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import React, { useState, useCallback, useEffect } from 'react';
import {
  Send, Download, Copy, CheckCircle, TrendingUp,
  AlertCircle, Brain, Eye, EyeOff, Loader,
  Settings, ChevronRight, Share2, Activity
} from 'lucide-react';

/**
 * COMPOSANT SVG FLEUR DE LYS
 * Crée sur mesure pour l'esthétique Cognitive RAID
 */
const FleurDeLys = ({ className }: { className?: string }) => (
  <svg
    viewBox="0 0 24 24"
    fill="currentColor"
    className={className}
    xmlns="http://www.w3.org/2000/svg"
  >
    <path d="M12 2C12 2 8 6 8 9C8 11.5 9.5 13 11 13.5V16C9 16 6 14 6 11C6 9 5 8 4 8C3 8 2 9 2 11C2 15
5 17 8 18V21C6 21.5 5 22 5 22H19C19 22 18 21.5 16 21V18C19 17 22 15 22 11C22 9 21 8 20 8C19 8 18 9 18
11C18 14 15 16 13 16V13.5C14.5 13 16 11.5 16 9C16 6 12 2 12 2ZM12 6C13 6 13.5 8 13.5 9C13.5 10 13 11
12 11C11 11 10.5 10 10.5 9C10.5 8 11 6 12 6Z" />
  </svg>
);

export default function CognitiveRAID() {
  // ===== STATE MANAGEMENT =====
  const [step, setStep] = useState<'keys' | 'question' | 'processing' | 'results'>('keys');

  // Clés API pour les 5 moteurs du RAID
  const [apiKeys, setApiKeys] = useState({
    claude: '',
    chatgpt: '',
    gemini: '',
    grok: '',
    copilot: '' // Utilisera l'endpoint OpenAI avec un prompt système spécifique "Copilot"
  });

  const [showKeys, setShowKeys] = useState({
    claude: false,
    chatgpt: false,
    gemini: false,
    grok: false,
    copilot: false
  });

  const [question, setQuestion] = useState('');
  const [responses, setResponses] = useState<Record<string, string>>({});
  const [synthesis, setSynthesis] = useState<any>(null);
  const [loading, setLoading] = useState(false);
  const [error, setError] = useState<string | null>(null);
  const [progress, setProgress] = useState('');

  // ===== MOTEUR CRAID (Logique V2.0 Optimisée) =====

  // 1. Extraction des Concepts (Stopwords Français)
  const extractConcepts = useCallback((text: string) => {
    if (!text || text.length < 50) return [];
    const words = text.match(/\b[a-zA-ZÀÁÈÉÈÍÓÙÚÜÆÇ]{5,}\b/gi) || [];
    const stopwords = new Set([
      'cette', 'comme', 'dans', 'pour', 'avec', 'sont', 'leurs', 'plus', 'peut',
      'être', 'fait', 'permet', 'avoir', 'faire', 'entre', 'donc', 'aussi', 'ainsi',
      'nous', 'vous', 'elles', 'notre', 'votre', 'cela', 'ceci', 'vers'
    ]);
  });
}

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const freq: Record<string, number> = {};
words.forEach(w => {
  const normalized = w.toLowerCase();
  if (!stopwords.has(normalized)) {
    freq[normalized] = (freq[normalized] || 0) + 1;
  }
});
return Object.entries(freq)
  .sort((a, b) => b[1] - a[1])
  .slice(0, 40)
  .map(([word]) => word);
}, []);

// 2. Segmentation
const splitSentences = useCallback((text: string) => {
  if (!text) return [];
  return text
    .split(/[^.!?]\s+|\n{2,}/)
    .map(s => s.trim())
    .filter(s => s.length > 20 && s.length < 500);
}, []);

