.52 Daily total: £7.09

Medication	Supply Opt	Tabs Req	Tabs Supp	Packs Supp	Tab Cost £	Supp. Cost £	Excess Tabs	Excess Cost £
Aspirin 75mg	P	7	28	1	0.03	0.77	21	0.58
Bisoprolol Fumarate 1.25mg	P	8	28	1	0.03	0.93	20	0.66
Co-careldopa modified release 125mg	P	4	60	1	0.19	11.60	56	10.83
Pramipexole PR 2.1mg base	P	19	30	1	5.02	150.58	11	55.21
Sinemet 62.5mg	P	176	180	2	0.17	30.74	4	0.68

Prescription total: £194.62 Excess total: £67.96

- Help patients who would like to receive medication once per month
- Helps GP and pharmacy synchronise medications reducing delivery to once per month
- Medication is supplied as whole packs, typically with 28 tablets per pack
- GP and/or the pharmacist has to pay for medication earlier than is desirable, impacting on cash-flows
- Available for download, free to use.



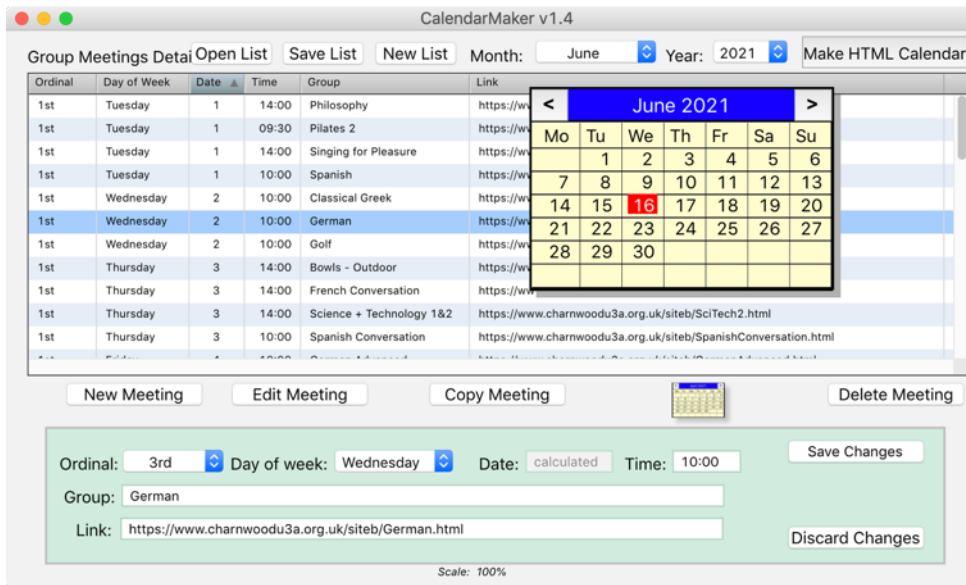
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https://reid-it.co.uk/downloads/down_medsync.htm

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CalendarMaker (LiveCode, 2021-current)



- Manages calendar events for approx. 90 special interest groups
- Events are specified in the form “*2nd Tuesday of the month*”, “*Last Friday of the month*”, etc.
- Generates weekly and monthly events calendar
- Generated calendars are in HTML format suitable for insertion into web site
- Also generates different format monthly calendar for monthly newsletter
- Available (by request) and free to use.



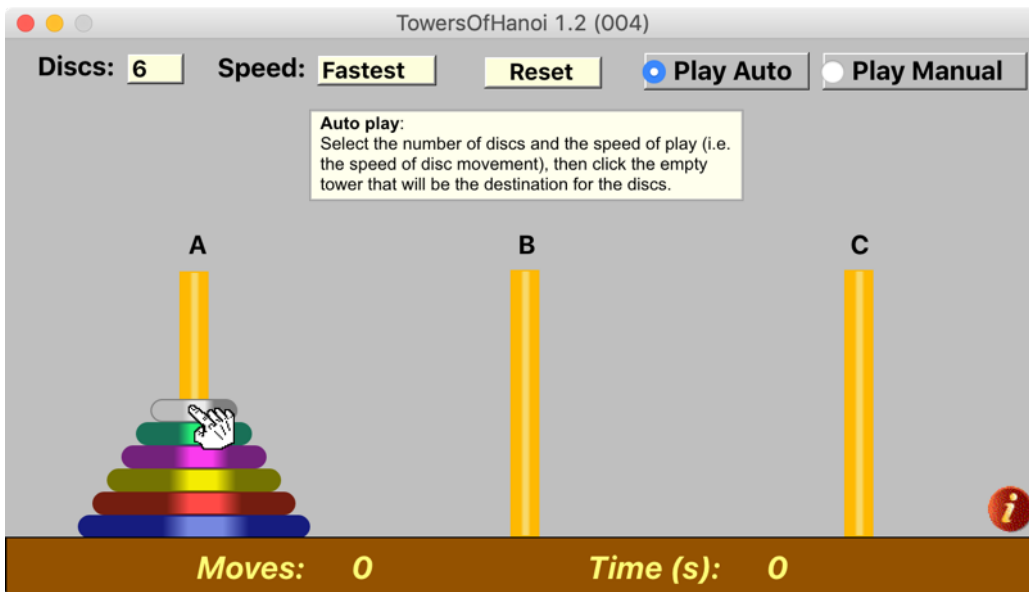
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22+ Years of LiveCode

