

00384d58-0

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Chapter 1

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1.1 The CTW RPG System -- Internext Software

```

          CCCCCCCCCCCCCC  CCCCCCCCCCCCCCCCCC  CCCCCC  CCCCCC
    CCCCCCCCCCCCCC  CCCCCCCCCCCCCCCCCC  CCCCCC  CCCCCC
    CCCCCC  CCCCCC  CCCCCC  CCCCCC
    CCCCCC  CCCCCC  CCCCCC  CCCCCC
    CCCCCC  CCCCCC  CCCCCC  CCCC  CCCCCC
    CCCCCC  CCCCCC  CCCCCC  CCCCCC  CCCCCC
CCCCCCCCCCCCCCCCC  CCCCCC  CCCCCCCCCCCCCCCCCC
CCCCCCCCCCCCCCCCC  CCCCCC  CCCCCC  CCCCCC

```

The CTW Role Playing System By Internext Software

```

/
\
    Introduction~~~~~
    | Why Did I Write This?      /
/
    Installation~~~~~
    | Where Do You Put It?      \
\
    Requirements~~~~~
    | What Amy Do You Need?    /
/
    |
\
    Playing~The~Sample~Adventure
    | Where Do I Put The Quarter? /
/
    Making~Your~Own~Masterpiece~
    | Why Are You Staring At Me? \
\
    |
/
    CTW~Command~Index~~~~~
    | How Do I Control The Amy?  \
\
    Acknoweldgements~~~~~
    | Who Gets Their Name In Lights? /
/
    How~To~Contact~~~~~

```

| Why Is Your EMail Address .ca? \
/

1.2 Introduction

Introduction

Almost everyone in the known universe has played some sort of Role Playing Game before. It was either some text-based thing (like Dungeons & Dragons) or something with square-based graphics (like Final Fantasy). Both of these had their advantages...D&D has loads of cool dice, but FF has a nifty 2-button NES controller.

Well, those wacky guys at SquareSoft (did I mention I don't own a single word of this document? That everyone else holds their own trademarks, copyrights, patents, remote controls, etc., and if you have a complaint about it, write me with a non-threatening letter and I'll change it to something like "Well, those wacky guys oven in Japan who write Role Playing Games for video game consoles that have to do with orbs, clocks, and towers...") came out with a really great Role Playing Game known as Chrono Trigger. It blew my socks off! Its my favorite SNES (or, "Console-based computer capable of...") game ever!

So, after finishing the game, I was sitting in front of my computer with the same name as the Spanish word for "girl", thinking of something cool to write. In Amos Professional (Europress doesn't care). And I looked over at my cart of Chrono Trigger. And I said, "I can do that! Well, not as good, but better than anyone else has done on the Amiga!" And I did. And you just downloaded it. Congratulations!

You now own a Game Creation System so flexible, you can do almost anything with it! With the following features at you fingertips:

- * 64 Color EHB Graphics
- * Oversized Gaming Screens
- * Full Menuing System (even accesible by Scripts!)
- * Real-Time Fighting
- * 80+ Command Scripting Language, allowing control of even the smallest aspect of the game
- * 256 Global Variables, plus 64 Local Variables for each script
- * Number Of Simultaneous Scripts Limited By Computer Speed (8 is OK on my 68000, a couple zillion is OK for an '060)
- * 10 Frames Of Animation Possible For Each Character Pose

You will have no problems whatsoever with coming up with great games for distribution. Now, as for great storylines...

1.3 Installation

Installation

Installation is rather simple. It involves two parts: Putting all the files where they belong, and telling the computer where they are.

Putting the files in the proper places is as easy as unharcing the files into a directory on your hard drive. It'll create a drawer for everything, and make a proper heirarchy for the game. Because you're reading this, I'll assume you've done this, and will proceed to step 2.