// 3. Extraction des Affirmations (Claims)
const extractClaims = useCallback((text: string) => {
  if (!text || text.length < 100) return [];
  const markers = [
    'est ', 'sont ', 'représente', 'correspond', 'signifie', 'implique',
    'démontre', 'prouve', 'est une', 'est le', 'est la', 'émerge', 'propose',
    'affirme', 'suggère', 'indique', 'montre', 'révèle', 'confirme', 'faut'
  ];
  const sentences = splitSentences(text);
  return sentences
    .filter(s => markers.some(m => s.toLowerCase().includes(m)))
    .slice(0, 25);
}, [splitSentences]);

// 4. Calcul de Similarité (Jaccard)
const claimsSimilarity = useCallback((claim1: string, claim2: string) => {
  if (!claim1 || !claim2 || claim1.length < 10 || claim2.length < 10) return 0;
  const words1 = new Set(claim1.toLowerCase().match(/\b\w{4,}\b/g) || []);
  const words2 = new Set(claim2.toLowerCase().match(/\b\w{4,}\b/g) || []);
  if (words1.size === 0 || words2.size === 0) return 0;
  const intersection = [...words1].filter(w => words2.has(w)).length;
  const union = new Set([...words1, ...words2]).size;
  return union > 0 ? intersection / union : 0;
}, []);

// 5. Algorithme de Consensus (C)
const findConsensus = useCallback((allResponses: Record<string, string>) => {
  const activeResponses = Object.entries(allResponses)
    .filter(([_, data]) => data && data.length > 100)
    .map(([key, content]) => ({ key, name: key.toUpperCase(), content }));

  if (activeResponses.length < 2) return { concepts: [], claims: [], confidence: 0 };

  // Concepts Communs
  const conceptSets = activeResponses.map(resp => new Set(extractConcepts(resp.content)));
  let commonConcepts = conceptSets.length > 0 ? Array.from(conceptSets[0]) : [];
  for (let i = 1; i < conceptSets.length; i++) {
    commonConcepts = commonConcepts.filter(c => conceptSets[i].has(c));
  }

  // Claims Communs
  const allClaims: any[] = [];
  activeResponses.forEach(resp => {
    const normalizedContent = resp.content.toLowerCase();
    const matchingClaims = allClaims.filter(c => normalizedContent.includes(c.name));
    if (matchingClaims.length > 0) {
      matchingClaims.forEach(c => c.confidence += 1);
    } else {
      const newClaim = { name: resp.name, confidence: 1 };
      allClaims.push(newClaim);
    }
  });
  const sortedClaims = allClaims.sort((a, b) => b.confidence - a.confidence);
  return { concepts: commonConcepts, claims: sortedClaims, confidence: 1 };
}, [allResponses]);

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extractClaims(resp.content).forEach(claim => {
  allClaims.push({ claim, ai: resp.name });
});

const consensusClaims: any[] = [];
const seen = new Set();

// Limite pour éviter freeze UI
const maxChecks = 600;
let checks = 0;

for (let i = 0; i < allClaims.length && checks < maxChecks; i++) {
  const claimNorm = allClaims[i].claim.toLowerCase().substring(0, 50);
  if (seen.has(claimNorm)) continue;
  seen.add(claimNorm);

  let supporters = [allClaims[i].ai];
  for (let j = i + 1; j < allClaims.length; j++) {
    checks++;
    if (claimsSimilarity(allClaims[i].claim, allClaims[j].claim) > 0.45) {
      if (!supporters.includes(allClaims[j].ai)) {
        supporters.push(allClaims[j].ai);
      }
    }
  }
  if (supporters.length >= 2) {
    consensusClaims.push({
      claim: allClaims[i].claim,
      support: supporters.length,
      ais: supporters,
      confidence: supporters.length / activeResponses.length
    });
  }
}

return {
  concepts: commonConcepts.slice(0, 20),
  claims: consensusClaims.sort((a, b) => b.confidence - a.confidence).slice(0, 10),
  confidence: commonConcepts.length > 0 ? Math.min(commonConcepts.length / 20, 1) : 0
};
}, [extractConcepts, extractClaims, claimsSimilarity]);

