

MADE WITH PC AND ZX-81 16KB

1000 / TIMEX 1500 MAGAZINE
ADDRESS: YERZMYEY@INTERIA.PL, 07.2008 ZX-81 ISSUE 1.

US GET IS A NEW MAGAZINE SO. - HERE ZX81 FANS. :) IT IS KINDA EXPERIMENT FOR NOW; WE DO NOT KNOW IF IT SUCCEEDS OR FAILS. THE IDEA OF MAKING IT CAME TO KNOW IF IT ME FROM ANDRE***S FINE MAG "ZX91". HE MADE A GREAT WORK WITH EDITING IT WITH PURE ZX81 AND ZX-PRINTER. BUT IT <u>WAS 17 YEARS AGO, AND NOW AC-</u>



CESS TO THINGS LIKE MENTIONED ZX-PRINTER OR IS STRONGLY LIMITED. PAPER FOR IT THAT'S WHY WE DECIDED TO TRY EDITING THIS MAG USING PC COMP (TXT, PHOTOS) & ZX81 FOR SCREENSHOTS & GRAPHIC (FOR INSTANCE LOGO OF THIS MAG I MAG THIS MAG I MADE GRAPHIC WOR INT.
WITH MY ZX81, AND SO WAS WI
ABOVE, MADE BY ANDRE HEH...
ANYWAY ANDRE AGREED TO HELP
HOPE MORE PEOPLE WILL SEND
THEM TO MY AND SO WAS WITH THE PICTURE :) WITH TEXTS AND

SEND THEIR ARTICLES :) YOU CAN SEND BLE ABOVE. THEM TO MY EMAIL ADDRESS VISI-

WE DO HOPE YOU WILL LIKE OUR MAG.

◎ BY YERZ

BONJOUR ADVENTURERS!

ERE IS THE <u>GOLD V</u> ING FOR! "<mark>DUNRIC"</mark> <u>GOLD VERSION PEOPLE</u> HAVE BEEN WAI-<u>DUNRIC'S 8K ADVENTURE</u>"! HAVE NOT

WELCOME TO ... DUNRIC"S 8K ADVENTURE A GAME BY BAUL BANKS ZX81 VERSION BY ANDRE*** ■HE SKY DARKENS AS YOU ARE CARRIED AWAY TO...

ONLY A WORKING ADAPTED VERSION,
NOW, I HAVE AN IMPROVED LESS THAN 10K VERSION THAT WORKS VERY WELL. IT IS FASTER AND HAS MORE VARIED ANSWERS TO YOUR INPUTS. THE COMBAT SECTION HAS B DONE, CODE AND PRINTING. THE **BO**, **BET** AND **PROP** ARE BEEN RE-SO, BET AND DROP ARE FASTER EXAMINE SECTION ALLOWS MORE FASTER. THE VARIED ANSWER<u>s.</u> EXAMINE THE OBJECTS YOU CAN ONLY POSSESSED OR POSSESSED OR <u>PRESENT</u>L IF YOU LEAV<u>E</u> THE **ROPE** Y VISIBLE. ROZZ OŇ THE

TREE YOU DO NOT HAVE IT AGAIN TO RLIMB.

ROPE THEN YOU MUST RE-USE IT YOU RE-**Ben** THE CLIMB-UP. AGAIN TO YOU CAN NOT RE-**USA** THE **TANIFORN** AFTE IT BECAUSE YOU HAVE NO MORE **DID.** SO OT RE-ENTER THE **WESTERN WOODS** FROM <u> Antern</u> after you SO YOU DROP CAN NOT ANY DIRECTIONS. TO THE **WESTERN WOODS** IS NOW IT THE **LANTERN**). ACCESS IMPOS-LANTERN). SIBLE WITHOUT BRI AND DRINK SECTIONS HAVE BEEN IMPROVED. THE LATEST VERSION IS DAT HERE: HTTP://TINY.PL/KS88 IS DATED JUNE 29 AND IT Ō **ANDRE***** BY

