

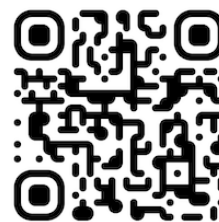
Vibe Coding Workshop Cheatsheet

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Access this cheatsheet, updates, resources, workshop projects, and more at:
<https://eisenbruch.github.io/vibe-coding-workshops/>

Click *Watch* on the GitHub repository to be notified of Cheatsheet updates and participant project uploads.



Your feedback is greatly appreciated and helps shape future workshops.

Please fill out our feedback form after the workshop: <https://forms.gle/3iVRWgUS6o8U51Ut5>



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Example Projects

Portfolio of Vibe-Coded Projects

1. **Glitch QR** (github.com/eisenbruch/glitch-qr)

- **Type:** QR code generation with a twist
- **Key Learning:** You can vibe code a simple tool in minutes, and it's fun

2. **Snark AI** (snark-ai.com)

- **Type:** Satirical AI email service
- **Key Learning:** Vibe coding actually works to make services and websites

3. **Nerktendo** (nerktendo.com)

- **Type:** Retro interface and portfolio
- **Key Learning:** Sometimes AI is really bad at things. Try different tools and dive deeper into vibe coding.

4. LinkPee (linkp.ee)

- **Type:** Fully functional "link in bio" service with secure authentication & user profiles
- **Key Learning:** "Complex" features are absolutely achievable

5. Weather Worsener (nerktendo.com/weather-worsener)

- **Type:** Interactive game
- **Key Learning:** Fun and loose iterative projects are great for experimenting with concepts and mechanics and allow you to explore concepts and themes freely.

6. DomainFlip (nerktendo.com/domainflip)

- **Type:** Investor-ready startup demo
- **Key Learning:** Clear vision + detailed context = polished results

7. TrafficVision.Live (trafficvision.live)

- **Type:** Interactive map and database service with user focused features
- **Key Learning:** AI takes time to discover things like humans (optimization) and needs to take similar approaches a human would. They may need to be guided towards a solution.

8. Instant Camera with Thermal Printer

- **Type:** Raspberry Pi with camera module, button, LED, 3D printed enclosure, and vibe coded software
- **Key Learning:** AI can assist with hardware prototyping and setup, not just software

💡 **Key Takeaway:** Don't limit yourself. If you think it should exist (no matter how silly), just try to create it. Vibe coding can make testing concepts easier than creating a mockup.

🧠 **Remember:** AI can help with more than just code - it can help prototype your hardware, organize your files, and much more.

Essential Vibe Coding Tools

Choose Your Level

Beginner: Browser-Based Tools

Best for first-time coders, quick prototypes, and learning the basics
No installation required - just open a browser and start

Chat Interfaces:

- **Claude.ai** - Advanced reasoning and coding
- **ChatGPT** - General purpose AI assistant
- **Gemini** - Google's multimodal AI

✅ Pros:

- No setup required
- Instant access from any device

- Great for learning and experimentation

✖ Limitations:

- Limited to simple projects
- Limited version control integration

💡 **Tip:** Start here to test ideas and learn prompting. When you're ready for real projects, move to intermediate or advanced tools.

Intermediate: Desktop Applications

Enhanced AI assistants with file system access

Best for document management, file organization, and basic coding tasks

Desktop Applications:

- **Claude Desktop** - Enhanced with file system access via MCP servers
- **ChatGPT Desktop** - Integrated workflow tools

✅ Pros:

- Full file system access
- Great for organizing files and documents
- MCP server support for extended capabilities
- Easy to use without coding experience

✖ Limitations:

- Not code-focused
- Slow file editing capabilities
- Not suited for complex development

💡 **Tip:** Desktop applications are excellent for organizing files and documents, and communicating with your computer in different ways beyond just coding.

Advanced: IDEs with AI Extensions & CLI (Command Line Interface) Tools

Professional development environments with powerful AI integration

Maximum power and flexibility for complex projects

AI Coding Tools:

All tools support full codebase understanding, git integration, MCP servers, and agents

Each available as both VS Code extension and standalone CLI

- **Claude Code** - Recommended for best overall quality and speed, especially for large projects
- **ChatGPT Codex** - Better at problem-solving with tricky bugs, but slower overall
- **Gemini Code Assist** - Recently updated with major improvements, great free option to get started

AI-Native IDEs:

- [Cursor](#)
- [Google Antigravity](#)

✅ Pros:

- Entire codebase context at once
- Powerful automation and agent capabilities
- Best for large refactoring and complex features
- Deep git integration
- Custom commands and workflows
- MCP server support for extended capabilities
- Professional development environment

❌ Limitations:

- More setup and configuration
- Steeper learning curve
- Requires understanding of general development practices
- Requires terminal comfort (for CLI tools)

💡 **Tip:** IDEs and CLI tools shine for large codebases and complex workflows. The investment in learning pays off quickly on real projects.