// 6. Algorithme de Divergences (D) & Insights (I)
const findDivergencesAndInsights = useCallback((allResponses: Record<string, string>) => {
  const activeResponses = Object.entries(allResponses)
    .filter(([_, content]) => content && content.length > 100)
    .map(([key, content]) => ({ key, name: key.toUpperCase(), content }));

  const divergences: any[] = [];
  const insights: Record<string, string[]> = {};

  if (activeResponses.length < 2) return { divergences, insights };

  activeResponses.forEach((resp, idx) => {
    // Divergences Conceptuelles
    const concepts = new Set(extractConcepts(resp.content));
    const otherConcepts = new Set();
    activeResponses.forEach((other, oidx) => {
      if (oidx !== idx) extractConcepts(other.content).forEach(c => otherConcepts.add(c));
    });
    const uniqueConcepts = [...concepts].filter(c => !otherConcepts.has(c)).slice(0, 8);
    if (uniqueConcepts.length > 0) {
      divergences.push({ ai: resp.name, concepts: uniqueConcepts });
    }
  });
})

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}
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// Insights Uniques (Claims)
const claims = extractClaims(resp.content);
const uniqueClaims: string[] = [];
let checks = 0;

claims.forEach(claim => {
  if (checks > 200) return;
  let isUnique = true;
  activeResponses.forEach((other, oidx) => {
    if (oidx === idx) return;
    extractClaims(other.content).forEach(otherClaim => {
      checks++;
      if (claimsSimilarity(claim, otherClaim) > 0.50) isUnique = false;
    });
  });
  if (isUnique) uniqueClaims.push(claim);
});
insights[resp.name] = uniqueClaims.slice(0, 4);
});

return { divergences, insights };
}, [extractConcepts, extractClaims, claimsSimilarity]);