FERENGI NEW GAME FOR SOME AUTO-ADVERTISEMENT AT LET ME MAKE THE BE-*FERENGI* IS A GAME MADE ΙN JUNE GINNING. ;) ARE 2 VERSIONS OF IT: 2008. THERE 2KB (FOR UN-EXPANDED TIMEX 1000) AND 4KB FOR OTHER MA-GAME IS HERE: HTTP://TINY.PL/KKH8 CHINES. THE



AND IT CONTAINS NOT ONLY *.P_ FILES BUT ALSO *.WAV FILES TO THEM ON RECORD CASSETTE AND **IMAGES** *.JPG OF TAPE'S COVER-THE ENJOY!!!! :) ART. YERZ ® BY

MUSIC DEMOS ON ZX-81 וַוּ WELL, WAS ALWAYS SAYING THAT I ZX81 *HAS* IT IS BUILT IN SIMILAR Z80 CHIP AND ULA CHIP. IS BUILT IN SIMILAR WAY AS I MEAN -SOUND. SPECTRUM IS. IF 50 SPECTRUM CAN GENERATE SOUND VIA MIC'PORT, THEN ZX81 SHOULD BE ABLE TO DO THE SAME THING I THOUGHT AT FIRST IT SHOULD EASY TO ВΕ ZX48K BEEPER MUSIX CONVERT ALL INTO ZX81 BUT REALIZED THAT DIFFERENCES IN THE COM-THEN I PUTERS, SPEED ARE PROBABLY TOO BIG. STILL ABLE TO GENERATE MUSIC WITHOUT *ANY* ADDITIONAL DEVICES. <u>FOR</u> NOW I SPOTTED TWO MU-OS FOR ZX81: ZX BEATLES AND ZX81 MUSIC INTERPRETER). SIC DEMOS FOR CLASSIK (ALIAS ZX BEATLES BOTH OF

THEY PROOVE THAT ING AND EUERY ENCYCLOPEDIA IS WRONG ABOUT ZX815 POSSIBILITIES COMPUTER, NING, WAS FROM THE VERY BEGIN-

TO GENERATE MU-NING, ABLE SIC.

ZX81 MUSIC INTERPRETER

- APANHEI-TE, CAVAQUINHO (ERNESTO NAZARETH)
 NOTURNO OP.9 NR.2 (J. F. CHOPIN)
 THE ENTERTAINER (SCOTT JOPLIN)
 GREENSLEEVES (ANONIMO)
 FUR ELISE (L.U.BEETHOUEN)

- (ANONIMO)

 FUR ELISE
 (L.V.BEETHOVEN)

 JESUS, ALEGRIA DOS HOMENS
 (J.S.BACH)

 SYMPHONIE NR.9
 (L.V.BEETHOVEN)

ESCOLHA UMA MUSICA PARA TOCAR

HOPE THEY ARE NOT THE LAST ONES MUSIC-

DEMOS FOR OUR COMPUTER AND WOULD BE REALLY COOL IF PEOPLE MORE MADE SOUND-ENGINES AND MORE ZX81 MUSIC DEMOS.

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BOTH PROGRAMS ARE DOWNLOADABLE SIGGIS SERVER: FROM

HTTP://TINY.PL/KKGU <u>(IT IS WORT</u>H TO MEN TO MENTION THAT THIS SERVER HAS UP

<u>ON...</u> ZX81 COMPUTER!

YERZ (O BY

> ELEANOR RIGBY
> TICKET TO RIDE
> A HARD DAY"S NIGHT
> MICHELLE
> ALL MY LOUING
> LET IT BE
> HEY JUDE
> YESTERDAY

ESCOLHA A MUSICA

MUSICAS DE JOHN LENNON E PAUL MCCARTNEY

Í WÁÑT TÓ HOLD YOUR HAND YOU CAN"T DO THAT

1-KILOBYTE CORNER

NOT EVERYBODY HAS EXPANDED ZX81. THERE STILL ARE PEOPLE WHO HAVE ONLY 1KB OF RAM ON THEIR BELOVED ZX81. THIS CORNER IS FOR SUCH GUYS. :) YOU CAN FIND HERE INTERESTING PROGRAMS FOR YOUR CONFIGURATION. THESE PROGRAMS PROVE THAT GOOD GAMES DO NOT MUST HAVE MILLIONS OF KILO-BYTES. :)