This one is slightly more complex, but only slightly. You have to make an assign to the directory you created. The name of the directory you want is the one that contains the CTW_Editor and CTW_Engine programs. You'll have to put this command in the file S:User-Startup. Open a Shell and type the following:

```
ed S:User-Startup
```

Now, go to the end of the file and type in the following:

```
assign RPG: <fill in the directory>
```

Now, Save the file and Quit. You'll have to restart your computer to make the changes stick.

1.4 Requirements

Requirements

To run the CTW Programs, all you need is an Amiga with at least 1.5 Meg of Ram. Preferably 1 Meg of Chip and a Meg or two of Fast is best. Any processor will do, but, as usual, the faster the better. Any adventure will run on any processor, but not every adventure will run on every memory configuration. Take this into mind during adventure creation.

A hard drive or something similar (Zip, Jaz, Bernoulli, whatever) is also great. A floppy disk will have a hard time holding all the info, especially the maps.

You'll also need the XPK User Libraries. These you can get off Aminet or a couple hundred other places off the Internet.

1.5 Playing The Sample Adventure

So, you want to try out the really lame sample adventure? OK! Just run the CTW_Engine and you're on your way!

OK, some explanation might be in order. The controls use the joystick and keyboard (and the mouse) to do everything. Here they are:

Joy Left

Walk Left

	Move Battle Selector Clockwise
	Move Rot-Menu Clockwise
Joy Right	Walk Right
	Move Battle Selector Counter-Clock
Joy Up	Move Rot-Menu Counter-Clockwise
	Walk Up
Joy Down	Move Text Menu Pointer Up
	Walk Down
Joy Fire	Move Text Menu Pointer Down
	Touch A Character
Return Key	Select
'Q' Key	Bring Up Player Menu
Mouse	Quit Game
	Load & Save Games

In the Player Menu are the following options:

Items/Equip	-	Equip	-	Weapon	-	(choose item)
				Armor	-	(choose item)
				Gloves	-	(choose item)
				Hat	-	(choose item)
		Use	-			(choose item)
Stats	-	HP/MHP				
		Atk/Def				
		Experience				
		Str/Dex/Int				
		Creds				
Load/Save	-	Load Game				
		Save Game				

These is a Cancel Option in every sub-menu to move back to the previous menu.

And, apart from all this, the usual RPG stuff comes into play: Talk to everyone, fight for Experience, carry plenty of Healing things, get load of money, yadda yadda yadda.

1.6 Making Your Own Masterpiece

The CTW Editor

OK. Time to get to the tough part. Making your adventures. I wrote the Editor for power, to cut down on the number of utilities needed to make an adventure. Before, I needed my old Editor, a text editor, the Amos Sprite Editor, and a couple of custom programs to complete an adventure. Now, all you need is the Editor. OK, you need a paint program too.

Even though its powerful, I haven't made it super user-friendly. I tried as best as I could, but, in order to cram as many buttons onto a screen at once, I had to eliminate some descriptions on some things. So, without further adieu, here is the manual for the Editor.

Screen Layout

```
##TITLE BAR#####
```

```

    The Current Editor
  Tool Will Have Its Information
    In This Window

```

```

    These Buttons Represent The Editor Tools
  !!!!@@@#####$$$$%^^^^&&&&****((( )))!!!!@@@#####$$$
  !!!!@@@#####$$$$%^^^^&&&&****((( )))!!!!@@@#####$$$
    Click On Them To Switch Tools

```

The program also has a menuing system a bit more powerful than Amos' regular old crappy menus. Right-click to bring it up. Left-click to choose options from the menu. Right-clicking again moves back through the menu.

If you want to quit the editor, just hit F10.

Here are the individual tools:

The Button Looks Like...

```

    The Ten Text Editors
      A Text Editor

    The Sprite Editor
      A Painting

    The Level Editor
      A Tree With A Red Arrow Window

    The Picture Compactor
      A Tree With Binary Code

    The Zone Editor
      A City With A Pointer Dragging A Zone

    The Item Editor
      A Sword

    The FrameSet Editor
      A Film

```

1.7 CTW Command Index

This command reserence was ripped right out of the CTW Help File for the Editor, so its not dĚjÁ vŮ...

```

:Label
Set a Label to jump to within a program.

