```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8"/>
<meta name="viewport" content="width=device-width,initial-scale=1,viewport-fit=cover"/>
<title>Rematch/Retro Goal — Mobile + Desktop (Demo)</title>
<style>
 :root{
  --bg1:#071028; --bg2:#082233; --accent:#00d1ff; --gold:#ffd166;
  --panel:rgba(255,255,255,0.04); --muted:rgba(255,255,255,0.65);
  --btn-gradient:linear-gradient(180deg,#00b8ff,#0077c2);
 }
 html,body{height:100%;margin:0;font-family:Inter,system-ui,-apple-system,Segoe
UI,Roboto,Arial;}
body{background:linear-gradient(180deg,var(--bg1),var(--bg2));color:#fff;display:flex;flex-directio
n:column;align-items:center;padding:12px;gap:10px}
 .wrap{width:100%;max-width:980px}
 header{display:flex;justify-content:space-between;align-items:center}
 h1{font-size:18px;margin:0;color:var(--accent)}
 .sub{font-size:12px;color:var(--muted)}
 #game{background:
linear-gradient(180deg,#05202a,#0b262e);border-radius:14px;padding:10px;box-shadow:0
10px 30px rgba(0,0,0,.6)}
#field{background:linear-gradient(180deg,#0b6b3e,#0b5a36);border-radius:10px;overflow:hidde
n;touch-action:none}
 canvas{display:block;width:100%;height:auto;border-radius:8px}
 .hud{display:flex;justify-content:space-between;align-items:center;padding:8px
6px;font-size:13px;gap:10px}
.panel{background:var(--panel);padding:8px;border-radius:10px;display:flex;gap:8px;align-items
:center}
 .score{font-weight:800;color:var(--gold);font-size:18px}
 .mini{font-size:12px;color:var(--muted)}
 .controls{display:flex;gap:8px;justify-content:center;padding:10px;flex-wrap:wrap}
 .btn{padding:12px
16px;border-radius:12px;border:none;background:var(--btn-gradient);color:#fff;font-weight:700;b
ox-shadow:0 6px 20px rgba(0,120,200,.14)}
 .btn.secondary{background:rgba(255,255,255,0.06)}
.meter{height:8px;background:rgba(255,255,255,0.06);border-radius:6px;overflow:hidden;width:
120px}
 .meter > i{display:block;height:100%;background:linear-gradient(90deg,#ffd166,#ff6b6b)}
```

```
.footer{font-size:12px;color:var(--muted);text-align:center;padding:6px}
 .kbdHelp{font-size:12px;color:var(--muted);margin-top:6px}
 @media(min-width:900px){body{padding:28px}}
</style>
</head>
<body>
<div class="wrap">
 <header>
  <div>
   <h1>Arcade Soccer — Mobile + Desktop Demo</h1>
   <div class="sub">Touch controls + keyboard (WASD / arrows). Short 60s matches.</div>
  </div>
  <div class="panel">
   <div style="text-align:right">
     <div class="mini">Time</div>
     <div class="score" id="time">60</div>
   </div>
   <div style="width:14px"></div>
   <div style="text-align:right">
     <div class="mini">Score</div>
     <div class="score"><span id="scoreYou">0</span> — <span</pre>
id="scoreOpp">0</span></div>
   </div>
  </div>
 </header>
 <div id="game">
  <div id="field" style="width:100%;max-width:900px">
   <canvas id="c" width="720" height="940"></canvas>
  </div>
  <div
style="padding:10px;display:flex;justify-content:space-between;align-items:center;gap:8px;flex-
wrap:wrap">
   <div class="panel">
     <div style="margin-right:8px">
      <div class="mini">Shot Power</div>
      <div class="meter"><i id="powerBar" style="width:30%"></i></div>
     </div>
     <div style="margin-left:6px">
      <div class="mini">Mode</div>
      <div id="mode" style="font-weight:700;color:var(--accent)">Control</div>
     </div>
   </div>
```

```
<div style="display:flex;gap:8px">
     <button class="btn secondary" id="restart">Restart/button>
     <button class="btn" id="auto">Auto AI/button>
   </div>
  </div>
  <div class="controls" style="justify-content:space-between">