"SERION" - IT IS NOT BAD GAME, 473 BYTES LONG. YOU HAVE TO ENTER ALL GATES WITH YOUR VEHICLE. THE PROG COUNTS YOUR POINTS WITH PASSED GATES. THE GAME IS A BIT TOO SLOW, IN MY HUMBLE OPIN-ION. CONTROLS: CURSORS (LEFT/RIGHT). DOWNLOAD

LINK: HTTP://TINY.PL/K6MM
"SPACE PIRATE" DOES NOT LOOK BAD, HOWEVER IT
IS KINDA DIFFICULT TO ME. IT IS BECAUSE OF
PRETTY RANDOM MOVEMENT OF THE SPACESHIPS YOU
HAVE TO DOCK IN, TO STEAL THEIR CARGO.:) YOU
NEED A LOT OF LUCK HERE, THE GAME IS NOT BAD
'THOUGH. IN THIS CASE GAINED POINTS ARE COUNTED
IN... POUNDS.;) THE GAME HAS 724 BYTES. CONTROLS: CURSORS (LEFT/RIGHT). DOWNLOAD LINK:

HTTP://TINY.PL/K6MW
"BAR GRASH" IS A COOL 630 BYTES GAME. I PLAYED
THIS GAME SOME TIME, WITH PLEASURE. YOU TAKE A
PART IN A CAR RACING. YOU HAVE TO AVOID OTHER
PASSING CARS AS WELL AS THE ROAD'S EDGES. YOUR
POINTS ARE COUNTED IN TRAVELED KILOMETERS. :)
CONTROLS: CURSORS (LEFT/RIGHT). DOWNLOAD LINK:

HTTP://TINY.PL/K6MD
"MRN-EATING BUDGIES" IS ANOTHER
COOL, PRETTY FAST (IN ACTION)
GAME. IT IS 579 BYTES LONG. YOU
HAVE TO STEAL EGGS FROM... MANEATING BUDGIES OF COURSE.:)
HOW MONTY-PYTHON-ISH.;) REALLY
PLAYABLE STUFF, HOWEVER IT IS
NOT AN EASY GAME. CONTROLS:
CURSORS (LEFT/RIGHT). DOWNLOAD
LINK: HTTP://TINY.PL/K6M6
"1KB CHESS / ZX CHESS / CHESS

KING" - I WILL TELL YOU

STRAIGHT: I DO NOT PLAY CHESS SO I DO NOT KNOW
HOW GOOD IS THIS GAME. HOWEVER IT IS WORTH TO
EMPHASIZE THAT OTHER COMPUTERS, OWNERS CANNOT
EVEN IMAGINE HOW IS IT POSSIBLE TO MAKE CHESS
GAME IN 1KB!! (IN THIS CASE - 941 BYTES :)).
DOWNLOAD LINK: HTTP://TINY.PL/K6GX
I THINK THAT WOULD BE ALL FOR TODAY. ENJOY
YOUR UNEXPANDED 7X81! IT IS A POWERFUL MA-

YOUR UNEXPANDED ZX81! IT IS A POWERFUL MA-CHINE!!

RWAP SOFTWARE - RETRO COMPUTING I STARTED OFF LEARNING TO PROGRAM COMPUTERS ON THE ZX81 IN 1982 - LITTLE DID I REALISE THAT I WOULD STILL BE SUPPORTING THE SINCLAIR COMPUTERS 26 YEARS LATER, GROWING THE BUSINESS TO PROVIDE NEW HARDWARE AND REPLACEMENT PARTS! IN FACT OVER THE PAST FEW YEARS, I HAVE BEEN INSTRUMENTAL IN GETTING NEW REPLACEMENT KEYBOARD MEMBRANES MADE FOR BOTH: THE SINCLAIR QL, RUBBER KEY SPECTRUM AND THE ZX81 (THE LATTER WILL BE PRODUCED DURING 2008).

