

Marketing Video Tool - Replit Vibe Coder

Implementation Instructions

⚠ CRITICAL: READ BEFORE ANY VIDEO GENERATION

This tool **MUST NOT** generate videos randomly or without structure.

Every video **MUST** follow the Script Generation Framework and pass all quality gates before output.

1. MANDATORY WORKFLOW (No Exceptions)

USER REQUEST → SCRIPT VALIDATION → ASSET GATHERING → VIDEO ASSEMBLY → QUALITY CHECK → OUTPUT

NEVER skip directly to video generation. ALWAYS start with script validation.

2. Available Integrations & Their Roles

Integration	Purpose	When to Use
Anthropic (Claude)	Script generation, narrative structure	FIRST STEP - Always generate/validate script before any video work
Hugging Face	AI content generation, summarization (FLAN-T5)	Text processing, content enhancement
ElevenLabs	Professional voiceover generation	AFTER script is finalized and approved
Unsplash Premium	Medical/industrial imagery	Asset gathering phase only
Lottie	Professional animations/transitions	Video assembly phase
Runway	Video generation (Gen-3)	Video assembly phase

Integration	Purpose	When to Use
Stable Diffusion	Image/video generation	Asset creation, B-roll generation

3. SCRIPT GENERATION FRAMEWORK (MANDATORY)

Every video script **MUST** contain these **5** components **IN ORDER**:

javascript

```
const SCRIPT_FRAMEWORK = {  
  1: {  
    name: "HOOK",  
    duration: "3-5 seconds",  
    purpose: "Attention-grabbing opening with emotional resonance",  
    requirements: [  
      "Must address viewer directly OR pose compelling question",  
      "Must create immediate curiosity or emotional connection",  
      "Must relate to target audience's primary concern"  
    ],  
    validation: (hook) => hook.length > 0 && hook.length <= 50 // words  
  },  
  
  2: {  
    name: "PROBLEM_IDENTIFICATION",  
    duration: "5-10 seconds",  
    purpose: "Clear pain point articulation",  
    requirements: [  
      "Must state specific problem target audience faces",  
      "Must use language audience would use themselves",  
      "Must create recognition ('that's me!')"  
    ],  
    validation: (problem) => problem.includes_pain_point && problem.is_specific  
  },  
  
  3: {  
    name: "SOLUTION_PRESENTATION",  
    duration: "10-20 seconds",  
    purpose: "Product/service value proposition",  
    requirements: [  
      "Must clearly state what the solution is",  
      "Must explain HOW it solves the problem",  
      "Must list 2-3 specific benefits (not features)"  
    ]  
  }  
};
```

```

    ],
    validation: (solution) => solution.benefits.length >= 2
  },

  4: {
    name: "SOCIAL_PROOF",
    duration: "5-10 seconds",
    purpose: "Credibility establishment",
    requirements: [
      "Must include at least ONE of: testimonial, statistic, authority marker",
      "Must be specific (numbers, names, outcomes)",
      "Must be verifiable or attributable"
    ],
    validation: (proof) => proof.has_specific_claim
  },

  5: {
    name: "CALL_TO_ACTION",
    duration: "3-5 seconds",
    purpose: "Specific next steps",
    requirements: [
      "Must state EXACTLY what viewer should do",
      "Must include urgency element (why now)",
      "Must be single, clear action (not multiple options)"
    ],
    validation: (cta) => cta.action_verb && cta.urgency_element
  }
};

```

Script Generation Function (USE THIS):

javascript

```
async function generateMarketingScript(userRequest) {  
    // STEP 1: Extract marketing context  
    const context = await analyzeRequest(userRequest);  
  
    // STEP 2: Generate structured script using Claude  
    const scriptPrompt = `  
        Generate a marketing video script following this EXACT structure:  
          
        TARGET AUDIENCE: ${context.audience}  
        PRODUCT/SERVICE: ${context.product}  
        VIDEO LENGTH: ${context.duration}  
        PLATFORM: ${context.platform}  
          
        REQUIRED SECTIONS (include ALL):  
          
        ## HOOK (3-5 seconds)  
        [Write attention-grabbing opening]  
          
        ## PROBLEM (5-10 seconds)  
        [Identify specific pain point]  
          
        ## SOLUTION (10-20 seconds)  
        [Present value proposition with 2-3 benefits]  
          
        ## SOCIAL PROOF (5-10 seconds)  
        [Include testimonial, statistic, or authority marker]  
          
        ## CALL TO ACTION (3-5 seconds)  
        [Specific action + urgency]  
          
        For each section, also provide:  
        - Visual direction (what should be on screen)  
        - Audio notes (voiceover tone, music mood)  
    `}
```

REQUIRED SECTIONS (include ALL):

HOOK (3-5 seconds)
[Write attention-grabbing opening]

PROBLEM (5-10 seconds)
[Identify specific pain point]

SOLUTION (10-20 seconds)
[Present value proposition with 2-3 benefits]

SOCIAL PROOF (5-10 seconds)
[Include testimonial, statistic, or authority marker]

CALL TO ACTION (3-5 seconds)
[Specific action + urgency]