   <div style="display:flex;gap:8px">
     <button class="btn secondary" id="passBtn">PASS (P)</button>
     <button class="btn" id="shootBtn">SHOOT (Space)/button>
   </div>
   <div style="text-align:right" class="kbdHelp">
     <div>Keyboard: WASD / ↑↓ ← → to move — R restart</div>
   </div>
  </div>
 </div>
 <div class="footer">Save as <code>index.html</code>. Upload to GitHub Pages or Netlify for
a link.</div>
</div>
<script>
/* Arcade Soccer — Mobile + Desktop demo
 - Touch: drag to dribble, tap to pass, swipe to shoot
 - Desktop: WASD/arrows to move, P to pass, Space to shoot
 - 60s match, simple AI, single file
*/
(() => \{
 // Canvas & world setup
 const canvas = document.getElementById('c');
 const ctx = canvas.getContext('2d');
 const W = canvas.width, H = canvas.height;
 const PW = 100, PH = 140; // virtual pitch coordinates
 function vtx(x){ return (x / PW) * (W - 40) + 20; }
 function vty(y){ return (y / PH) * (H - 40) + 20; }
 function screenToWorldXY(sx, sy){
  return {
   x: ((sx - 20) / (W - 40)) * PW,
   y: ((sy - 20) / (H - 40)) * PH
  };
 }
```

```
// State
 const state = {
  player: {x:50, y:110, vx:0, vy:0, speed:1.9, radius:3.8, hasBall:true},
  opponent: {x:50, y:30, vx:0, vy:0, speed:1.6, radius:3.8, hasBall:false},
  teammates: [], // optional for 3v3 later
  ball: {x:50, y:110, vx:0, vy:0},
  scoreYou:0, scoreOpp:0,
  timeLeft:60.
  running:true, autoAl:false,
  power:30,
  mode: 'control',
  lastUpdate: performance.now()
 };
 // UI refs
 const timeEl = document.getElementById('time');
 const scoreYouEl = document.getElementById('scoreYou');
 const scoreOppEl = document.getElementById('scoreOpp');
 const powerBar = document.getElementById('powerBar');
 const modeEl = document.getElementById('mode');
 const restartBtn = document.getElementById('restart');
 const autoBtn = document.getElementById('auto');
 const passBtn = document.getElementById('passBtn');
 const shootBtn = document.getElementById('shootBtn');
 // Utilities
 function clamp(v,a,b){ return Math.max(a,Math.min(b,v)); }
 function dist(a,b){ return Math.hypot(a.x-b.x, a.y-b.y); }
 // Reset positions
 function resetRound() {
  state.player.x = 50; state.player.y = PH - 20; state.player.vx = 0; state.player.vy = 0;
state.player.hasBall = true;
  state.opponent.x = 50; state.opponent.y = 30; state.opponent.y = 0; state.opponent.y = 0;
state.opponent.hasBall = false;
  state.ball.x = state.player.x; state.ball.y = state.player.y; state.ball.vx = 0; state.ball.vy = 0;
 resetRound();
 // Input handling (pointer for mobile + mouse)
 let pointer = {down:false, x:0, y:0, startX:0, startY:0, startT:0, dragging:false};
 canvas.addEventListener('pointerdown', e => {
```

```
const rect = canvas.getBoundingClientRect();
 pointer.down = true;
 pointer.x = e.clientX - rect.left; pointer.y = e.clientY - rect.top;
 pointer.startX = pointer.x; pointer.startY = pointer.y; pointer.startT = Date.now();
 // if pointer near player and player has ball -> start dribble
 const w = screenToWorldXY(pointer.x, pointer.y);
 if(dist(w, state.player) < 8 && state.player.hasBall){
  pointer.dragging = true;
  state.mode = 'dribble';
  modeEl.textContent = 'Dribble';
});
canvas.addEventListener('pointermove', e => {
 if(!pointer.down) return;
 const rect = canvas.getBoundingClientRect();
 pointer.x = e.clientX - rect.left; pointer.y = e.clientY - rect.top;
});
canvas.addEventListener('pointerup', e => {
 pointer.down = false;
 const rect = canvas.getBoundingClientRect();
 const upx = e.clientX - rect.left, upy = e.clientY - rect.top;
 const dx = upx - pointer.startX, dy = upy - pointer.startY;