```

```
[ Text Params...
```


Display some text. Parameters are labelled in the text as %1 on

] Text Label

Make a text menu option. Jump to Label if selected.

SET Variable Value

Set The Variable To Value

MATH Value Op Value Variable

MATH Variable Op Value

Perform a mathematical operation. Form one places Result into different Variable, while form two places Result into first Variable.

OP is any of the following operators:

+	Addition
-	Subtraction
*	Multiplication
/	Division
%	Division Remainder

PAUSE Seconds

Pause the script for Seconds

GOTO Label

Goto the Label in the program

ONGOTO Base Offset Labels...

Jump to the Label specified, starting at 1, from the formula Offset-Base.

Example:

ONGOTO 4 6 JUMPNOW JUMPLATER JUMPNEVER

would send the script to the label JUMPNEVER

LABELJUMP Character Label

Jump a Character's script (identified by their position in the CHARZ block, starting at zero) to Label.

WALK Direction Speed

Walk at a given Speed (in pixels) in the following directions:

0	Up
1	Down
2	Left
3	Right

WALKTO X Y Speed There

Walk to a specific point (X,Y) on the map at Speed pixels per step. When you reach it, There is true.

IF Variable Op Value Label

IF Variable Label

The first form uses an Operand to determine trueness, while the second check if Variable is true. In either case, if the result is true, the script jumps to Label. The Operands for form one:

```

>          Greater Than
<          Less Than
=> >=     Greater Than/Equal
<= =<     Less Than/Equal
=          Equal To
<>        Not Equal To

```

WAIT Clicks

Wait for Clicks/50th of a second

RND Variable UpperBound

Put a random number into Variable from 0-UpperBound

TIMER Variable

Put into Variable the number of clicks since powerup

GLOSET GlobalVariable Value

GLOGET GlobalVariable Variable

These commands set and get Global Variables, a set of 256 variables that travel between scripts.

BITSET Variable Bit

BITCLR Variable Bit

BITCHG Variable Bit

These set, clear, or change a bit in a variable. Variables have 32 bits from 0-31.

BITGET Variable Bit Result

Result is true if Bit in Variable is set.

ADDITEM Name

Add the item Name to the player's inventory.

HAVEITEM Name Result

If the player has item Name, Result is true.

TAKEITEM Name Result

If the player has item Name, Result is true and the item is removed from the player's inventory.

ITEMSPEC Name Value Result

Get the specs for an item:

WP	Weapon Power	
AP	Armor Power	
HP	Hit Points Restored	
COST	Item Cost	
TYPE	Type Of Item	
	0	Weapon
	1	Armor
	2	Hat
	3	Gloves
	4	Restores HP
	5+	Custom

KILL

Kill a character and end the script

LOADLEVEL Levelname

Load the level Levelname

ATTACK Group

Cause the Group to attack the player

BUY Item Result

Buy Item for a certain amount of money. If the player has enough money, Result is true and the player gets the item.

SELL Item Result

Try to sell the player's Item. If the player has the item, he sells it for its total price and Result is true.

RATINGSET Rating Value

RATINGGET Rating Value

Get or set a rating from the player:

HP	Hit Points
MHP	Max Hit Points
STR	Strength
DEX	Dexterity
INT	Intelligence
CRED	Credits
EXP	Experience

CHANGEFRAMEBASE FrameSet

Change a character's Frame Set to FrameSet

COORDS Char X Y

Get the coordinates of character Char into X and Y

MOVETO X Y

Move a character to (X,Y)

FRAMEANIM FrameSet

Animate the character with FrameSet, then continue

ITEMREMOVE Which

ITEMISGONE Which Result

ITEMKILL Which

IITEMPUTBACK Which

These commands use a bunch of Global Variables to keep track of individual item scripts. When a player takes an item, ITEMREMOVE it. Then, add to the beginning of the item's script an ITEMISGONE request. If the Result is True, KILL the item. IITEMPUTBACK changes the item's state. ITEMKILL combines ITEMREMOVE and KILL.

