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def RunDownload(segments_filename , json_file_path):
# Main downloading function
    Segments <- PrepSegments(json_file_path):
        # parses JSON file
        Segments <- Segment(Start , End, Score , Id)
        return Segments

FilenameMap <- GenListOfUrls(Segments):
    for Segment in Segments:
        split long Segment into fractions
        for [point_start , point_end] in fractions:
            urls , filenames <- betweenPoints(point_start , point_end)
            # generates three images from standing at point_start
            # and three images from standing at point_end
            return urls , filenames
    # build list of urls and filenames to download

DownloadUrlFilenameMap(FilenameMap , Segments):
    for [url , filename , segment_id , nth_image] in FilenameMap:
        loaded , error <- url_retrieve_with_retry(url , filename)
        Segments[segment_id].HasLoadedImages[nth_image] = loaded
        Segments[segment_id].ErrorMessage[nth_image] = error

SaveDataFile(Segments , segments_filename) # save pickled array

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