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// ===== API CALLS =====

```

const callAPI = async (provider: string, q: string) => {
  try {
    if (provider === 'claude') {
      const res = await fetch('https://api.anthropic.com/v1/messages', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json', 'x-api-key': apiKeys.claude, 'anthropic-version': '2023-06-01' },
        body: JSON.stringify({ model: 'claude-3-5-sonnet-20241022', max_tokens: 1500, messages: [{ role: 'user', content: q }] })
      });
      const data = await res.json();
      return data.content?.[0]?.text;
    }

    if (provider === 'chatgpt' || provider === 'copilot') {
      // Copilot simule un style plus "Microsoft/Corp" via prompt system
      const systemPrompt = provider === 'copilot'
        ? "You are Copilot, a helpful AI assistant. Be concise, professional, and focus on practical application."
        : "You are a helpful assistant.";

      const res = await fetch('https://api.openai.com/v1/chat/completions', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json', 'Authorization': `Bearer ${provider === 'copilot' ? apiKeys.copilot : apiKeys.chatgpt}` },
        body: JSON.stringify({
          model: 'gpt-4o', // ou gpt-4-turbo
          messages: [
            { role: 'system', content: systemPrompt },
            { role: 'user', content: q }
          ],
          max_tokens: 1500
        })
      });
      const data = await res.json();
      return data.choices?.[0]?.message?.content;
    }
  }
}

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if (provider === 'gemini') {
  const res = await fetch(`https://generativelanguage.googleapis.com/v1beta/models/gemini-1.5-
flash:generateContent?key=${apiKeys.gemini}`, {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ contents: [{ parts: [{ text: q }] }] })
  });
  const data = await res.json();
  return data.candidates?.[0]?.content?.parts?.[0]?.text;
}

if (provider === 'grok') {
  // Grok utilise une interface compatible OpenAI
  const res = await fetch('https://api.x.ai/v1/chat/completions', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json', 'Authorization': `Bearer ${apiKeys.grok}` },
    body: JSON.stringify({
      model: 'grok-beta',
      messages: [{ role: 'user', content: q }],
      max_tokens: 1500
    })
  });
  const data = await res.json();
  return data.choices?.[0]?.message?.content;
}

} catch (e: any) {
  console.error(`${provider} Error:`, e);
  throw new Error(`${provider.toUpperCase()} : ${e.message || 'Error'}`);
}
};

const handleLaunchRAID = async () => {
  if (!question.trim()) { setError('⚠ Question requise'); return; }

  // Vérifier qu'au moins 2 clés sont présentes pour la redondance
  const activeKeys = Object.entries(apiKeys).filter(([_, k]) => k.length > 5);
  if (activeKeys.length < 2) { setError('⚠ Le protocole RAID exige au moins 2 sources d\'intelligence.'); return; }

  setLoading(true);
  setError(null);
  setResponses({});
  setStep('processing');

  const results: Record<string, string> = {};
  const providers = activeKeys.map(k => k[0]);

  // Exécution Parallèle (RAID 0 Striping simulé pour la vitesse)
  try {
    const promises = providers.map(async (provider) => {
      setProgress(`Connexion au noeud ${provider.toUpperCase()}...`);
      try {
        const text = await callAPI(provider, question);
        if (text) results[provider] = text;
      } catch (e: any) {
        console.error(e);
        // On continue même si un noeud échoue (Tolérance aux pannes RAID)
      }
    });
    await Promise.all(promises);

    if (Object.keys(results).length < 2) {
      throw new Error("Échec critique: Pas assez de réponses pour le consensus.");
    }
  }
}

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        }

        setResponses(results);
        setProgress('Assemblage CRAID en cours...');

        // Synthèse locale
        await new Promise(r => setTimeout(r, 800)); // Petit délai pour UX

        const consensus = findConsensus(results);
        const { divergences, insights } = findDivergencesAndInsights(results);

        setSynthesis({
            question,
            timestamp: new Date().toISOString(),
            consensus,
            divergences,
            insights,
            sourceCount: Object.keys(results).length
        });

        setStep('results');

    } catch (err: any) {
        setError(err.message);
        setStep('question');
    } finally {
        setLoading(false);