MENURESET
MENUADD Short Long
MENUCHOICE Result
These commands let you use circular menus, such as the player's menu.
MENURESET first, then add commands, giving the short (rotated) string,
then
the long (bottom of screen descriptor) string. MENUCHOICE returns the
number
of the item, starting from zero.

TOGGLETOUCH
Change the script's ability to jump to :TOUCH when touched.

KEYDOWN Key Result
Check to see if Key is being pressed. If it is, Result is true.

SOUND File Frequency Voices
Play sound File on disk at Frequency through Voices:

%0123
0 and 2 are Left Channels
1 and 3 are Right Channels

TOGGLEDISPLAY
Toggle display updating on and off.

FADEIN Time
FADEOUT Time
Fade in and out the screen for 15*Time/50 Seconds

LOCKCONTROLS
UNLOCKCONTROLS
Prevent or allow the player to move.

1.8 Acknowledgements

Well, first, I'd like to thank me for being so wonderful. Yes, I know, I deserve it. 8^)

Then, I'd like to thank Sean Deal for taking the time to get it running on the copy of UAE I gave him. The sound still sucks, though.

Then, there was that guy on the Amos Mailing List that tried it out and had no problems with it. If you're out there, tell me!

Then, there's Commodore. Yeah, they screwed up. But they invented the Amiga in the first place, so they can't be all bad.

Now, I'd like to free myself from all legal ownership of anything I said in here. Everything in here is not © John Bintz. Most likely someone else owns it, and, if they do, that's great. But, I'm the one with the power of updates, so don't screw me over and put your name in here. I have the source code, BWAHA!

And, once I get some Beta-Testers for the Editor, they can be in here, too.

GrÁcias!

1.9 How To Contact

How do you find the elusive John Bintz? If he's not at Villa Julie College, or on the Beltway, or at Wards working in the Menswear Department, he's at home. And he'll be checking his mail for the account at:

uv334@freenet.victoria.bc.ca

And, this should work, too:

s-jobicu@mail.vjc.edu

And, even THIS one will work...kinda:

bintzer@pop.erols.com

And, if you want to go to my HORRIBLY OUTDATED WEB PAGES FULL OF BLOOD AND GORE AND CARE BEARS AND CARTOONY DRAWINGS AND SOFTWARE:

<http://www.dragonfire.net/~JohnBintz/home.html>

And, if you want to get on my good side when I make this a product requiring registration, send me money (\$15US will do nicely) to:

John Bintz
1715 Bren-Will Drive
Westminster MD USA 21158-2710

And, if you make a game on CTW, I'd like to see it. Just LhArc it onto some floppies or stick it FTP. Just don't EMail it to me, please?!?!?

1.10 The Ten Text Editors

The Text Editors (there are ten of them!) are set up like this:

```
##Text File Name#####
```

```
Hello there| 1
This is a line or two
In the text editor
```

Buttons

The Title Bar displays the current text file name. Between the title bar and the button bar is the Edit Area. Simply start typing. Special keyboard commands are:

```

Shift-Up      Jump up eight lines
Shift-Down    Jump down eight lines
Ctrl-Down     Insert a line
Ctrl-Up       Delete a line

```

The Menu Structure is:

```

File      -   Save           Save your text file
           -   Save As...    Save your text file under a new name
           -   Load...      Load a text file
           -   Clear         Clear the current editor buffer
Macros    -   Walkloop      Insert a Walkloop Routine
           -   Rotating Menu Insert a Rotating Menu Routine

```

1.11 The Sprite Editor

The Sprite Editor is one of the most complex of the editors...

```
##Edit Sprites#####
```

```

|_____||_____||
|         ||         ||
|         ||_____||
|         || !@#$$%^&*()!@#$$%^
|         || @#$$%^&*()!@#$$%^&
|         || #$$%^&*()!@#$$%^&*
|         || %%%'''''' \ 16   ^
|         || %%%'''''' = 16   43
|         || %%%''''''=' \ ^v<> v
|_____|| %%%'''''' \

