

BARREL Score Dashboard Update

Date: November 25, 2025

Status:  Complete and Deployed

Overview

Restored and emphasized the **BARREL Score** as the primary metric on the Player Dashboard, making it the most prominent visual element. The 4Bs breakdown (Anchor, Engine, Whip) is now displayed as secondary detail metrics.

Changes Made

1. BARREL Score - Primary Metric

Created a new prominent BARREL Score card that displays:

- **Position:** Top of dashboard, before 4Bs breakdown
- **Font Size:** `text-7xl` (mobile) to `text-8xl` (desktop) - significantly larger than any other score
- **Layout:** Centered horizontally and vertically within a large card
- **Label:** "BARREL Score" with subtitle "Your Overall Swing Performance"
- **Calculation:** Average of Anchor, Engine, and Whip scores: `Math.round((anchor + engine + whip) / 3)`
- **Visual Features:**
 - Animated progress bar showing percentage
 - Mini sub-scores display (A/E/W) below main score
 - Orange gradient background with prominent border
 - Drop shadow for depth and emphasis

2. 4Bs Breakdown - Secondary Metrics

Updated the Anchor, Engine, and Whip score cards:

- **New Section Title:** "Your 4Bs Breakdown" (was "Your 4Bs Metrics")
- **Updated Labels with Full Descriptions:**
 - "Anchor (Feet & Ground)" - Lower Body Foundation
 - "Engine (Hips & Shoulders)" - Core Rotation Power
 - "Whip (Arms & Bat)" - Bat Speed & Connection
- **Font Size:** `text-4xl` (mobile) to `text-5xl` (desktop) in ScoreCard component
- **Visual Hierarchy:** Clearly secondary to the BARREL Score but still readable

3. Design Principles Maintained

 **No changes to:**

- URLs, domains, or routing
- Global color palette
- Font families

- Overall layout structure
- Component architecture

✓ Only changed:

- Font sizes and relative emphasis
- Section titles and card labels
- Visual hierarchy and prominence

Technical Implementation

File Modified

app/dashboard/dashboard-client.tsx

```
// BARREL Score - Primary Metric
<motion.div className="relative bg-gradient-to-br from-orange-500/20 to-orange-600/20
border-2 border-orange-500/50 rounded-2xl p-8 shadow-2xl">
  {/* Title */}
  <div className="text-center mb-4">
    <h2 className="text-xl font-bold text-white uppercase tracking-wider">
      BARREL Score
    </h2>
    <p className="text-sm text-gray-400 mt-1">Your Overall Swing Performance</p>
  </div>

  {/* Large centered score */}
  <div className="flex items-center justify-center mb-6">
    <div className="text-7xl md:text-8xl font-black text-white drop-shadow-2xl">
      {Math.round((scores.anchor + scores.engine + scores.whip) / 3) || 0}
    </div>
  </div>

  {/* Progress bar */}
  <div className="w-full bg-gray-700/50 rounded-full h-3 mb-4 overflow-hidden">
    <motion.div
      initial={{ width: 0 }}
      animate={{ width: `${((scores.anchor + scores.engine + scores.whip) / 3)}%` }}
      transition={{ duration: 0.8, delay: 0.2 }}
      className="h-3 rounded-full bg-gradient-to-r from-orange-500 to-orange-400
shadow-lg"
    />
  </div>

  {/* Mini sub-scores */}
  <div className="flex gap-2 justify-center text-sm">
    <div className="bg-blue-500/20 rounded-lg px-3 py-2 text-center border border-
blue-500/30">
      <div className="text-blue-400 font-semibold">A</div>
      <div className="text-white font-bold">{scores.anchor || 0}</div>
    </div>
    {/* Engine and Whip similar */}
  </div>
</motion.div>
```

Build Verification

- ✓ TypeScript compilation: **Success**
 - ✓ Next.js production build: **Success**
 - ✓ No errors or warnings
-

Visual Hierarchy

Before

- Anchor, Engine, Whip displayed equally with no overall score
- No clear primary metric

After

1. **PRIMARY: BARREL Score**
 - Largest text size (7xl/8xl)
 - Centered and prominent
 - Clear visual emphasis
 2. **SECONDARY: 4Bs Breakdown**
 - Smaller text size (4xl/5xl)
 - Detailed metrics with expand/collapse
 - Full descriptive labels
-

User Experience

What Players See

1. **Immediate Visual:** Large BARREL Score (overall performance)
2. **Quick Reference:** Mini A/E/W sub-scores below
3. **Detailed Breakdown:** Expandable 4Bs metrics for deep analysis
4. **Clear Labels:** Full descriptions for each metric category

Mobile & Desktop

- **Mobile:** text-7xl BARREL Score, text-4xl 4Bs scores
 - **Desktop:** text-8xl BARREL Score, text-5xl 4Bs scores
 - Responsive design maintains hierarchy across all screen sizes
-

Testing Checklist

- [x] BARREL Score displays correctly
- [x] BARREL Score is visually larger than 4Bs metrics
- [x] Calculation is accurate (average of A/E/W)
- [x] Mini sub-scores display correctly
- [x] Progress bar animates smoothly
- [x] 4Bs metrics retain full functionality

- [x] Labels updated with full descriptions
- [x] Mobile responsive design works
- [x] TypeScript compiles without errors
- [x] Production build succeeds

Deployment

Git Commit: 225ef4a

Commit Message: “feat(dashboard): Restore and emphasize BARREL Score as primary metric”

Deploy Command:

```
cd /home/ubuntu/barrels_pwa/nextjs_space
npm run build
# Deploy to production
```

Future Enhancements

Potential Improvements

1. **Historical Trend:** Show BARREL Score trend over time
2. **Personal Best:** Highlight when achieving a new BARREL Score PR
3. **Percentile Ranking:** Compare BARREL Score against other athletes
4. **Custom Calculation:** Allow coaches to adjust weighting of A/E/W
5. **Goal Setting:** Set BARREL Score targets and track progress

Advanced Features

- **Drill Recommendations:** Suggest drills based on BARREL Score components
- **AI Insights:** Coach Rick analysis of BARREL Score patterns
- **Leaderboard Integration:** Community BARREL Score rankings
- **Export/Share:** Share BARREL Score cards to social media

Notes

- The BARREL Score serves as the **single source of truth** for overall swing performance
- The 4Bs breakdown provides **actionable insights** for targeted improvement
- This design aligns with the “**simple to understand, deep to master**” philosophy
- The visual hierarchy guides players from **high-level (BARREL) to detailed (4Bs)**

Support

For questions or issues, contact:

- Technical: Development team

- Product: Product management
- Coaches: Coach Rick support

Documentation: `/docs/barrel-score-dashboard-update.md`

Last Updated: November 25, 2025