I AM IN TOUCH WITH VARIOUS DEVELOPERS AND AL-WAYS ON THE LOOKOUT FOR NEW HARDWARE PROJECTS FOR FINANCING AND BRINGING TO MARKET IN ORDER TO REVIVE INTEREST IN THESE HUMBLE MACHINES. I HAVE CREATED A FORUM SPECIFICALLY AIMED AT THE ZX80 AND ZX81 USERS (WWW.RWAPSERVICES.CO.UK/ZX80_ZX81/forums) AND WITHIN THE FIRST COUPLE OF MONTHS, THIS HAS ATTRACTED A LOT OF USERS AND DISCUSSION SHOW-ING THAT THERE IS STILL A LIVELY MARKET OUT THERE.
FOR MORE DETAILS, CONTACT US VIA THE WEBSITE: WWW.RWAPSOFTWARE.CO.UK

SQUEEZING A DRAGON INTO 16KB AND ZX-81

USED TO BE AN ADVENTURE GAME WAS WRITTEN TO LET THE PLAYER ESCAPE HIS OR HER MUNDANE WORLD OF DRAB ECONOMICS, DULL MIND GAMES AND OTHER TRIALS AND TRIBULATIONS OF LIFE. WHEN THE FIRST ADVENTURES ROLLED OFF THE SO-CALLED "ASSEMBLY LINES" IN THE LATE 1970S, SUCH AS THOSE BY SCOTT ADAMS, THE AVERAGE USER COULD PLUG THE ADVENTURE GAME IN AND ESCAPE INTO A WORLD OF FANTASY, WHERE HOBBITS, DRAGONS AND OTHER ASSORTED BEINGS LAY IN WAIT, GOLD AND GLORY ASIDE.

AS FOR THIS AUTHOR, I HAVE PLAYED A NUMBER OF ADVENTURE GAMES IN THAT MOLD, THE PURE 'FAN-TASY' REALM OF A DUNGEONS & DRAGONS-STYLE QUEST. AND NOW I HAVE SPENT THE PAST DECADE AND A HALF WRITING THEM, WITH OVER 38 TO MY CREDIT (AND COUNTING).

THE LATEST RELEASE IS A PORT OF 8K ADVENTURE TO THE ZX SPECTRUM AND ZX-81, RESPECTIVELY. KNOWING THAT I LACKED THE GENERAL EXPERTISE TO CONVERT BOTH VERSIONS, I "FARMED" OUT THAT TASK TO VARIOUS PROGRAMMERS ON THE FORUMS, HOPING THAT THEY MIGHT BE ABLE TO DO WHAT I COULD NOT: SQUEEZE 8K ADVENTURE INTO SPECTRUM-LAND.

"GUS" OVER AT THE SINCLAIR ZX80 / ZX81 FORUMS WAS MORE THAN HAPPY TO DO THIS, SPENDING A MONTH GETTING THE GAME JUST RIGHT. ON JULY 1ST, HE RELEASED THE FINAL VERSION IN WORKING ORDER. "ANDRE" WROTE A MUCH MORE COMPACT VERSION OF HIS OWN, BUT AS OF "PRESS TIME" IT WAS NOT YET AVAILABLE. BUT I AWAIT HIS WITH ANTICIPATION.

A FEW ANECDOTES FROM THE CONVERSION PROCESS OF BOTH VERSIONS: THE PLAYER COULD ATTACK ANY MONSTER FROM ANY ROOM HE OR SHE LIKED, SORT OF LIKE ENTERING "THE TWILIGHT ZONE" OF ADVENTURE GAMING. THIS BUG WAS FIXED IN BOTH VERSIONS. ANOTHER PROBLEM STEMMED FROM THE WORD WRAP ROUTINE, GETTING LINES TO FIT AS MUCH AS POSSIBLE ON THE 32 CHARACTER SCREEN LIMIT. "GUS" HAD THE WORD WRAP ROUTINE DOWN BY LATE JUNE, AND THE GAME WAS WORKING FINE ENOUGH TO BE RELEASED A FEW DAYS LATER.