💡 **Tip:** Use Git version control! These tools make it easy to track changes, experiment safely, and collaborate professionally.

🧠 **Learn More:** See [Working with Claude Code](#) for commands and advanced techniques.

🧠 **Learn More:** See the [Extended AI Tools Directory](#) for more specialized vibe coding platforms, web-hosted autonomous agents, and more.

Specialized Platforms

Browser-based IDEs with instant deployment and unique capabilities

Great for all skill levels - combines ease of use with professional features

- [Replit](#) - Collaborative coding environment with instant deployment, built-in database, and AI assistant
- [v0.dev](#) - Vercel's AI design tool that generates React components from text descriptions
- [Bolt.new](#) - StackBlitz's AI web development with full-stack support and instant preview
- [Google AI Studio](#) - Prototype with Gemini models, including code generation and multimodal AI

✅ Pros:

- No local setup required
- Instant deployment and hosting
- Share projects with a single link
- Built-in collaboration features
- Professional capabilities in a browser

- Great for rapid prototyping

✖ Limitations:

- Platform-specific workflows
- Less control over infrastructure
- May have usage limits on free tiers
- Dependent on platform's continued existence

💡 **Tip:** These platforms are perfect for quickly building and sharing projects without worrying about deployment. Use them alongside other tools depending on your needs.

Tool Selection Framework

Ask yourself these questions:

1. **What are you building?** Simple tool/visual vs. complex app
 2. **What's your experience level?** Never coded vs. comfortable with code
 3. **What's your timeline?** Quick prototype vs. production-ready
 4. **What's your budget?** Free tier vs. paid subscription
 5. **Do you need automation?** Simple tasks vs. complex multi-step workflows
-

Core Approaches

The Vibe Coding Spectrum

All projects exist somewhere on this spectrum between two approaches:

Approach 1: Minimal Info → Iterative Refinement

Example: [Nerktendo](#)

How it works: Start broad, refine through back-and-forth conversation

✅ Pros:

- Great for exploring possibilities and experimenting
- Sparks creative directions you wouldn't think of
- Lower barrier to starting

✖ Cons:

- Takes more back-and-forth
 - May drift from original vision
 - Can be difficult to guide refinement with minimal info
-

Approach 2: Comprehensive Brief → Execute

Example: [DomainFlip](#)

How it works: Define everything upfront - features, style, structure, functions, rules, edge cases

✅ **Pros:**

- Faster to a feature-full, polished result
- Stays true to vision
- Better for complex requirements

❌ **Cons:**

- Requires knowing what you want
- Less room for discovery
- Harder for beginners to write good briefs (but use AI to help)

How to do it: Use an LLM (not a coding AI) to create comprehensive planning documents before you start coding.

DomainFlip workflow:

1. **Planning phase:** I described my idea with all the details I had to an LLM chatbot
2. **Document creation:** The AI asked clarifying questions, then developed 8 detailed documents covering:
 - Project overview and goals
 - Technical architecture
 - Design specifications
 - Feature requirements and edge cases
3. **Execution phase:** I fed all documents to Claude Code in a single prompt
4. **Result:** One hour later, the complete site was built exactly to spec

The key: comprehensive upfront documentation eliminates ambiguity and reduces iteration.

🎁 **Bonus:** Read through the [DomainFlip summary and build documents](#)

Finding Your Approach

Most projects fall somewhere in the middle. Weather Worsener and LinkPee are examples of balanced approaches.

💡 **Pro Tip:** Use an AI chatbot (not coding assistant) to plan your project in detail, then feed that plan to an AI coding agent. DomainFlip was created with only 1 Claude Code prompt, but it was fed 8 different multi page documents outlining the entire project in extreme detail.

