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## A link to the past map size

Mon 10 December 2012 Posted by Al Sweigart in pygame I've created Python & Pygame script that lets you walk around the overworld map of the original Legend of Zelda game on the 8-bit Nintendo. There are no monsters or levels or items; it is simply a walking tour. The Link walking sprite animation is implemented by my Pyanim module. More importantly, this program does provide the raw map data the entire world map (something I haven't been able to find on the web.) Getting this from the Zelda ROM is actually a pain due to the tricks used to store the map info. The game doesn't store individual tiles and their XY location, but rather have one of three color schemes for the border and a color scheme for the center tiles. Even then, the game only stores columns of tiles, and then each room references which columns it uses. (You can notice the same columns being used in different rooms, even though their color scheme may change.) These tricks aren't really needed with today's computers for a game as simple as Zelda, so I've compiled the tile map data for each individual location on the map. Here's the world map data file (it is also included in the main download below.) Download the Zelda Walking Tour program. View raw tile map data. (Just unzip all the files and run the nesZeldaWalkingTour.py file with Python. Runs with both Python 2 and Python 3. Requires the Pygame module to be installed.) You can also download the code from the GitHub project. Blocking is not implemented, which means you can freely walk through walls. The tiles are stored in overworldtiles.png: To find which tiles correspond to the hex numbers in the world map data file, use this key (the numbers start at 0 and simply increasing going to the right). And just for grins, I have a pixel-perfect single image of the entire world map, without enemies or anything else polluting it. The colors may be a bit off from the actual game, but they are consistent: If you'd like to work on a similar project to this, here's a good page I've found that I wish I had seen before I started: More GPU Tile map demos (Zelda) Some general stats about the NES Zelda map data: The entire overworld is 4096 x 1344 pixels, 16 x 8 rooms, and 256 x 88 tiles in size. Each room (a single screen) is 16 x 11 tiles in size (the bottom row only shows the top half of the tile). It is 256 x 176 pixels in size (if you count the bottom half of the bottom row). Each tile, including Link himself, is 16 x 16 pixels in size. There are seven colors used on the overworld map (though the RGB values may not be perfect): (32, 56, 236) blue (252, 252, 252) white (200, 76, 12) brown (0, 168, 0) green (116, 116, 116) gray (252, 216, 168) tan (0, 0, 0) black Learn to program for free with my books for beginners: Sign up for my "Automate the Boring Stuff with Python" online course with this discount link. 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If you have any questions, please post them on github.com/phoboslab/impact I've been wondering how well an over-world nearly the size of that in LOZ: ALTP, would work as one large level. Is this even possible without bringing the game to a crawl? Sorry if this is the wrong area for asking. I just see it as being easier to design the entire over-world in one large level, as opposed to smaller separate levels and linking them together. I built a game with a huge level and it did not slow down that much. If the tiles are off the screen they aren't drawn. But I think the logic for the entities' update function is processed, so if you have all the possible entities in your game running around, it could be slow. Also, if you have any bugs in your code, it's hard to debug. For example, I had a bird entity that in rare situations could hit a tile that caused the whole game to freeze. It was hard to track down which entity was causing which problems. The solution was to build a small level, a compressed world to test all the situations and entities. I am currently testing all entities in all situations possible in that small world now. When everything works, I'll just have the huge map loaded for the real game. A Link to the past was 24 screens wide and 16 screens tall. I have a platformer that was 20 screens wide and 8 tall on my iPhone5. It played very smooth, but it didn't have as many entities as LOZ would across the whole over world. The level builder actually was the biggest issue I had, as it would lock up a lot at times. The way LOZ plays, it plays like each screen is a separate level anyway, I could imagine that having all those enemies would be a bigger problem than the actual map size once it has loaded up. Hmm, thanks for the replies that helps me out a bit. I think I'm going to try splitting my over-world into four equal levels and see how it handles the entities that way then. Stahlman, it would be nice to hear how your test goes. Page 1 of 1 « first « previous next » last » Google maps online provide a way to see your location on the map and you can use it for fun, lessons about map reading, to locate your parked car or to share your location with others. Either allow your device to use geolocation or type addresses into the search box.Google Map Search by Location ToolThe first time you visit the Google maps page, your device should ask permission to use your location. If you accept this request, or if your device is set to accept it automatically, your location comes up on the map marked with a pin. When you see your location, you can zoom in for a closer view or zoom out in order to examine other places on the map.See Satellite Views of Your LocationWhen you search for 'my location' in Google maps, you can switch from the map view to the satellite view to see your home or anywhere you are from the sky. If you want to see a textured version, you can click the 3D icon and tilt the map slightly to show raised and lowered aspects of the satellite view.Street View on Google MapsGoogle maps has a street-view function that lets you see your location if you're on a main road or street. The views are not offered in real time, but you can check out a 360-degree panoramic view from the day the images were recorded. The screen has a small notation to inform you of when the footage was taken.Determining Your Latitude and LongitudeWhen your location is up on the screen, use the mouse to pin your location. Right click the mouse to bring up options. The options include getting directions to get to your chosen location, directions to get to another place from the location you've pinned and the What's Here option. If you click on what's Here from the list of options, a popup box tells you the general name of the location and the latitude and longitude are shown below.Using Google Maps to Find Your Parked CarThe "Save your parking" option in Google maps makes it easy to find your car if you can't remember where you left it. It's also handy if you share a car with someone else and need to let them know where it is, because you can share your pins, according to CNBC. To use this function in Google maps, open Google maps on your smartphone screen, then click the blue dot on the map that indicates your current location. When the option to save your parking comes up, click it to save it. If you want to add any notes, such as landmarks or a photo of the spot, you have that option by clicking the blue bar at the top of the screen that's labeled Parking location. The icon needed to share your parking location is also featured under Parking location. MORE FROM QUESTIONSANSWERED.NET



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