 const dt = Date.now() - pointer.startT;
 const swipeDist = Math.hypot(dx,dy);
 const worldUp = screenToWorldXY(upx, upy);
 if(swipeDist > 30 && dt < 500 && state.player.hasBall){
  // shoot toward swipe direction: swipe angle
  const ang = Math.atan2(dy, dx);
  shootBall(ang, clamp(state.power + swipeDist/3, 10, 140)/25);
 } else {
  if(state.player.hasBall){
    // tap to pass/kick toward clicked point
    kickBallTo(worldUp.x, worldUp.y, 0.9 + state.power/240);
  } else {
    // if not in possession, move player toward clicked point
    // convert world coords to player velocity for a short dash
    const tx = worldUp.x, ty = worldUp.y;
    const dxw = tx - state.player.x, dyw = ty - state.player.y;
    state.player.vx += dxw * 0.03;
    state.player.vy += dyw * 0.03;
  }
```

```
}
 pointer.dragging = false;
 state.mode = 'control';
 modeEl.textContent = 'Control';
});
// Keyboard controls
const keys = {};
window.addEventListener('keydown', e => {
 keys[e.key.toLowerCase()] = true;
 // quick action keys
 if(e.key === ' '){ // space -> shoot
  e.preventDefault();
  if(state.player.hasBall) {
    const ang = Math.atan2(- (state.player.y), (50 - state.player.x)); // toward top
    shootBall(ang, 1.3 + state.power/80);
 } else if(e.key.toLowerCase() === 'p'){
   if(state.player.hasBall){
    // pass to forward location
    const tx = clamp(state.player.x + (Math.random()-0.5)*14, 8, PW-8);
    const ty = state.player.y - 16;
    kickBallTo(tx, ty, 0.95 + state.power/220);
 } else if(e.key.toLowerCase() === 'r'){
  fullReset();
 }
});
window.addEventListener('keyup', e => { keys[e.key.toLowerCase()] = false; });
// UI buttons
passBtn.addEventListener('click', ()=>{
 if(state.player.hasBall){
  const tx = clamp(state.player.x + (Math.random()-0.5)*14, 8, PW-8);
  const ty = state.player.y - 16;
  kickBallTo(tx, ty, 0.95 + state.power/220);
 }
});
shootBtn.addEventListener('click', ()=>{
 if(state.player.hasBall){
  const ang = Math.atan2(- (state.player.y), (50 - state.player.x));
  shootBall(ang, 1.3 + state.power/80);
 }
});
```

```
restartBtn.addEventListener('click', fullReset);
 autoBtn.addEventListener('click', ()=>{
  state.autoAI = !state.autoAI; autoBtn.textContent = state.autoAI ? 'Auto AI: ON' : 'Auto AI';
});
 // Ball & action functions
 function kickBallTo(tx, ty, force){
  const dx = tx - state.ball.x, dy = ty - state.ball.y;
  const d = Math.hypot(dx,dy) || 1;
  state.ball.vx = (dx/d) * force;
  state.ball.vy = (dy/d) * force;
  state.player.hasBall = false;
  state.opponent.hasBall = false;
 }
 function shootBall(angle, power){
  state.ball.vx = Math.cos(angle) * power * 1.8;
  state.ball.vy = Math.sin(angle) * power * 1.8;
  state.player.hasBall = false;
  state.opponent.hasBall = false;
 }
 // AI
 function updateAI(dt){
  const opp = state.opponent;
  if(state.autoAI){
   // chase & shoot if opportunity
   if(!state.opponent.hasBall){
     const dx = state.ball.x - opp.x, dy = state.ball.y - opp.y, d = Math.hypot(dx,dy)||1;
     opp.vx += (dx/d) * 0.03;
     opp.vy += (dy/d) * 0.03;
   } else {
     // if near bottom, shoot toward bottom goal
     if(opp.y > PH - 30){
      kickBallTo(50, PH - 2, 1.6);
      state.opponent.hasBall = false;
     } else {
      opp.vy += 0.02; // advance forward
     }
   }
   // occasionally attempt to take ball if near player
    if(!state.opponent.hasBall && dist(state.opponent, state.player) < 5 && Math.random() <
0.12){}
     state.opponent.hasBall = true; state.player.hasBall = false;
```

```
state.ball.x = state.opponent.x; state.ball.y = state.opponent.y; state.ball.vx=0;