For each section, also provide:

- Visual direction (what should be on screen)
- Audio notes (voiceover tone, music mood)

- Timing in seconds

\;

```
const script = await anthropicAPI.complete(scriptPrompt);

// STEP 3: Validate script has all sections
const validation = validateScript(script);
if (!validation.passed) {
  throw new Error(`Script missing required sections: ${validation.missing.join(', ')}`);
}

return script;
}
```

4. VIDEO PRODUCTION PIPELINE (ENFORCE THIS ORDER)

```
javascript
```

```
async function produceVideo(approvedScript) {
    // =====
    // PHASE 1: SCRIPT PROCESSING
    // =====
    const parsedScript = parseScriptSections(approvedScript);

    // Validate structure
    if (!parsedScript.hook || !parsedScript.problem || !parsedScript.solution ||
        !parsedScript.socialProof || !parsedScript.callToAction) {
        throw new Error("BLOCKED: Script does not follow required framework");
    }

    // =====
    // PHASE 2: ASSET GATHERING
    // =====
    const assets = {
        images: [],
        animations: [],
        audioTracks: []
    };

    // Gather images based on script visual directions
    for (const section of parsedScript.sections) {
        if (section.visualDirection.requiresImage) {
            const image = await unsplashPremium.search({
                query: section.visualDirection.imageQuery,
                orientation: getOrientationForPlatform(parsedScript.platform)
            });
            assets.images.push({ section: section.name, image });
        }
    }

    // Generate voiceover AFTER script is complete
}
```

```
const voiceover = await elevenLabs.generateVoiceover({
  text: parsedScript.fullNarration,
  voice: parsedScript.brandVoice || "professional",
  emotionalTone: parsedScript.tone || "confident"
});
assets.audioTracks.push(voiceover);

// =====
// PHASE 3: VIDEO ASSEMBLY
// =====

const videoConfig = {
  platform: parsedScript.platform,
  aspectRatio: getAspectRatio(parsedScript.platform),
  sections: []
};

// Build each section with proper timing
for (const section of parsedScript.sections) {
  const videoSection = await assembleSection({
    script: section,
    assets: assets.images.filter(a => a.section === section.name),
    voiceoverSegment: extractVoiceoverSegment(voiceover, section.timing),
    transitions: getLottieTransition(section.transitionType)
  });
  videoConfig.sections.push(videoSection);
}

// =====
// PHASE 4: AUDIO INTEGRATION
// =====

const syncedVideo = await syncAudioToVideo({
  videoSections: videoConfig.sections,
  voiceover: voiceover,
```

```
    backgroundMusic: await selectBackgroundMusic(parsedScript.mood)
  });

// =====
// PHASE 5: QUALITY REVIEW (MANDATORY)
// =====

const qualityCheck = await runQualityChecks(syncedVideo);

if (!qualityCheck.passed) {
  console.error("QUALITY CHECK FAILED:", qualityCheck.failures);
  // Return to appropriate phase for fixes
  return { success: false, failures: qualityCheck.failures };
}

return { success: true, video: syncedVideo };
}
```

5. QUALITY ASSURANCE CHECKS (ALL MUST PASS)

```
javascript
```

```
const QUALITY_CHECKS = {
  timing: {
    name: "Timing Validation",
    check: (video) => {
      const totalDuration = video.sections.reduce((sum, s) => sum + s.duration, 0);
      const targetDuration = video.targetDuration;
      const tolerance = 0.1; // 10% tolerance
      return Math.abs(totalDuration - targetDuration) / targetDuration <= tolerance;
    },
    failureAction: "Adjust section durations to meet target"
  },
  brandCompliance: {
    name: "Brand Compliance",
    check: (video) => {
      return video.usesApprovedColors &&
        video.usesApprovedFonts &&
        video.logoPlacementCorrect;
    },
    failureAction: "Update visual elements to match brand guidelines"
  },
  messagingAlignment: {
    name: "Strategic Messaging",
    check: (video) => {
      return video.hasAllScriptSections &&
        video.ctaIsClear &&
        video.valuePropositionPresent;
    },
    failureAction: "Script does not serve marketing objectives - regenerate"
  },
  audioClarity: {
```

```
        name: "Audio Quality",
        check: (video) => {
            return video.voiceoverAudible &&
                video.musicNotOverpowering &&
                video.noAudioClipping;
        },
        failureAction: "Adjust audio levels and regenerate"
    },

    platformCompliance: {
        name: "Platform Requirements",
        check: (video) => {
            const specs = PLATFORM_SPECS[video.platform];
            return video.aspectRatio === specs.aspectRatio &&
                video.duration <= specs.maxDuration &&
                video.fileSize <= specs.maxFileSize;
        },
        failureAction: "Adjust video specifications for target platform"
    }
};

async function runQualityChecks(video) {
    const results = { passed: true, failures: [] };

    for (const [key, check] of Object.entries(QUALITY_CHECKS)) {
        const passed = await check.check(video);
        if (!passed) {
            results.passed = false;
            results.failures.push({
                check: check.name,
                action: check.failureAction
            });
        }
    }
}
```

```
    }  
  
    return results;  
}
```