        setProgress('');
    }
};

// ===== GENERATION MARKDOWN =====
const generateMarkdown = () => {
    if (!synthesis) return '';
    const date = new Date(synthesis.timestamp).toLocaleString('fr-CA');
    let md = `# 🌐 COGNITIVE RAID REPORT\n\n`;
    md += `**Date:** ${date}\n**Sources:** ${synthesis.sourceCount} Nodes\n**Question:** ${synthesis.question}\n\n---\n`;

    md += `## ✅ CONSENSUS (La Vérité Émergente)\n`;
    synthesis.consensus.claims.forEach((c: any) => {
        md += `- **[$ {Math.round(c.confidence * 100)}%]** ${c.claim}\n`;
    });
    md += `\n**Concepts Clés:** ${synthesis.consensus.concepts.join(', ')}\n\n`;

    md += `##💡 INSIGHTS (Signaux Faibles)\n`;
    Object.entries(synthesis.insights).forEach(([ai, list]: any) => {
        if (list.length > 0) {
            md += `**${ai}:**\n${list.map((l: string) => ` - ${l}`).join('\n')}\n`;
        }
    });
    md += `\n##🔥 DIVERGENCES (Zones d'Incertitude)\n`;
    synthesis.divergences.forEach((d: any) => {
        md += ` - **${d.ai}** focus sur: ${d.concepts.join(', ')}\n`;
    });

    md += `\n---\n*Généré par Cognitive RAID v1.0 | Bryan Ouellette*`;
    return md;
};

const copyToClipboard = () => {
    navigator.clipboard.writeText(generateMarkdown());
    alert('Rapport copié dans le presse-papier.');
};

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};

// ===== RENDER =====
return (
  <div className="min-h-screen text-white font-sans selection:bg-cyan-500 selection:text-black
overflow-x-hidden relative">

  {/* BACKGROUND FRACTAL / GRADIENT QUEBEC */}
  <div className="fixed inset-0 z-0 bg-[#000510]">
    <div className="absolute inset-0 bg-gradient-to-br from-black via-[#002060] to-black opacity-
90"></div>
    {/* Motif Fractal Subtil */}
    <div className="absolute inset-0 opacity-10" style={{
      backgroundImage: 'radial-gradient(circle at 2px 2px, rgba(255,255,255,0.15) 1px,
transparent 0)',
      backgroundSize: '32px 32px'
    }}></div>
  </div>

  <div className="relative z-10 max-w-5xl mx-auto px-6 py-12 flex flex-col min-h-screen">

    {/* HEADER */}
    <header className="flex flex-col items-center justify-center mb-16 space-y-4">
      <div className="flex items-center gap-6">
        <FleurDeLys className="w-12 h-12 text-white animate-pulse" />
        <h1 className="text-5xl md:text-7xl font-black tracking-tighter text-transparent bg-clip-
text bg-gradient-to-r from-white via-cyan-200 to-blue-400 drop-shadow-
[0_0_15px_rgba(0,100,255,0.5)]">
          COGNITIVE RAID
        </h1>
        <FleurDeLys className="w-12 h-12 text-white animate-pulse" />
      </div>
      <p className="text-blue-200 text-lg md:text-xl font-light tracking-widest uppercase border-
b border-blue-500/30 pb-2">
        Architecture de Symbiose Human-IA Distribuée
      </p>
    </header>

    {/* MAIN CONTENT AREA - GOLDEN RATIO PROPORTIONS */}
    <main className="flex-grow w-full">

      {/* STEP 1: API KEYS (THE VAULT) */}
      {step === 'keys' && (
        <div className="bg-black/40 backdrop-blur-xl border border-white/10 rounded-2xl p-8 md:p-
12 shadow-2xl animate-fade-in">
          <h2 className="text-3xl font-bold mb-8 flex items-center gap-3 text-cyan-400">
            <Settings className="w-8 h-8" /> Configuration du Cluster
          </h2>

          <div className="grid grid-cols-1 md:grid-cols-2 gap-6">
            [
              {
                id: 'claude', label: 'Claude (Anthropic)', color: 'border-orange-500/50' },
                id: 'chatgpt', label: 'ChatGPT (OpenAI)', color: 'border-green-500/50' },
                id: 'gemini', label: 'Gemini (Google)', color: 'border-blue-500/50' },
                id: 'grok', label: 'Grok (xAI)', color: 'border-white/50' },
                id: 'copilot', label: 'Copilot (Microsoft)', color: 'border-pink-500/50' },
              ].map((provider) => (
                <div key={provider.id} className={`bg-white/5 border ${provider.color} p-4 rounded-
xi transition hover:bg-white/10`}>
                  <label className="block text-sm font-bold mb-2 tracking-wide text-gray-300">
{provider.label}</label>
                  <div className="flex gap-2">
                    <input
                      type={showKeys[provider.id as keyof typeof showKeys] ? "text" : "password"}
                      value={apiKeys[provider.id as keyof typeof apiKeys]}>

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        onChange={(e) => setApiKeys({...apiKeys, [provider.id]: e.target.value})}
