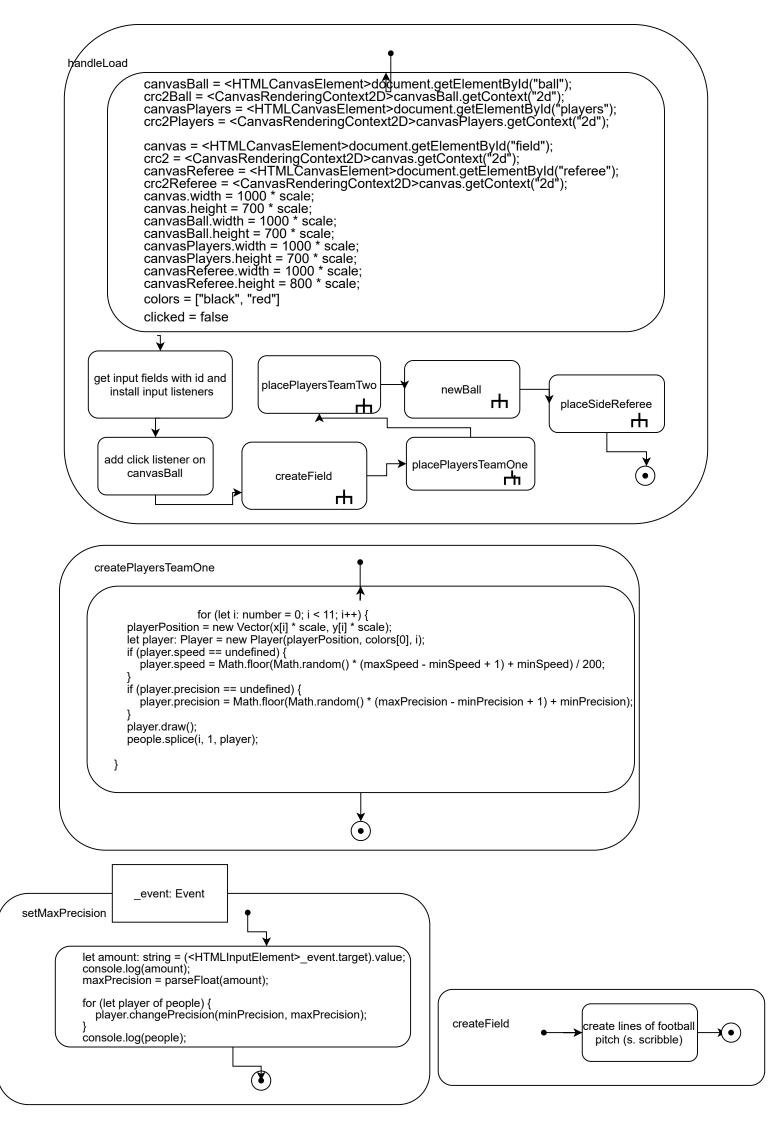
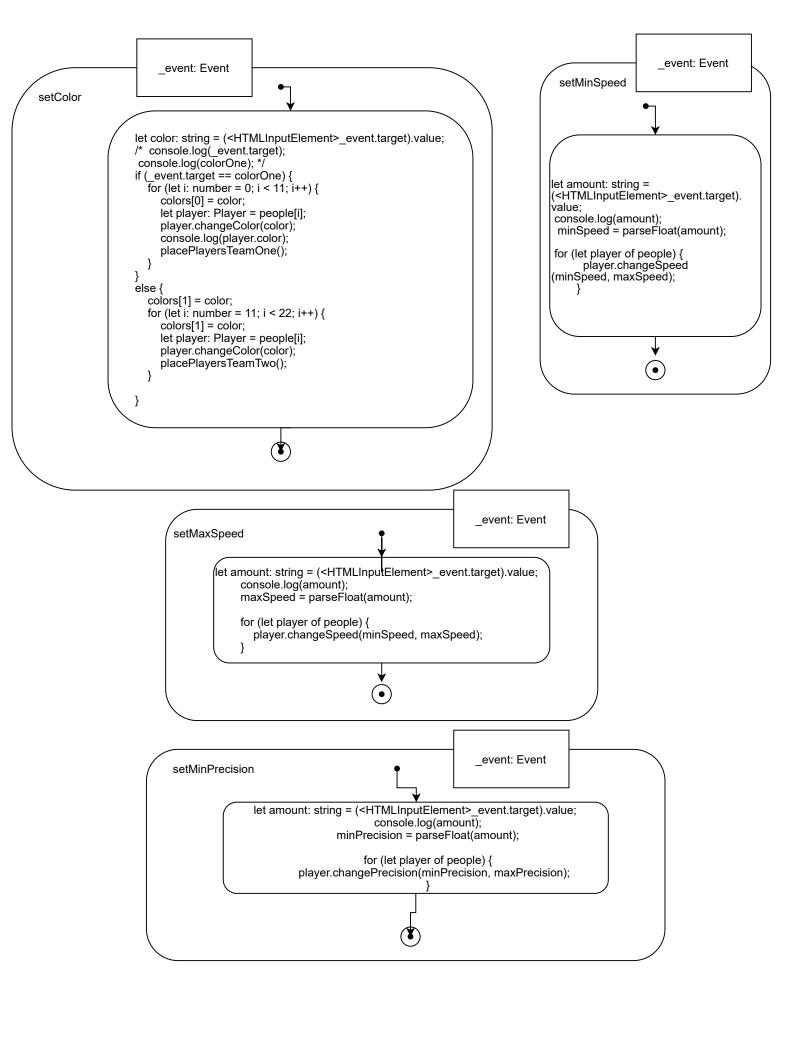
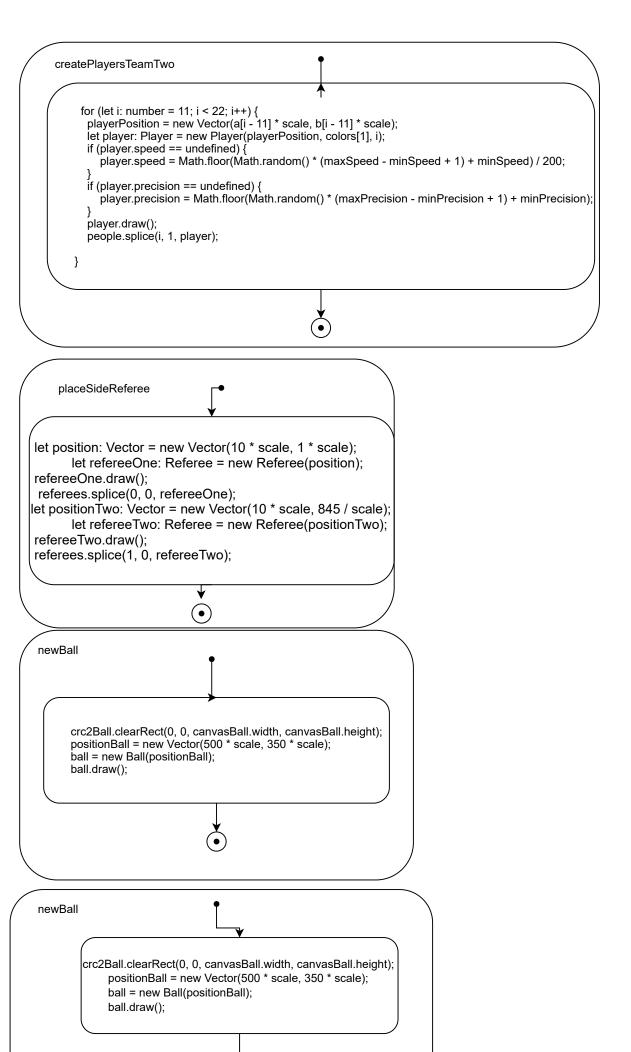
Football: Activity Diagramm click load export let canvas: HTMLCanvasElement export let crc2: CanvasRenderingContext2D handleClick handleLoad export let scale: number = window.devicePixelRatio export let canvasBall: HTMLCanvasElement export let canvasPlayers: HTMLCanvasElement export let crc2Players: CanvasRenderingContext2D export let canvasReferee: HTMLCanvasElement input input export let crc2Referee: CanvasRenderingContext2D let colorOne: HTMLInputElement setMinSpeed setColor +let colorTwo: HTMLInputElement let minSpeedInput: HTMLInputElement let maxSpeedInput: HTMLInputElement let minPrecisionInput: HTMLInputElement input input let maxPrecisionInput: HTMLInputElement let form: HTMLDivElement setMaxSpeed setMinPrecision export let minSpeed: number = 1 export let maxSpeed: number = 5 let minPrecision: number = 1 let maxPrecision: number = 5 let scoreTeamOne: HTMLElement input let scoreTeamTwo: HTMLElement setMaxPrecision let currentPlayer: HTMLElement let playerNumber: HTMLElement let playerSpeed: HTMLElement let playerPrecision: HTMLElement let x: number[] = [10, 150, 150, 150, 150, 425, 425, 425, 725, 750, 725] let y: number[] = [350, 125, 275, 425, 575, 175, 350, 525, 125, 350, 575] let a: number[] = [990, 850, 850, 850, 850, 575, 575, 575, 275, 250, 275] let b: number[] = [350, 575, 425, 275, 125, 525, 350, 175, 575, 350, 125] export let people: Player[] = [] export let colors: string[] export let referees:Referee[] = [] export let clickX: number export let clickY: number export let ball: Ball export let positionBall: Vector install load listener on export let playerPosition: Vector window export let i: number = 0 export let j: number = 6 let scores: number[] = [0, 0] let ballMovement: number let playerMovement: number let clicked: boolean





```
let minX: number = clickX - 1;
let maxX: number = clickX + 1;
let minY: number = clickY - 1;
let maxY: number = clickY + 1;
crc2Ball.clearRect(0, 0, canvasBall.width, canvasBall.height);

ball.move(1 / 50);
ball.draw();
/* console.log(positionBall, clickX, clickY); */
if (minX <= positionBall.x && positionBall.x <= maxX
&& minY <= positionBall.y && positionBall.y <= maxY) {
    clearInterval(ballMovement);
    setScore();
```



```
_event: MouseEvent
handleClick
      let rectangleB: DOMRect = canvasBall.getBoundingClientRect();
              clickX = Math.floor(_event.clientX - rectangleB.left);
              clickY = Math.floor(_event.clientY - rectangleB.top);
              console.log(clickX, clickY);
              if (clicked == true) {
                clicked = false
              for (let player of people) {
                player.checkClick(clickX, clickY);
                if (player.clicked == true) {
                   playerNumber.innerHTML = "Player " + player.playerNumber;
                   playerSpeed.innerHTML = "Speed " + player.speed;
                   playerPrecision.innerHTML = "Precision " + player.precision;
                   player.clicked = false;
                   clicked = true;
              if (clicked == false) {
                playerNumber.innerHTML = "";