Most of my examples are website related

Working with Claude Code

Getting Started

Requirement: Claude Pro/Max subscription or Enterprise access (API credits supported but not recommended)

Option 1: VS Code Extension

- 1. Open VS Code
- 2. Go to Extensions (Ctrl+Shift+X / Cmd+Shift+X)
- 3. Search for "Claude Code"
- 4. Click Install
- 5. Authenticate with your Claude account

Option 2: CLI Installation

Choose the installation method for your system:

macOS/Linux (Homebrew):

```
brew install --cask claude-code
```

Note: Requires [Homebrew](#) to be installed first

macOS/Linux/WSL:

```
curl -fsSL https://claude.ai/install.sh | bash
```


Windows (PowerShell):

```
irm https://claude.ai/install.ps1 | iex
```

Windows (CMD):

```
curl -fsSL https://claude.ai/install.cmd -o install.cmd && install.cmd && del install
```

Once installed, navigate to your project directory and run claude to start.

 **Learn More:** Read Anthropic's official [Claude Code Best Practices](#) guide for workflows, optimization tips, and advanced techniques.

Claude Code CLI Commands

Command	Purpose
claude	Start Claude in your terminal.
esc esc	Go back in conversation and code history.
/init	Review codebase and create CLAUDE.md documentation file for AI reference
#memory	Easily add to CLAUDE.md memory
/compact	Compact conversation to clear space while keeping some memory

Command	Purpose
/clear	Better space clearing but loses memory (or quit/restart Claude Code)
/usage	Check current usage level
/resume	Resume a previous conversation
/review	Code review

💡 **Tip:** Store important instructions in [CLAUDE.md](#) to prevent AI from doing unwanted things (overwriting data, unnecessary builds, etc.). [CLAUDE.md](#) files exist for your user and each individual project folder where you use Claude Code. Use this to your advantage - global knowledge vs project specific knowledge.

Essential Techniques

Interrupt When Needed

Sometimes AI goes off the rails. If you see it going down the wrong path, interrupt it, go back (double tap esc), and give better instructions. This saves memory and credits vs. correcting mistakes later. AI is bad at remembering what it did wrong.

Self-Checking

Ask your AI to check its own (or your) work for bugs and see if there's room for improvement. Optimizing for resources and speed is generally good (unless it isn't).

Working Through Stubborn Bugs

When you have a bug AI can't solve after multiple attempts:

1. Use Claude thinking levels: think, think hard, think harder, ultrathink
2. Try a different coding agent (e.g. ChatGPT Codex)
3. Ask 2 different AIs the same question
 1. Give each AI the other's response for analysis
 2. Have both provide updated plans
 3. Give both responses to a new agent for comprehensive summary
 4. Have another new agent read and implement the solution

Debugging Workflow

AI agents fix issues best when given all relevant information:

1. Use browser DevTool Console to look for errors and warnings: AI agents love reading errors and warnings
2. Copy and paste HTML from the DevTool Element Inspector if unsure how to describe an issue
3. Describe what you want and what the issue is in detail
4. Provide full context especially if debugging in a fresh conversation

Advanced Features

Claude Agents (Tasks)

Multiple Claude Code instances using skills and tools to autonomously complete complex workflows in parallel.

Use case: Analyze reports or data sources simultaneously

How to use: Just ask Claude to start some agents (tasks)

Custom Commands

Shortcuts for common workflows without detailed descriptions each time.

Use case: Super helpful for scraping and cleaning data

Examples: `/new-source` and `/commit` (TrafficVision.Live)

Git Worktrees

Git worktrees let you work on multiple branches simultaneously without switching contexts or creating separate repository clones.

What it solves: Working on a feature while needing to quickly fix a bug on main, or testing different approaches side-by-side

How to use:

1. Create a new worktree:

```
git worktree add ../project-feature-branch feature-branch-name
```


1. Claude Code can work across worktrees simultaneously
2. Each worktree maintains its own working directory and branch
3. Shared git history means commits from any worktree are available everywhere

Use cases:

- Developing a new feature while maintaining production bug fixes
- Testing multiple implementation approaches in parallel
- Code review without disrupting your current work
- Running different versions for comparison testing

Clean up when done:

```
git worktree remove ../project-feature-branch
```

 **Tip:** Name worktree directories clearly (e.g., `project-name-feature-name`) to avoid confusion when multiple Claude Code instances are running.

💡 **Tip:** If worktrees are confusing to you (or if any advanced workflow is), ask Claude to do it for you and teach you along the way.

MCP Servers

Model Context Protocol (MCP) servers extend Claude's capabilities by connecting to external tools, APIs, databases, and services through a standardized protocol.