        className="w-full bg-black/50 border border-white/10 rounded px-3 py-2 text-cyan-300 focus:outline-none focus:border-cyan-500 font-mono text-sm"
        placeholder="sk-..."
      />
      <button
        onClick={() => setShowKeys({...showKeys, [provider.id]: !showKeys[provider.id] as keyof typeof showKeys])}
        className="text-gray-400 hover:text-white"
      >
        {showKeys[provider.id as keyof typeof showKeys] ? <EyeOff size={18}/> : <Eye size={18}>}
      </button>
    </div>
  </div>
  ))}
</div>

<div className="mt-10 flex justify-end">
  <button
    onClick={() => setStep('question')}
    className="group relative px-8 py-4 bg-white text-blue-900 font-black text-lg rounded-full hover:shadow-[0_0_20px_rgba(255,255,255,0.4)] transition-all flex items-center gap-3"
  >
    ACTIVER LE RAID <ChevronRight className="group-hover:translate-x-1 transition-transform" />
  </button>
</div>
</div>
)}

/* STEP 2: QUESTION (THE INPUT) */
{step === 'question' && (
  <div className="bg-black/40 backdrop-blur-xl border border-white/10 rounded-2xl p-8 md:p-12 shadow-2xl animate-fade-in">
    <div className="flex justify-between items-center mb-6">
      <h2 className="text-3xl font-bold text-white">Requête Principale</h2>
      <button onClick={() => setStep('keys')} className="text-sm text-gray-400 hover:text-white underline">Reconfigurer Clés</button>
    </div>

    <textarea
      value={question}
      onChange={(e) => setQuestion(e.target.value)}
      placeholder="Entrez votre question complexe ici. Le RAID va la distribuer et synthétiser la vérité émergente..." className="w-full h-64 bg-black/30 border border-blue-500/30 rounded-xl p-6 text-xl text-white placeholder-blue-300/30 focus:outline-none focus:border-cyan-400 focus:ring-1 focus:ring-cyan-400 transition-all resize-none font-light leading-relaxed"
    />

    <div error && (className="mt-4 p-4 bg-red-900/20 border border-red-500 text-red-300 rounded flex items-center gap-3">
      <AlertCircle /> {error}
    </div>
  )}
}

<div className="mt-8 flex justify-end">
  <button
    onClick={handleLaunchRAID}
    disabled={loading}
    className="px-10 py-5 bg-gradient-to-r from-blue-600 to-cyan-600 text-white font-black text-xl rounded-xl hover:scale-105 hover:shadow-[0_0_30px_rgba(0,100,255,0.6)] transition-all disabled:opacity-50 disabled:scale-100 flex items-center gap-4"
  >

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        >
            <Brain className="w-8 h-8" /> LANCER LA SYNTHÈSE
        </button>
    </div>
</div>
)})

/* STEP 3: PROCESSING (THE CRUNCH) */
{step === 'processing' && (
    <div className="flex flex-col items-center justify-center h-96 animate-fade-in">
        <div className="relative">
            <div className="w-32 h-32 border-4 border-blue-900 rounded-full animate-spin border-t-cyan-400"></div>
                <FleurDeLys className="absolute top-1/2 left-1/2 transform -translate-x-1/2 -translate-y-1/2 w-12 h-12 text-white animate-pulse" />
            </div>
            <h3 className="mt-8 text-2xl font-bold text-cyan-300 animate-pulse">{progress}</h3>
            <p className="text-blue-300 mt-2">Réduction de l'entropie en cours...</p>
        </div>
    )}

/* STEP 4: RESULTS (THE TRUTH) */
{step === 'results' && synthesis && (
    <div className="space-y-8 animate-fade-in">

        /* STATUS BAR */
        <div className="flex items-center justify-between bg-white/5 rounded-full px-6 py-3 border border-white/10">
            <div className="flex items-center gap-4">
                <span className="flex h-3 w-3 relative">
                    <span className="animate-ping absolute inline-flex h-full w-full rounded-full bg-green-400 opacity-75"></span>
                    <span className="relative inline-flex rounded-full h-3 w-3 bg-green-500"></span>
                </span>
                <span className="text-sm font-mono text-cyan-300">RAID COMPLETED
({synthesis.sourceCount} NODES)</span>
            </div>
            <div className="flex gap-2">
                <button onClick={copyToClipboard} className="p-2 hover:bg-white/10 rounded-full text-white"><Copy size={20}/></button>
                <button onClick={() => { setStep('question'); setSynthesis(null); }} className="p-2 hover:bg-white/10 rounded-full text-white"><Share2 size={20}/></button>
            </div>
        </div>
    
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/* CONSENSUS CARD (HERO) */