state.ball.vy=0;
   }
  } else {
   // conservative AI: mark player and intercept
    const target = {x: state.player.x, y: Math.min(state.player.y, 40)};
    opp.vx += (target.x - opp.x) * 0.02;
   opp.vy += (target.y - opp.y) * 0.02;
    if(!state.opponent.hasBall && dist(state.opponent, state.ball) < 4){
     state.opponent.hasBall = true; state.player.hasBall = false;
     state.ball.x = state.opponent.x; state.ball.y = state.opponent.y; state.ball.vx=0;
state.ball.vy=0;
   }
   if(state.opponent.hasBall && opp.y < 30 && Math.random() < 0.02){
     kickBallTo(50, PH - 2, 1.4); state.opponent.hasBall = false;
   }
  }
 }
 // Physics/integration
 function integrate(obj, dt, speed){
  obj.x += obj.vx * dt;
  obj.y += obj.vy * dt;
  const vmax = 0.95 * speed;
  const v = Math.hypot(obj.vx, obj.vy);
  if(v > vmax){
   obj.vx = (obj.vx/v) * vmax; obj.vy = (obj.vy/v) * vmax;
  }
  // friction
  obj.vx *= 0.85; obj.vy *= 0.85;
 function clampEntity(e){
  e.x = clamp(e.x, 6, PW - 6);
  e.y = clamp(e.y, 6, PH - 6);
 function clampBall(){
  state.ball.x = clamp(state.ball.x, 2, PW - 2);
  state.ball.y = clamp(state.ball.y, 2, PH - 2);
 }
 function respawnAfterGoal(playerScored){
  state.running = false;
  setTimeout(()=>{
   if(playerScored){
```

```
state.player.x = 50; state.player.y = PH - 20; state.player.hasBall = false;
     state.opponent.x = 50; state.opponent.y = 30; state.opponent.hasBall = true;
     state.ball.x = state.opponent.x; state.ball.y = state.opponent.y;
   } else {
     state.player.x = 50; state.player.y = PH - 20; state.player.hasBall = true;
     state.opponent.x = 50; state.opponent.y = 30; state.opponent.hasBall = false;
     state.ball.x = state.player.x; state.ball.y = state.player.y;
   }
   state.ball.vx = state.ball.vy = 0;
   state.running = true;
  }, 900);
 }
 // Timer & UI
 setInterval(()=>{
  if(state.running && state.timeLeft > 0){
   state.timeLeft--;
   if(state.timeLeft <= 0){
     state.running = false;
     setTimeout(()=>{ alert(`Match ended: You ${state.scoreYou} — Opp ${state.scoreOpp}`); },
150);
   updateUI();
 }, 1000);
 function updateUI(){
  timeEl.textContent = state.timeLeft;
  scoreYouEl.textContent = state.scoreYou;
  scoreOppEl.textContent = state.scoreOpp;
  powerBar.style.width = Math.max(6, Math.min(100, state.power)) + '%';
  modeEl.textContent = state.mode.charAt(0).toUpperCase() + state.mode.slice(1);
 }
 // Respawn & full reset
 function fullReset(){
  state.scoreYou = state.scoreOpp = 0; state.timeLeft = 60; state.running = true; updateUI();
resetRound():
}
 // Main loop
 let last = performance.now();
 function step(now){
  const dt = Math.min(40, now - last) / 16.666;
```

```
last = now:
  if(state.running){
   // keyboard movement
   let mx = 0, my = 0;
    if(keys['w'] || keys['arrowup']) my -= 1;
   if(keys['s'] || keys['arrowdown']) my += 1;
    if(keys['a'] || keys['arrowleft']) mx -= 1;
    if(keys['d'] || keys['arrowright']) mx += 1;
    if(mx !== 0 || my !== 0){}
     state.player.vx += mx * 0.12 * state.player.speed;
     state.player.vy += my * 0.12 * state.player.speed;
    }
    // pointer drag movement (mobile)
    if(pointer.down && pointer.dragging && state.player.hasBall){
     const rect = canvas.getBoundingClientRect();
     const world = screenToWorldXY(pointer.x, pointer.y);
     const dx = world.x - state.player.x, dy = world.y - state.player.y;
     state.player.vx += dx * 0.04;
     state.player.vy += dy * 0.04;
   }
   // integrate players
    integrate(state.player, dt, state.player.speed);