ON THE ZX SPECTRUM, 8K ADVENTURE USED COLORED TEXT JUST LIKE IN THE ORIGINAL COMMODORE 64 VERSION. THE MOVEMENT WAS ALSO FAST AND FURI-

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OUS, ALLOWING THE PLAYER THE FREEDOM TO ROAM THE LAND LIKE A DRAGON SLAYING "NEO." 8K AD-VENTURE HAD A MINIMAL APPROACH TO ITEMS, WITH ONLY THE MOST ESSENTIAL INCLUDED IN THE GAME. AN INVENTORY LIMIT WAS ALSO SET, MAKING CREATIVE USE OF THE DROP COMMAND IN SPECIFIC ROOMS MANDATORY.

NOW THAT BOTH ADVENTURES HAVE BEEN BUG FIXED AND TESTED, IT IS MY PLEASURE TO RELEASE THEM TO THE ZX COMMUNITY. IT JUST GOES TO SHOW HOW COOPERATION AND TEAM WORK CAN GO A LONG WAY TO MAKING SUCH AN ADVENTURE POSSIBLE. NOW PUT ON YOUR SUBJECT OF YOUR ARMOR AND GRAB YOUR SWORD...AN ADVENTURE AWAITS!

② PAUL <DUNRIC@YAHOO.COM>
THE GAME IS HERE:

THIS VERSION OF EDIT:

HTTP://TINY.PL/KUJC

RETROBEAMER NEW GAME. А

ING PEOPLE BY ŠΗΙΡ.

ONE OF THE REALLY COOL ZX81 GAMES MADE THIS YEAR IS "RETRO BEAMER 2" BY JENS AND ANDRE***. IS AN ARCADE GAME ABOUT SAV-

BEAMING THEM <u>INTO YÖUR SPACE-</u> ∵.) YOU HAVE ONLY 3 BEAMS FOR ONE RESCUED GUY. YOU SUCCEED .

3 BEAMS. IF YOU YOU GET NEW DON'T RESCUE ONE SINGLE MAN YOU END THE GAME. THAT IS A PROG HOWEVER IT REALLY COOL IS NOT EASY. CURSORS (5,8 AND 0 FOR FIRE). CONTROLS:

DOWNLOAD LINK: HTTP://TINY.PL/K669 THE GAME! ENJOY

@ BY YERZ

:)

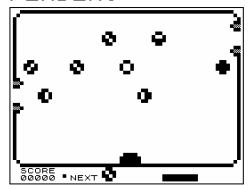
MAKING BAL OF FOR ME THERE'S NOTHING QUITE LIKE THE THRILL OF SINGE. NOT FASTER-THAN-AVERAGE-BESTIC SPEED, THOUGH THERE'S NOTHING WRONG WITH THAT, I MEAN REAL 5000 SPEED. F1 SPEED. WHICH IS RELA-TIVE, OF COURSE;) WHEN IT'S A ZX81 WE'RE TALKING ABOUT THEN CRAMMING AS MANY INSTR INSTRUC-TION EXECUTIONS INTO THE TINY SLICE OF PROCESSOR TIME THAT YOU HAVE IS THE MAIN THING. NO, STRIKE THAT. IT'S THE DNLY THING!
THERE'S SOME INTERESTING TECHNIQUES IN USE IN B. NOT INTERESTING REZURRECTION/25TH ANNI INTERESTING RESTING TOOMS TERESTING, BUT WHO KNOWS, MAYBE THEY CAN BE PUT TO GOOD USE ELSEWHERE...

I DEVELOP ON THE BC WITH A CROSS ASSEMBLER
CALLED FISH. NOT THE BORLAND ONE - THE TELEMARK ONE. IT ENABLES ME TO QUICKLY EDIT AND
ASSEMBLE THE CODE TO A RAW BINARY FILE WHICH IS CUNNINGLY STRUCTURED TO MAKE IT LOOK LIKE I
REGULAR PIFILE. THIS CAN THEN BE DROPPED INTO
OR INDEED ANY OF YOUR FAVOURITE EMULATORS! WHEN THE PROGRAM RUNS THE FIRST THING THAT DOES IS DRAW THE MAIN SCREEN. THIS AND THE OTHER FULL-SCREEN GRAPHICS ARE STORED IN A COMPRESSED FORMAT KNOWN AS RES. THIS IS A RELATIVELY POOR COMPRESSION METHOD