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        <div className="bg-gradient-to-br from-blue-900/40 to-black border border-cyan-500/50 rounded-2xl p-8 md:p-10 shadow-[_0_0_40px_rgba(0,50,150,0.3)]">
            <h2 className="text-3xl font-bold text-white mb-6 flex items-center gap-3">
                <CheckCircle className="text-green-400 w-8 h-8" /> CONSENSUS
            </h2>
            {synthesis.consensus.claims.length > 0 ? (
                <ul className="space-y-6">
                    {synthesis.consensus.claims.map((claim: any, i: number) => (
                        <li key={i} className="flex gap-4 items-start group">
                            <div className="mt-1 min-w-[3rem] text-right font-mono text-green-400 font-bold border-r border-white/20 pr-3">
                                {Math.round(claim.confidence * 100)}%
                            </div>
                            <p className="text-gray-100 text-lg leading-relaxed group-hover:text-white transition-colors">
                                {claim.claim}
                            </p>
                        </li>
                    )))
            )
        </ul>
    
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        </ul>
    ) : (
      <p className="text-gray-400 italic">Aucun consensus fort détecté. Le sujet est
hautement controversé.</p>
    )}

  {synthesis.consensus.concepts.length > 0 && (
    <div className="mt-8 pt-6 border-t border-white/10 flex flex-wrap gap-2">
      {synthesis.consensus.concepts.map((c: string, i: number) => (
        <span key={i} className="px-3 py-1 bg-cyan-900/30 text-cyan-300 text-xs font-
mono uppercase tracking-wider rounded border border-cyan-500/20">
          {c}
        </span>
      )))
    </div>
  )}
</div>

<div className="grid grid-cols-1 md:grid-cols-2 gap-8">
  {/* INSIGHTS CARD */}
  <div className="bg-black/40 border border-purple-500/30 rounded-2xl p-8">
    <h2 className="text-2xl font-bold text-purple-300 mb-6 flex items-center gap-3">
      <TrendingUp className="w-6 h-6" /> INSIGHTS UNIQUES
    </h2>
    <div className="space-y-6">
      {Object.entries(synthesis.insights).map(([ai, list]: any) => list.length > 0 && (
        <div key={ai}>
          <h3 className="text-xs font-bold text-gray-500 uppercase tracking-widest mb-
2">{ai}</h3>
          <ul className="space-y-2 border-1-2 border-purple-500/30 pl-4">
            {list.map((l: string, i: number) => (
              <li key={i} className="text-sm text-gray-300">{l}</li>
            )))
          </ul>
        </div>
      ))}
    </div>
  </div>
</div>

  {/* DIVERGENCES CARD */}
  <div className="bg-black/40 border border-orange-500/30 rounded-2xl p-8">
    <h2 className="text-2xl font-bold text-orange-300 mb-6 flex items-center gap-3">
      <AlertCircle className="w-6 h-6" /> DIVERGENCES
    </h2>
    <div className="space-y-4">
      {synthesis.divergences.length > 0 ? synthesis.divergences.map((div: any, i:
number) => (
        <div key={i} className="bg-orange-900/10 p-4 rounded border border-orange-
500/20">
          <div className="font-bold text-orange-200 mb-2">{div.ai}</div>
          <div className="flex flex-wrap gap-2">
            {div.concepts.map((c: string, j: number) => (
              <span key={j} className="text-xs text-orange-400 bg-orange-900/30 px-2
py-1 rounded">{c}</span>
            )))
          </div>
        </div>
      )) : (
        <p className="text-gray-500 text-sm">Alignement parfait entre les modèles.</p>
      )}
    </div>
  </div>
</div>

  {/* ACTION BUTTON */}

```

```
<div className="flex justify-center mt-12 pb-12">
  <button
    onClick={() => { setStep('question'); setSynthesis(null); setQuestion(''); }}
    className="px-8 py-3 bg-white/5 hover:bg-white/10 border border-white/20 rounded-full text-white transition flex items-center gap-2"
  >
    <Activity size={18} /> NOUVELLE ANALYSE
  </button>
</div>

</div>
)})

</main>

/* FOOTER */
<footer className="mt-auto py-8 text-center border-t border-blue-900/30">
  <div className="flex justify-center items-center gap-2 mb-2">
    <FleurDeLys className="w-4 h-4 text-blue-500" />
    <span className="text-blue-500 font-mono text-sm tracking-widest">COGNITIVE RAID
v1.0</span>
    <FleurDeLys className="w-4 h-4 text-blue-500" />
  </div>
  <p className="text-gray-500 text-xs">
    Powered by CRAID & Bryan Ouellette. Minimizing Cognitive Entropy.
  </p>
</footer>

</div>
</div>
);
}
```