    integrate(state.opponent, dt, state.opponent.speed);
   // update ball
    state.ball.x += state.ball.vx * dt;
   state.ball.y += state.ball.vy * dt;
   state.ball.vx *= 0.985; state.ball.vy *= 0.985;
   // possession pickups
    if(!state.player.hasBall && dist(state.ball, state.player) < 4){
     state.player.hasBall = true; state.opponent.hasBall = false;
     state.ball.vx = state.ball.vy = 0; state.ball.x = state.player.x; state.ball.y = state.player.y;
    }
    if(!state.opponent.hasBall && dist(state.ball, state.opponent) < 4){
     state.opponent.hasBall = true; state.player.hasBall = false;
     state.ball.vx = state.ball.vy = 0; state.ball.x = state.opponent.x; state.ball.y =
state.opponent.y;
   }
    clampEntity(state.player);
    clampEntity(state.opponent);
    clampBall();
```

```
// AI
  updateAl(dt);
  // check goal lines (top is opponent goal; bottom is your goal)
  if(state.ball.y < 2){
   // opponent scored
   state.scoreOpp++;
   updateUI();
   respawnAfterGoal(false);
  } else if(state.ball.y > PH - 2){
   // player scored
   state.scoreYou++;
   updateUI();
   respawnAfterGoal(true);
  }
 }
 render();
 requestAnimationFrame(step);
}
// Render function
function render(){
 ctx.clearRect(0,0,W,H);
 // pitch gradient
 const g = ctx.createLinearGradient(0,0,W,H);
 g.addColorStop(0,'#0b6b3e'); g.addColorStop(1,'#0b5a36');
 ctx.fillStyle = g;
 ctx.fillRect(0,0,W,H);
 // boundary & lines
 ctx.strokeStyle = 'rgba(255,255,255,0.07)';
 ctx.lineWidth = 2;
 ctx.strokeRect(18,18,W-36,H-36);
 ctx.beginPath(); ctx.moveTo(W/2,18); ctx.lineTo(W/2,H-18); ctx.stroke();
 ctx.beginPath(); ctx.arc(W/2, H/2, 46, 0, Math.PI*2); ctx.stroke();
 // goals
 ctx.fillStyle = 'rgba(255,255,255,0.06)';
 ctx.fillRect(W*0.38,18-6, W*0.24, 6); ctx.fillRect(W*0.38, H-18, W*0.24, 6);
 // players
 drawPlayer(state.opponent, '#ff6b6b', 'Al');
```

```
drawPlayer(state.player, '#00d1ff', 'YOU');
  // ball
  drawBall();
  // bottom overlay
  ctx.fillStyle = 'rgba(0,0,0,0.06)'; ctx.fillRect(0,H-62,W,62);
 }
 function drawPlayer(p, color, label){
  const x = vtx(p.x), y = vty(p.y);
  // shadow
  ctx.fillStyle = 'rgba(0,0,0,0.3)';
  ctx.beginPath(); ctx.ellipse(x, y+12, 18, 6, 0,0,Math.PI*2); ctx.fill();
  // body
  ctx.fillStyle = color;
  ctx.beginPath(); ctx.arc(x, y, Math.round(6 + p.radius/1.2), 0, Math.PI*2); ctx.fill();
  ctx.fillStyle = '#001'; ctx.font = '12px sans-serif';
  ctx.fillText(label === 'YOU' ? 'U' : 'A', x-5, y+4);
  if(p.hasBall){
   ctx.strokeStyle = 'rgba(255,255,255,0.12)'; ctx.lineWidth = 2;
   ctx.beginPath(); ctx.arc(x, y, 12, 0, Math.PI*2); ctx.stroke();
   // ball follows
   state.ball.x = p.x; state.ball.y = p.y;
   state.ball.vx = state.ball.vy = 0;
  }
 }
 function drawBall(){
  const bx = vtx(state.ball.x), by = vty(state.ball.y);
  ctx.fillStyle = '#fff'; ctx.beginPath(); ctx.arc(bx, by, 7, 0, Math.PI*2); ctx.fill();
  ctx.fillStyle = 'rgba(0,0,0,0,0.1)'; ctx.beginPath(); ctx.arc(bx-3, by-2, 2.5, 0, Math.PI^*2); ctx.fill();
 }
 // quick power adjust: long-press on power bar area to charge
 let pTimer = null;
 powerBar.parentElement.parentElement.addEventListener('pointerdown', e=>{
  pTimer = setInterval(()=>{ state.power = clamp(state.power + 2, 6, 100); updateUI(); }, 90);
 });
 window.addEventListener('pointerup', e=>{ clearInterval(pTimer); pTimer = null; });
 // prevent touch scroll
 document.addEventListener('touchmove', e=>{ if(e.target === canvas ||
e.target.closest('#field')) e.preventDefault(); }, {passive:false});
```

```
updateUI();
requestAnimationFrame(step);
})();
</script>
</body>
</html>
```