```

Bob 43 of 257

Large Box on Left - Zoomed 16x16 edit area
Left-click to draw with Current Color
Right-click to box with Current Color

Rectangle in Middle - Displays current Sprite
Colored bars on borders show 16x16 zoomed area
Right-Click to Copy to Clipboard
Left-Click to Paste

Picture to Right of
Current Sprite - Animated Preview

Colored Boxes below
Current Sprite - 64 color drawing palette
Left-click a color to choose

Large Colored Box
Down and Left of
Palette - Current Color

Large Box with Dot
Next To Current

Color & Slider

Immediately Right - Color Cube Color Selection
 RGB Sliders would be too clumsy in such a small area, so Color Cube was implemented. The box represents all colors from black to yellow, and the slider adds blue to the current color.

Numbers to Right of

Slider - Width (top) and Height (bottom) measurements
 Left-click them to make them higher
 Right-click them to make them lower

Arrows Below Numbers - Move the zoomed area around the sprite

Arrows and Number

Next to Width-Height Gauges - Current Sprite
 Click arrows to move through sprites
 Left-Click number to delete

The menu structure is as follows:

File	-	Save As...	Save Sbobs Sprites
		Load...	Load Sbobs Sprites
		Clear	Clear Sprite Bank
Image	-	Flip Horizontal	
		Flip Vertical	
		Rotate 90 Deg	
		Shift Up	
		Shift Down	
		Shift Left	
		Shift Right	
Animation	-	2/10 Frames	Set Animation Lookahead Frames

1.12 The Level Editor

The Level Editor consists of only a few buttons. In the upper-left hand corner is the shrunken view of the current Map file. On the right hand side is a group of buttons. From top to bottom, these (and the arrows beneath them) do the following:

Current Level File (Level#.Level) in the RPG:Levels Drawer
 Decrease Number to 1 Increase Number to Something Big

Current .mod File in the RPG:Mods Drawer
 Load & Play Module Stop & Unload Module

Current Special Effect (see below)
 Scroll Effects Scroll Effects

Effect Parameters

The special effects you have to choose from (and their parameters) are below:

No Effect

```

Rain          # of drops      Speed
Snow         # of flakes     Speed
Low Blink
Lightning
Dim View
Custom       # of "RPG:Maps/Effect#.spk" File to Overlay

```

1.13 The Picture Compactor

The Picture Compactor uses a combination of Amos Spack routines (a bit better than standard IFF) and the XPK Nuke Library (shrinks it about another 10%) to cram as many onto a drive as possible. The screen layout is very simple; detailed directions are not necessary.

```

Compress Picture - Take an IFF image and shrink it into an SPK/Nuke File
                  Use this image as the current Level Map
Uncompress Picture - Take current SPK/Nuke File and save it as IFF
Load Image - Load an SPK/Nuke File as the current map

```

1.14 The Zone Editor

The Zones Editor lets you put in both screen zones and characters. The screen consists of a large window for the section of the map you're viewing, and horizontal and vertical sliders to move this viewing area. The real action comes from the menu...

```

Zones      -      Add Zone      Adding a screen zone
                                      Move the pointer to the top left
                                      of the zone, then click'n'drag to
                                      the lower right (the screen will
                                      automatically scroll).

                                      Once done zoning the area, the Zone
                                      Info Box pops up. It looks like this:

```

```

|-----|
|  T    L    B    R  |
| 32   45   67   99  |
|-----|
| Level Zone          |
| 5 45 87             |
| Tag Coords From...  |
| Zone Edit Complete  |
|-----|

```

The numbers under the T, L B, and R represent the Top, Left, Bottom, and Right coordinates. Underneath that is the Zone Type, and below that is the parameters for the zone. There are five types, each with their own set of

parameters:

Stop No Parameters
 (prevents movement)
 Slow No Parameters
 (slows movement)
 Labeljump Character LabelJump#
 (sends Character to :ZONELABEL#)
 Level Level# X Y
 (loads Level#.level and puts
 character 0 at X,Y. If no X,Y,
 default is used)
 For grabbing coordinates from
 another map, use Tag Coords...
 and lad in the destination map file.
 Fight Group
 (start fight with Group)

When you're done editing this zone, hit
 OK.