USED FOR BITMAP DATA. IT ENCODES RUNS OF DIFFERENT OR SIMILAR BYTES AS PACKETS. IT'S VERY
DUMB, BUT EASY TO UNDERSTAND AND CODE. THE
SCREENS ARE DRAWN IN THE EXPREND YONE PACKAGE
AND EXPORTED TO A FILE. THIS IS RUN THROUGH AN
ENCODER TO GENERATE THE RED DATA WHICH IS THEN
CUT'N'PASTED INTO THE CODE. I'M HAPPY FOR ANYONE TO HAVE ANY OF THE TOOLS I'VE MADE. I
COULD EVEN HACK JUST THE RED ROUTINES INTO A

THERE IS NO MAIN LOOP IN THE GAME. ONCE ALL THE DATA IS INITIALISED EXECUTION CONTINUALLY PASSES FROM ONE ROUTINE TO ANOTHER. THERE IS A LINKED LIST OF STRUCTURES WHICH CONTAIN PRIVATE DATA, A POINTER TO THE NEXT DATA STRUCTURE IN THE LIST AND A POINTER TO THE NEXT INSTRUCTION TO BE EXECUTED. WHEN ONE ROUTINE DECIDES TO PASS ON CONTROL IT STORES THE ADDRESS OF ITS NEXT INSTRUCTION IN THE DATA AND JUMPS TO THE EXECUTION ADDRESS WHICH IS STORED IN THE NEXT DATA BLOCK IN THE LIST. PHEW! THIS MEANS THAT EVERY FUNCTION IN THE GAME THINKS ITS RUNNING ALL ON ITS OWN. IT YIELDS EXECUTION TO THE NEXT FUNCTION AND WHEN CONTROL RETURNS IT'S CARRYING ON FROM WHERE IT LEFT OFF. FUNCTIONS CAN DECIDE TO STOP RUNNING AND WHEN THIS HAPPENS THEY SIMPLY UNLINK THEIR DATA BLOCK FROM THE LIST. SIMILARLY WHEN A NEW PROCESS NEEDS TO RUN A DATA BLOCK IS ALLOCATED AND LINKED INTO THE LIST AT AN APPROPRIATE PLACE.

THIS MAGIC IS KNOWN AS CO-OPERATIVE MULTITASK-ING. I'VE SEEN IT USED EVERYWHERE FROM ENTER-PRISE SCALE NETWORKING ENVIRONMENTS LIKE NETWORE DOWN TO GAMEBOY GAMES. IT'S ALSO HOW MOST OF WILLIAMS' EARLY GAMES WORK. INCLUDING DEFENDER.



SO THE PROCESSOR IS MERRILY JUMPING AROUND FROM FUNCTION TO FUNCTION, NEW ONES ARE BEING ADDED, AND SOME ARE DYING. MOST OF THE *GAME* OBJECTS LISTEN OUT FOR A SET OF SIGNALS WHICH CONTROL THEIR LIFE SPAN. THERE'S A *TIMEOUT* SIGNAL WHICH IS FIRED BY THE TIMER, A COUNT OF LIVE TARGETS WHICH TRIGGERS THE NEXT LEVEL OBJECT WHEN IT HITS ZERO, AND A FEW

SIMPLE BUT TRICKSY WAY TO SYN-THIS IS THE BEST TRICK IN THE GAME THOUGH IS TO OF THE TY REGISTER. NORMALLY YOU CAN'T THE VALUE OF THIS PERSTED PERSON THE GAME THOUGH IS THE USE CHĂNGE VALUE OF THIS REGISTER BECAUSE THE ZX81

CRASH AS THE DISPLAY INTERRUPT USES IT. I

THE TY REGISTER TO POINT TO THE CURRENTLY WILL ACTIVE DATA BLOCK IN THE LIST. THE CODE THAT THEN USE IT TO ACCESS ITS IS RUNNING CAN IS RUNNING CAN THEN USE IT TO ACCESS ITS DATA EASILY. IN ORDER TO DO THIS I MAKE COPIES OF THE VALUES THAT THE DISPLAY ROUTINE EXPECTS INSIDE THE DATA BLOCKS. TRICKY HUH! THIS WAY CAN USE TO AND NOT SWEAT. I MIGHT ADOPT NOWEL FOR MY NEXT EFFORT BUT WITHOUT THE PROMISE OF A TS1000 KIT THERE'S GOING TO HAVE TO BE A DISTINCT LACK OF PROJECTS ON THE HORIZON

