Game

-static instance: Game -renderer: Renderer

-ui: Ui

-world: World -camera: Camera

-constructor(): Game

+static getInstance(): Game

-setup(): void +update(): void +draw(): void +keyPressed(): void

World

-static instance: World -forces: p5.Vector -cannon: Cannon

-constructor(): World +static getInstance(): World

-setup(): void +update(): void +draw(): void +keyPressed(): void

Renderer

-static instance: Renderer

-constructor(): Renderer

+static getInstance(): Renderer

-setup(): void +refresh(): void

Ui

-static instance: Ui -slider: Array<any>

-constructor(): Ui

+static getInstance(): Ui

+setup(): void

+getSliders(sliderType?: SliderType):

A_Entity

-static entities: Array<A_Entity> #position: p5.Vector #dimension: p5.Vector #azimuth: number #inclination: number

+constructor(position: p5.Vector, dimension: p5.Vector, azimuth?: number, inclination?: number): A Entity

+static collection: Array<A Entity>

+setInclination(value: number): void

+draw(): void

+getPosition(): p5.Vector +getDimension(): p5.Vector +setAzimuth(value: number): void

+getAzimuth(): number +getInclination(): number

Cannon

-sliderPointers: Array<any>

+constructor(position: p5.Vector, dimension: p5. Vector, sliders: Array<any>): Cannon

+draw(): void -fire(): void +keyPressed(): void

Camera

-position: p5.Vector -velocity: number -azimuth: number -inclination: number

+constructor(position? p5.Vector):

Camera

+update(): void

A ColliderEntity

-static colliders: Array<A ColliderEntity>

#mass: number

+constructor(position: p5.Vector, dimension: p5.Vector, azimuth?: number, inclination?: number, mass?: number): A ColliderEntity +static collection(): Array<A_ColliderEntity>

A_UpdatableEntity

-static updatables: Array<A_ColliderEntity> #velocity: p5.Vector

+constructor(position: p5.Vector, dimension: p5.Vector, azimuth?: number, inclination?: number, mass?: number): A_UpdatableEntity

+update(extForces?: p5.Vector) void +static collection(): Array<A_UpdatableEntity>

CannonBall

-elapsedTime: number

-static guid: number

-guid: number

+constructor(position: p5.Vector, dimension: p5. Vector, azimuth: number, inclination: number, power: number, mass?: number): CannonBall

+update(extForces: p5.Vector): void

+draw(): void

+reverseVelocity(axis?: Axis): void

Wall

+constructor(position: p5.Vector, dimension: p5. Vector, azimuth?: number, inclination?: number, mass?: number): Wall

+draw(): void