Edit Zone Allows you to choose a zone on the screen
 and pop up the Zone Info Box

Delete Zone Select a zone and click it to delete it

Characters- Add Character Place a character on the map
 Sprite #1 will show up, but you can
 change that. Move it around until
 you find the spot to put it in, then

left-

click it into place. The Character Info
 Box pops up:

```

|-----|
| X      Y | |-----| |
| 235   43 | |         | |
| G      P | |         | |
| 4     12 | |-----| |
| Script.script |
| FrameSet 4   <   > |
| Done Editing |
|-----|
  
```

X and Y are the character's position on
 the map. G and P are the character's
 Enemy Group and Power. When ATTACK is
 called or you walk onto a FIGHT zone,
 the Group# referenced will cause all
 the character's with the same Group#
 to fight you.

Script.script is where you put the name
 of a character's script, in reference to
 the home directory RPG:. The box in the
 upper right is the FrameSetBase anim

of the current character. To properly set a character, set the FrameSetBase to the first one in the group (walking toward you). This is explained better in the FrameSet Editor.

Hit "Done Editing" when you're done.

Edit Character Scroll about the screen and pick the character you want to edit. Click on it and the Character Info box pops up.

Delete Character

Delete the character from the level.

1.15 The Item Editor

The Items Editor edits the Items.Data file in the RPG: drawer. These are all the items the player can get, have, sell, or buy. The layout of the editor, from top to bottom, is as follows...

Name Of Object (no spaces, please!)

Weapon Power	(enter a number)	(used if Weapon)
Armor Power	(ditto)	(used if Armor, Gloves, or Hat)
HP Restored	(same here)	(used if HP Restorer)
Item Cost	(# goes here)	(used for BUY & SELL commands)
Item Type	Weapon/Armor/Gloves/Hat/HP Restorer/Custom (move through list)	

(backward through items) (forward through items)

For example, if you're making a Sword of Infinite Doom with a power of 300, but it'll cost 20000, you'd set the Name to "Sword_Of_Infinite_Doom" (or something like that, without quotes), the Weapon Power to 300, and the Cost to 20000. Then, you'd set the Type to Weapon.

Now, you want the Armor of Cheese. It'll have a defensive power of 4, and cost 35. Set the name to "Armor_Of_Cheese", Armor Power to 4, and Cost to 35. But, the game'll think its a weapon, so set the type to Armor.

You can make things like access cards, money bags, watches, all sorts of things. Its quite flexible. Really.

1.16 The FrameSet Editor

The FrameSet Editor is the place where you set up the animations for the characters. You can have up to ten frames per animation, and these frames come from the Sprites you drew in the Sprite Editor.

When you set up a character, you have to specify a FrameSetBase. This Base uses certain offsets to control which animation is displayed during certain

which does nothing; ConstantAnim, which constantly animates a FrameSet, not just when it moves; HorizFlip and VertFlip, which flip Sprites around to reuse images and save memory.

Below THIS is the Sprite Picture Selector. Use the arrows on the left & right to choose a picture to put into the frames.

Right of this is the FrameSet selector. This lets you set the FrameSet this animation represents.

Above, I chose 4090 for a FrameSet, and with good reason. FrameSet 4090 (the first picture, at least) represents the on-screen pointer. This always points right. You'll definitely need one of these, or it'll be hard to select stuff.

The menu Heirarchy is a simple one:

File	-	Save Frames.Data...	Save the FrameSet file CTW wants it called Frames.Data, in the RPG: drawer
		Load Frames.Data...	Load a FrameSet file
		Clear	Clear All Memory Areas

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