What it is: An open standard that lets AI assistants securely connect to external data sources and tools without custom integrations for each service.

Why use it:

- Access real-time data beyond Claude's training cutoff
- Connect to your tools (GitHub, Slack, databases, file systems)
- Automate workflows across multiple services
- Get specialized functionality (web search, documentation, browser control)

Common MCP Servers:

- **Filesystem** - Read/write local files with permission-based access
- **GitHub** - Manage PRs, issues, and repository operations
- **Puppeteer** - Browser automation and web scraping
- **Context7** - Up-to-date library documentation with version-specific references
- **Brave Search** - Real-time web search results
- **Sequential Thinking** - Break down complex tasks into structured steps
- **Google Drive** - Access and manage Drive documents
- **Slack** - Send messages and interact with Slack workspaces

Installation - Claude Desktop:

1. Install Node.js if needed: `brew install node` (macOS)
2. Navigate to Settings → Extensions in Claude Desktop
3. Click "Browse extensions" to install from directory (one-click)

Installation - Claude Code:

```
# Add server with user scope (available in all projects)
claude mcp add github --scope user

# Add with environment variables
claude mcp add -e API_KEY=your_key servername -- npx @org/server

# List configured servers
claude mcp list

# Check server status
/mcp
```

Configuration Scopes:

- **Local** (default) - Only available in current directory
- **User** (`--scope user`) - Available globally across all projects
- **Project** (`.mcp.json`) - Shared with team via version control

💡 **Tip:** Use user scope for personal tools, project scope for team-shared servers. After adding servers, restart Claude Desktop or Claude Code to activate them.

Config File Locations:

- **macOS:** `~/Library/Application Support/Claude/claude_desktop_config.json`
- **Windows:** `%APPDATA%\Claude\claude_desktop_config.json`
- **Claude Code:** `~/.claude.json` (user scope) or `.mcp.json` (project scope)

Finding More Servers:

- Official servers: github.com/modelcontextprotocol/servers
- Community directory: mcp.so
- Smithery: smithery.ai

Beyond Coding

Claude and other AI agents can help with more than just code if they have access to the right tools:

- File and document organization
- Obsidian integration through filesystem
- Note analysis and knowledge management
- Similar capabilities to IDE integration

Project Ideas

Simple Projects

These starter prompts are to give you ideas. Change them to your liking.

To-Do List

Starter Prompt:

Create a to-do list app with the following features:

- Add, edit, and delete tasks
- Mark tasks as complete with a checkbox
- Filter view by "all", "active", and "completed"
- Tasks persist in localStorage

Use vanilla JavaScript or React, make it clean and minimal with a soft color palette

Habit Tracker

Starter Prompt:

Build a habit tracker that lets users:

- Add custom habits to track
- Mark habits as complete for each day
- Show a 7-day streak calendar view
- Calculate and display current streak

Use a grid layout with green checkmarks for completed days. Make it motivating and v

Custom Calculator

Starter Prompt:

Create a calculator with:

- Basic operations (+, -, ×, ÷)
- Clear and backspace functions
- Keyboard support for number entry
- Display for current input and result

Style it like a modern iOS calculator or create a retro/vintage aesthetic. Add smooth

Basic Game

Starter Prompt:

Build a simple guessing game where:

- Computer picks a random number between 1-100
- Player gets hints ("higher" or "lower") after each guess
- Track number of attempts
- Show win message and option to play again

Make it colorful and fun with emoji reactions to guesses. Add a difficulty selector

Medium Projects

Weather App

Starter Prompt:

Build a weather app that includes:

- Feature 1: Search for any city and display current weather
- Feature 2: 5-day forecast with high/low temperatures
- Feature 3: Display weather icons, humidity, wind speed, and "feels like" temp
- Feature 4: Geolocation to auto-detect user's location

Design should be clean and modern with weather-appropriate background gradients (sun

Use OpenWeatherMap API or WeatherAPI.

Target audience: anyone who wants quick weather info at a glance

Portfolio Website

Starter Prompt:

Build a personal portfolio website that includes:

- Feature 1: Hero section with animated introduction and call-to-action
- Feature 2: Project showcase with filtering by technology/category
- Feature 3: About section with skills visualization (progress bars or icons)
- Feature 4: Contact form with email integration (EmailJS or similar)
- Feature 5: Dark/light mode toggle

Design should be modern and professional with smooth scroll animations and transitions.

