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render(self, surf, offset=(0, 0)):









..... This module handles the creation, management, and rendering of tilemaps for the game. It provides functionalitie for loading and saving tilemaps from files, accessing and modifying the tiles within the map, and rendering the tilemap to the screen. It also includes utilities for tile-based collision detection and automatic tile variant selection based on neighboring tiles to create more visually cohesive maps. import json import pygame # Offsets for determining tile neighbors. # Set of tile types that are considered solid for collision purposes. tiles set = {'grass', 'stone', 'sky'} class Tilemap: Manages a grid of tiles for the game world, including loading, saving, rendering, and collision detection. Attributes: game (Game): The main game object, providing access to global resources and settings. tile_size (int): The size of each tile in pixels. tilemap (dict): A dictionary representing the grid of tiles, with keys as string coordinates "x;y". offgrid tiles (list): A list of tiles that do not align to the grid, used for decorative elements. _init__(self, game, tile_size=16): Initializes a new Tilemap instance. Parameters: game (Game): The main game object. tile_size (int, optional): The size of each tile in pixels. Defaults to 16. self.game = game self.tile_size = tile_size self.tilemap = {} self.offgrid_tiles = [] def extract(self, id pairs, keep=False): Extracts tiles from the map matching specific id and variant pairs. Parameters: id_pairs (list of tuple): A list of tuples (type, variant) to match tiles against. keep (bool, optional): Whether to keep the matched tiles in the map. Defaults to False. Returns: list: A list of matched tiles with their properties. # Extrahuje dlaždice z mapy na základě zadaných kombinací identifikátorů matches = [] # Inicializace prázdného seznamu pro shody # Iterace přes dlaždice mimo mřížku for tile in self.offgrid tiles.copy(): if (tile['type'], tile['variant']) in id_pairs: matches.append(tile.copy()) if not keep: self.offgrid_tiles.remove(tile) # Iterace přes dlaždice v mřížce for loc in list(self.tilemap.keys()): tile = self.tilemap[loc] if (tile['type'], tile['variant']) in id pairs: matches.append(tile.copy()) matches[-1]['pos'] = matches[-1]['pos'].copy() matches[-1]['pos'][0] *= self.tile size matches[-1]['pos'][1] *= self.tile_size if not keep: del self.tilemap[loc]

return matches # Vrátí nalezené shody

def tiles around(self, pos):

Returns:

list: A list of pygame.Rect objects for solid tiles around the specified position.

pos (tuple): The position to check around, in pixels.

```
# Vrací seznam obdélníků pro kolize kolem zadané pozice
   rects = [] # Inicializace seznamu obdélníků
   for tile in self.tiles around(pos):
       if tile['type'] in tiles set:
           rects.append(pygame.Rect(tile['pos'][0] * self.tile size, tile['pos'][1] * self.tile size, self.
   return rects # Vrátí seznam obdélníků
def render(self, surf, offset=(0, 0)):
   Renders the tilemap onto a given surface.
       surf (pygame.Surface): The surface to render the tilemap on.
                                          o apply to the tile positions, used for camera movement.
       offset (tuple): An (x, y) offset t
   # Vykreslí dlaždice na zadaný povrch s dan
   # Vykreslení dlaždic mimo mřížku na herní plochu s použitím jejich pozic a variant
   for tile in self.offgrid_tiles:
       surf.blit(self.game.assets[tile['type']][tile['variant']], (tile['pos'][0] - offset[0], tile['pos'][
   # Procházení oblasti herní plochy, která je viditelná na obrazovce
   for x in range(offset[0] // self.tile_size, (offset[0] + surf.get_width()) // self.tile_size + 1):
           y in range(offset[1] // self.tile_size, (offset[1] + surf.get_height()) // self.tile_size + 1):
           # Určení lokace dlaždice na základě souřadnic x a y
           loc = str(x) + ';' + str(y)
            # Kontrola, zda se dlaždice nachází v self.tilemap na dané lokaci
           if loc in self.tilemap:
                # Načtení dlaždice z self.tilemap
               tile = self.tilemap[loc]
                # Vykreslení dlaždice na herní plochu na příslušnou pozici podle offsetu
               surf.blit(self.game.assets[tile['type']][tile['variant']], (tile['pos'][0] * self.tile size
```