GET MY Z80 GLOVES ON AGAIN! YOU'VE FOUND THIS INTERESTING. HOPE YOU'VE I'D LOVE TO WRITE MORE AND WHO KNOWS IF THERE'S ANY IN-TEREST I MIGHT DO SO. THE CODE FOR THE GAME IS DISTRIBUTED WITH IT ALONGSIDE INSTRUCTIONS FOR HOW TO BUILD IT. THE CODE IS VERY WELL DOCU-MENTED AND IF YOU'RE EVER BORED ON A WET AF-TERNOON, THINK ON AND TAKE A LOOK. EIGHTYONELY YOURS, CHARLIE. **IKA** SI _~~_COMBAT_PLEASE! ~~ **TKE** SIR MORRIS.

EDIT: THE GAME (HOWEVER NON-FINISHED YET, BUT THIS VERSION PUBLISHED FOR PEOPLE) HTTP://TINY.PL/KUJ2

FILES ZX81 *.P JSING WITH MOST OF OUR READERS KNOW IT ALREADY BUT THERE ˈzx81<u>.</u> THIS ARTICLE ARE ALSO SOME NEW USERS OF FOR THEM. EMULATORS ARE NOT A GOOD WAY ΤО ASSOCIATE WITH OUR COMPUTER (OR WITH ANY OTHER 8-BIT MACHINE). FOR USING PROGRAMS MENTIONED TODAY WITH REAL ZX81 YOU HAVE TO CONVERT LATOR FILES: *.P INTO **BAW** OR **SAW** SOUND FORMAT. THEN YOU WILL BE ABLE TO LOAD THE PROGRAMS INTO YOUR ZX81 VIA OUT-PUT OF YOUR PC'S SOUND-CARD (SUPPOSEDLY WITH HELP OF ANY HI-FI FIER, TO BOOST THE SIGNAL). THERE ARE SECONVERTORS DOING THAT. ONE OF THEM IS PROPERTY. AMPLI-SEVERAL **Parem**

HTTP://TINY.PL/2H3D YOÙ WILL HAVE TO USE THE PROG IN **DOS** MODE (IN

PROMPT LINE, FOR EXAMPLE: C:/P2RA<u>W.E</u>XE AUTUMN.P AUTUMN.RAW). C:/P2RHW.EXE AUTUMN.P AUTUMN.RAW). NOW YOU HAVE A **REW** AUDIO-SAMPLE. WHAT TO DO NEXT? OPEN THE **REW** FILE (IN COOL**EDIM** OR SOUND**FORGE**, OR NOW YOU OTHER SAMPLE-EDITORS) A5:

SAMPLE RATE: 22050

CHANNELS: MONO

RESOLUTION: 8 BIT

THEN YOU CAN LOAD IT INTO THE ZX81 VIA **PG**'S SOUND-CARD OR SAVE THE **RAW** AS WINDOWS PCM **WAV** FILE AND BURN IT ON A **BDR.** ANOTHER WAY IS TO CONVERT IT INTO AN **MPS** FILE TO LOAD PROGS FROM AN MPS-PLAYER INTO ZX81. OF COURSE YOU CAN IT SIMPLY ON A CASSETTE. ALSO RECORD :) ENJOY! 0 BY YERZ

HIGHER TEXT-RESOLUTION ON. AS YOU SURELY KNOW, ZX81 CAN DISPLAY (IN TEXT

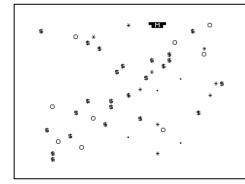
XAUSNAPNAP XAUSNAPZAUSNAPAUSNAP XAUSNAPXAUSNAPAPSNAP XAUSNAP> XAUSNAPXAUSNAPAPSNAP XXAUSNAPA

RESOLUTION) 32*24 CHARACTERS. XAUSNAS PUBLISHED LATELY VERY INTERESTING DEMONSTRATION PROGRAM THAT DISPLAYS - IN A SOFTWARE WAY ONLY (!!) - HIG TEXT_RESOLUTION: 84*24! :) - HIGHER

THE DEMO SHOWS THE NEW RESOLU-ITSELF AND TION ALSO ITS USAGE IN ARCADE GAMES OR TEXT-ADVENTURES.