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Towers of Hanoi (LiveCode, 2021-current)



- Based on classic game
- Commonly used as example of programmed recursion
- In auto mode, computer plays game
- Includes interactive mode so user can play the game separately
- Available for Windows PC, Macintosh & Linux Mint
- Available (by request) and free to use.



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22+ Years of LiveCode

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Assorted Utilities (LiveCode, 2000-current)

- LiveCode is often used for a variety of small utilities, focussed on some simple requirement that's needed for a brief period and then discarded afterwards:
 - Variety of mini and partial apps, often run within IDE, not made into standalone apps
 - Mainly concerned with data capture, conversion, manipulation, and aggregation
 - Minimal / basic user interfaces
 - Single platform, typically Mac only
 - Almost throw-away
 - Library collections, reusable code fragments



Slide 42!

LiveCode

the Answer to Life, the Universe and
EVERYTHING*

well maybe not EVERYTHING, but close!

** The Hitchhiker's Guide to the Galaxy, Douglas Adams, 1978*

Summary

- LiveCode (Revolution, MetaCard) effective for wide range of uses
- Developing in LiveCode is very quick
- LiveCode is rewarding to use, both in terms of ATM and 😊
- Old code can be reactivated and updated
- LiveCode stands the test of time!
- Is it “perfect”?
 - no, as they say “Pobody’s Nerfect!”
 - but it’s highly usable & getting better over time!

• ~~18~~ years and counting.....
 22 years and **still** counting.....



22+ Years of LiveCode

<http://www.reid-it.co.uk/downloads/downlc.htm>
<http://tinyurl.com/zelqbj>

The End

A History of Developing Software in LiveCode

This web page contains a presentation by Peter Reid (<https://www.reid-it.co.uk/background.html>) about his experience developing software/apps using a little-known software development system called LiveCode (<https://livecode.com>). Peter first used LiveCode in 1998, when it was known as “MetaCard” before briefly being named as “Runtime Revolution”, and finally becoming “LiveCode”. LiveCode’s facility to support software development on Macintoshes, Windows PCs and Linux systems and then deploy such software onto iOS, iPhoneOS and Android devices in addition, sold itself to Peter as the best development environment for the variety of apps that he wanted to develop over the years.

Downloads:

- 15-min presentation about 22 years of LiveCode experience – [22yrs_of_LiveCode.pptx \(87.5MB\)](#)
- 30-min presentation about 22 years of LiveCode experience – [22yrs_of_LiveCode.pdf \(26.7MB\)](#)
- TimeFiles app (Mac) – [TimeFiles_Mac_1_02.zip \(6.2MB\)](#)
- TimeFiles app (Win) – [TimeFiles_Win_1_02.zip \(5.4MB\)](#)
- TimeFiles LiveCode source (Mac/Win) – [TimeFiles.livecode \(510KB\)](#)

Notes:

1. The presentation is longer than 15 minutes if you look at all slides (42 of them). However, the key slides are 1-5 and those linked in red on slides 3 and 4.
2. The TimeFiles app was used to generate the video clip on slide 4 of a calendar pad moving through time. It works on a recent Mac & PC and has some hidden features:

TimeFiles Features

Click zones

zone 1: switch between standard & irregular window shape (Mac only)

zone 2: reset the demo

zone 3: start/stop running calendar

zone 4: show/hide control panel

demo parameters: from month/year to month/year at speed (1-6, slow-fast)

Click anywhere in the window & drag whilst holding the Shift key to move the window

From: April 1998 To: July 2016 Speed: 3 Go

Set Date (month, year) 7, 2016 Set

go back 1 month go to specified month, year go forward 1 month

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