                playerSpeed.innerHTML = "";
                playerPrecision.innerHTML = "";
                ballMovement = setInterval(moveBall, 20);
                playerMovement = setInterval(movePlayer, 20);
```

crc2Players.clearRect(0, 0, canvasPlayers.width, canvasPlayers.height);
for (let player of people) {
 /\* console.log(player.speed); \*/
 player.checkPosition();
 if (player.near == true) {
 player.move();
 player.draw();
 player.checkCollision();

currentPlayer.innerHTML = "Player" + player.playerNumber; playerMovement = setInterval(movePlayerBack, 20);

if (player.atBall == true) {

clearInterval(playerMovement);
clearInterval(ballMovement);

```
movePlayerBack
```

```
crc2Players.clearRect(0, 0, canvasPlayers.width, canvasPlayers.height);
for (let player of people) {
    /* console.log(player.speed); */
    if (player.atBall == false) {
        console.log("false");
        player.moveToStart();
        player.draw();
    else if (player.atBall == true) {
            player.draw();
    }
    let currentPosition: Vector = new Vector(Math.floor(player.position.x), Math.floor(player.position.y));

if (player.startPosition.x - 10 <= currentPosition.x && currentPosition.x <= player.startPosition.x + 10 && player.startPosition.y <= player.startPosition.y + 10) {
            player.atStartposition = true;
        }
        let k: number = 0;
        for (let player of people) {
            if (player.atStartposition == true) {
                k += 1;
        }
        lf (k == 21) {
               clearInterval(playerMovement);
            player.atBall = false;
            player.near = false;
```