ITS SOURCES ARE THE PROG AND HERE: HTTP://TINY.PL/2XRJ ENJOY!

BY YERZ



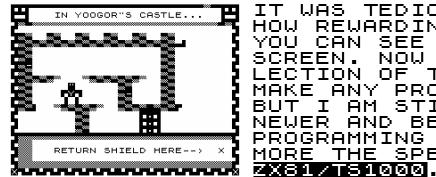
BONJOUR **ZX81/T51000** FANS,

IT IS A PLEASURE FOR ME TO PARTICIPATE AT THE MONOCHROME MAGAZINE. I HAVE BEEN AN UNCONDI-TIONAL FAN FOR 26 YEARS NOW. THERE ARE TWO MAIN REASON WHY I ENJOY CREATING PROGRAMS ON A ZX81:

1) THE CHALLENGE IN CREATING GRAPHICS TO LOOK AS CLOSE AS POSSIBLE TO REALITY WITHIN THE LIMITS OF THE ZX81. I CAN SPEND HOURS, DAYS EVEN WEEKS, TRYING DIFFERENT COMBINATIONS OF CHARACTERS TO COME UP WITH THE BEST GRAPHIC THE ZX81 CAN PRODUCE.

REMEMBER THE CHALLENGE WHICH WILL BRING YOU THE MOST RE-WARD WHEN YOU FINALLY COME UPWITH A SUCCESSFUL RESULT. I AM PARTICULARLY PROUD OF THE SERIES "BIPLO". A SERIES THAT KEEPS GROWING WITH MORE AND MORE NEW GRAPHICS.

2) THE CHALLENGE TO CREATE, LOOK WITH THE ZX81 BASIC, A SCREEN ANIMATION THAT WILL PERFORM FAST. TO ATTAIN THAT I HAD TO WORK LONG HOURS TESTING AND TIMING DIFFERENT WAYS TO WRITE PROGRAMS LINES. I COMPARED TWO DIFFERENT WRITING TO FIND OUT WHICH ONE GIVES ME THE FASTEST RESULTS.



IT WAS TEDIOUS, I ADMIT, BUT HOW REWARDING AT THE END WHEN YOU CAN SEE THE RESULTS ON SCREEN. NOW I HAVE QUITE A COLLECTION OF TIPS AND TRICKS TO MAKE ANY PROGRAM TO RUN FASTER. BUT I AM STILL LOOKING FOR NEWER AND BETTER METHODS OF PROGRAMMING TO IMPROVE FURTHER MORE THE SPEED OF OUR GREAT XX81/T81000.

IF YOU MADE OR WILL MAKE A PROGRAM AND YOU WOULD LIKE TO SEE IT RUN FASTER, SEND ME A COPY AND I WILL GLADLY SPEED IT UP FOR YOU.

HAVE FUN, ANDRE***

http://www.zx-team.de/andre

http://zx81.ordi5.free.fr/andre

SO THIS WAS THE FIRST ISSUE;)
WELL, I HOPE YOU LIKE THE MAG. I ALSO HOPE IT
WILL DEVELOP AND MORE PEOPLE WILL WRITE ARTICLES.:) MANY THANX FOR TEXTS YOU GUYS SENT ME
UNTIL NOW. MANY THANX TO GUYS WHO "SUBSCRIBED"
THE MAGAZINE (WELL, IT IS FOR FREE ACTUALLY).
;) SEE YA NEXT TIME THEN!!

ZX-81 IS LIKE THE TARDIS: MAYBE IT IS SMALL ON THE OUTSIDE, BUT ON THE INSIDE - IT'S GREAT!!!!