Use React or Next.js with Tailwind CSS.

Target audience: potential employers and clients

Pomodoro Timer App

Starter Prompt:

Build a productivity timer app that includes:

- Feature 1: 25-minute work sessions with 5-minute breaks
- Feature 2: Customizable timer durations
- Feature 3: Audio notification when timer completes
- Feature 4: Session counter and daily statistics
- Feature 5: Pause, resume, and reset controls

Design should be minimalist and distraction-free with a large, readable timer display.

Add ambient background sounds (optional toggle).

Target audience: students and remote workers seeking better focus

Recipe Finder

Starter Prompt:

Build a recipe search app that includes:

- Feature 1: Search recipes by ingredient or dish name
- Feature 2: Filter by dietary restrictions (vegetarian, vegan, gluten-free)
- Feature 3: Display recipe details including ingredients, instructions, and cook time
- Feature 4: Save favorite recipes to localStorage
- Feature 5: Random recipe generator for inspiration

Design should be warm and inviting with food photography and card-based layouts.

Use Spoonacular API or Edamam API.

Target audience: home cooks looking for meal ideas

Complex Projects

Real-Time Chat App

Starter Prompt:

Build a chat application where users can message each other in real-time with these

Core Features:

- User accounts with secure registration and login
- Instant messaging that updates without refreshing the page
- Multiple chat rooms or channels for different conversations
- See who's online/offline right now
- "User is typing..." indicators
- Message history that loads older messages as you scroll up
- Timestamps showing when each message was sent
- Read receipts (checkmarks when messages are seen)
- Emoji picker for reactions
- Ability to upload and share images/files

User Experience:

- Clean, modern interface similar to Discord or Slack
- Sidebar showing all available channels
- Main chat area for conversation
- Works smoothly on both desktop and mobile
- Fast and responsive – messages appear instantly

Technical Requirements:

- Secure authentication and password storage
- Protect against common security issues
- Store all messages and user data in a database
- Deploy the app so others can access it online

Target audience: Teams, friend groups, or communities who want their own private chat

Restaurant Reservation System

Starter Prompt:

Build a restaurant reservation platform where customers can book tables and restaurants

Customer Features:

- Browse restaurants with photos, menus, and descriptions
- Search and filter by cuisine type, location, and price range
- Interactive calendar showing available reservation times
- See real-time availability (which time slots are open)
- Book a table by selecting date, time, party size, and adding special requests

- Receive email confirmation immediately after booking
- Get SMS reminder 24 hours before the reservation
- Personal dashboard to view, modify, or cancel upcoming reservations
- Works perfectly on mobile phones for booking on-the-go

Restaurant Owner Features:

- Admin panel to view all bookings for their restaurant
- Manage table capacity and available time slots
- See booking details (party size, special requests, contact info)
- Prevent double-booking automatically
- Update restaurant information, photos, and menu

User Experience:

- Elegant, trustworthy design similar to OpenTable or Resy
- High-quality imagery that makes restaurants look appealing
- Fast loading and smooth interactions
- Handle different time zones correctly

Technical Requirements:

- Secure login for both customers and restaurant owners
- Store all restaurant data, bookings, and user accounts safely
- Send automated emails and SMS notifications
- Deploy online so anyone can use it

Target audience: Diners looking for an easy way to book tables, and restaurant owners

Interactive Data Visualization Dashboard

Starter Prompt:

Build an analytics dashboard that turns data into beautiful, interactive visualizations

Core Features:

- Display data in multiple chart types: line graphs, bar charts, pie charts, and heatmaps
- Click and interact with charts to explore details
- Filter data by date ranges (today, last week, last month, custom range)
- Watch data update live in real-time as new information comes in
- Upload data from CSV or JSON files
- Export visualizations and data to PDF or CSV
- Customize the dashboard layout by dragging and dropping different widgets
- Works smoothly on tablets and desktop computers

Data Management:

- Store historical data so you can analyze trends over time
- Handle large datasets without slowing down
- Automatically calculate key metrics and trends
- Refresh data on a schedule (hourly, daily, etc.)