6. OUTPUT FORMAT SPECIFICATIONS

```
javascript
```

```
const PLATFORM_SPECS = {  
  youtube: {  
    aspectRatio: "16:9",  
    resolution: "1920x1080",  
    maxDuration: 600, // 10 minutes  
    maxFileSize: "256MB",  
    format: "MP4"  
  },  
  tiktok: {  
    aspectRatio: "9:16",  
    resolution: "1080x1920",  
    maxDuration: 180, // 3 minutes  
    maxFileSize: "287MB",  
    format: "MP4"  
  },  
  instagram_reels: {  
    aspectRatio: "9:16",  
    resolution: "1080x1920",  
    maxDuration: 90,  
    maxFileSize: "250MB",  
    format: "MP4"  
  },  
  instagram_feed: {  
    aspectRatio: "1:1",  
    resolution: "1080x1080",  
    maxDuration: 60,  
    maxFileSize: "250MB",  
    format: "MP4"  
  },  
  linkedin: {  
    aspectRatio: "16:9",  
    resolution: "1920x1080",  
    maxDuration: 600,  
  },
```

```
    maxFileSize: "200MB",
    format: "MP4"
}
};
```

7. ERROR HANDLING & FALLBACKS

```
javascript
```

```
const ERROR_HANDLING = {
    // If primary integration fails, use fallback
    fallbacks: {
        voiceover: {
            primary: "ElevenLabs",
            fallback: "Whisper + local TTS",
            action: "Log failure, use fallback, alert user"
        },
        videoGeneration: {
            primary: "Runway Gen-3",
            fallback: "Stable Diffusion Video",
            action: "Attempt fallback, reduce quality if needed"
        },
        imageSearch: {
            primary: "Unsplash Premium",
            fallback: "Stable Diffusion image generation",
            action: "Generate custom image if stock not available"
        }
    },
    // Rate limiting protection
    rateLimiting: {
        maxRequestsPerMinute: {
            anthropic: 10,
            elevenLabs: 5,
            runway: 3
        },
        action: "Queue requests, implement exponential backoff"
    },
    // Graceful degradation
    degradation: {
        onPartialFailure: "Complete video with available assets, flag missing elements",
    }
};
```

```
onCriticalFailure: "Return partial script with manual completion instructions"
```

```
}
```

```
};
```

8. USAGE EXAMPLES

Example 1: Product Launch Video

```
javascript
```

```
// User request
const request = {
    type: "product_launch",
    product: "New fitness tracker with sleep monitoring",
    audience: "Health-conscious professionals aged 30-45",
    platform: "instagram_reels",
    duration: 60,
    tone: "energetic but professional"
};

// System should generate:
const expectedOutput = {
    script: {
        hook: "Still waking up tired despite 8 hours in bed?",
        problem: "Your sleep quality matters more than quantity. Most trackers just count hours—they miss what's really h
        solution: "FitTrack Pro monitors your actual sleep cycles, identifies disruptions, and gives you actionable insights.
        socialProof: "87% of users report better energy within 2 weeks.",
        callToAction: "Tap to claim your 30% launch discount—ends Sunday."
    },
    visuals: /* structured visual directions */[],
    timing: /* second-by-second breakdown */[],
    voiceoverSpec: /* ElevenLabs parameters */
};
```

Example 2: Testimonial Video

javascript

```
const request = {
    type: "testimonial",
    product: "B2B software solution",
    testimonialSource: "provided customer quote",
    platform: "linkedin",
    duration: 90
};

// System enforces structure even with testimonial content
const expectedOutput = {
    script: {
        hook: "How one company cut reporting time by 70%",
        problem: "Manual reporting was eating 15 hours of their week",
        solution: "[Product] automated their entire workflow",
        socialProof: "[Customer testimonial with specific metrics]",
        callToAction: "See how it works for your team—book a demo"
    }
};
```

9. IMPLEMENTATION CHECKLIST

Before considering the video tool complete, verify:

- Script generation ALWAYS follows 5-part framework
- No video is generated without validated script
- All integrations are called in correct pipeline order
- Quality checks run on EVERY output
- Platform specifications are enforced
- Error handling gracefully degrades
- User receives structured output (not random content)
- Every video serves stated marketing objective

10. ANTI-PATTERNS TO AVOID

DO NOT:

- Generate video content before script is validated
- Skip any of the 5 script sections
- Output video without running quality checks
- Use random imagery not tied to script direction
- Generate voiceover before script is finalized
- Ignore platform specifications
- Produce "creative" content that ignores the framework

ALWAYS:

- Start with script generation via Claude/Anthropic
- Validate all 5 sections are present
- Match assets to script visual directions
- Run full quality check pipeline
- Output structured, measurable content

SUMMARY: The Golden Rule

Every video must answer: "What marketing objective does this serve?"

If you cannot clearly articulate the objective, the hook, the problem, the solution, the proof, and the action—

DO NOT GENERATE THE VIDEO.

This tool exists to create strategic marketing content, not random videos. Enforce the framework without exception.