

Frame

- __right_knee_angle: float
- __left_knee_angle: float
- __hip_position: np.ndarray
- __pre_processed: np.ndarray
- __foot_positions: tuple
- __right_arm_angle: float
- __rleft_arm_angle: float
- _data: np.ndarray
- + dims: tuple

- + __init__(frame: np.ndarray=None)
- + update(frame: np.ndarray)
- + clear()
- __calc_knee_angle(key_points: tuple) -> float
- + annotate(pose_landmarks, as_overlay=True)
- + pre_process(filter: Filter=None, inplace=False)
- + to_mediapipe_image() -> mp.Image
- + to_rgb() -> np.ndarray
- + to_grayscale() -> np.ndarray
- + sharp_motion(prev_frame: np.ndarray)
- + bilateral_filter(output_result=False)
- + apply_filter(kernel=[], inplace=False) -> np.ndarray
- + stabilize(prev_frame: np.ndarray)
- + data() -> np.ndarray
- + knee_angles() -> np.ndarray
- + foot_pos() -> np.ndarray
- + centroid_height() -> float
- + hip_pos() -> np.ndarray