User Roles:

- Viewers: can only see dashboards
- Editors: can modify dashboards and settings
- Admins: full control over users and data

User Experience:

- Professional interface similar to Google Analytics or Tableau
- Clear visual hierarchy showing what's important
- Intuitive controls that are easy to understand
- Fast performance even with lots of data
- Helpful loading states and error messages

Technical Requirements:

- Secure user authentication with different permission levels
- Store data in a reliable database
- Deploy online for team access

Example use cases:

- Sales dashboard showing revenue, top products, and customer trends
- Social media analytics tracking engagement and follower growth
- IoT sensor monitoring for temperature, humidity, or equipment status

Target audience: Business teams, data analysts, or anyone who needs to understand the

Employee Shift Scheduler

Starter Prompt:

Build a smart shift scheduling system that creates fair schedules automatically while

Staff Management:

- Add employees with their qualifications (certifications, skills, roles)
- Set each person's availability for every day of the week and their shift preferences
- View each employee's upcoming schedule and total hours

Automatic Scheduling:

- Generate schedules automatically that:
 - Only assign people when they're available
 - Match qualifications to shift requirements
 - Balance workload fairly across multiple weeks (not just one week at a time)
 - Avoid scheduling someone for multiple shifts on the same day
 - Respect people's preferences when possible
 - Track historical fairness so everyone gets their preferred shifts over time

Shift Templates:

- Create recurring weekly shift patterns (morning, afternoon, night, weekend)

- Define how many people are needed for each shift
- Specify what qualifications are required
- Handle shifts that span multiple days

Schedule Management:

- View schedules across multiple weeks at once
- Manually adjust assignments if needed (drag and drop)
- Clear entire weeks and regenerate schedules
- Remove individual assignments and fill them automatically
- See visual warnings for conflicts or issues

Fairness Dashboard:

- Show how fairly preferences have been fulfilled across past weeks
- Look ahead to see projected fairness for future schedules
- Adjust the time window (1-12 weeks) to analyze different periods
- Visual indicators for workload balance and preference scores

User Experience:

- Clean, professional interface focused on clarity
- Color coding for different shift types
- Visual indicators showing workload balance
- Easy to spot scheduling conflicts
- Export schedules to PDF or CSV for printing/sharing
- Works on desktop and tablet

Technical Requirements:

- Store all staff data, shifts, and schedules in a database
- Smart algorithm that creates fair, conflict-free schedules
- Fast performance even with many employees and weeks of data

Target audience: Small business managers, healthcare facilities, retail stores, or a

Bonus Challenge

Open Source Contribution Challenge

Take a project that you use from GitHub, come up with an improvement, and submit a PR (pull request).

How to get started:

1. Find a project on GitHub that is interesting or useful to you
2. Set up the project locally and explore the codebase
3. Pick an existing issue or come up with an improvement (bug fix, feature, documentation, tests)
4. Fork the repo, create a branch, and make your changes
5. Write clear commit messages and test your changes
6. Submit a pull request with a detailed description

This teaches you about:

- Reading and understanding existing codebases
- Contributing to open source communities
- Professional collaboration workflows
- Git and version control best practices
- Code review process and feedback incorporation

Recommended platforms to find projects:

- GitHub Explore (github.com/explore)
- First Timers Only (firsttimersonly.com)
- Good First Issue (goodfirstissue.dev)
- Up For Grabs (up-for-grabs.net)

Submitting Your Workshop Project

Share your work! The workshop repo is a living archive of our projects.

View submission instructions at: eisenbruch.github.io/vibe-coding-workshops

Your AI assistant can guide you through the Git/GitHub process.



Extended AI Tools Directory

⚠ **Note:** Projects shut down and get acquired frequently. Some tools may no longer exist.

Vibe Coding & Development Tools

Claude Code - claude.ai/code

Terminal-based AI coding assistant with full codebase context, git integration, and MCP server support

Gemini Code Assist - codeassist.google

Google's AI coding assistant available as IDE extension and CLI, recently updated with major improvements

Google Antigravity - antigravity.google

Agentic development platform with autonomous agents and Manager View for coordinating AI workflows

Google AI Studio - aistudio.google.com

Google's platform for prototyping with Gemini models, including code generation

v0.dev - v0.dev

Vercel's AI tool for generating React components and UI designs from text descriptions

Bolt.new - bolt.new

StackBlitz's AI web development platform that builds and deploys full-stack apps instantly

ChatGPT Codex - chatgpt.com/codex

OpenAI's code-specialized model integrated into ChatGPT for code generation and understanding

Cursor - cursor.com

AI-native code editor built on VS Code with chat, inline editing, and codebase understanding

GitHub Copilot - github.com/features/copilot

AI pair programmer integrated into VS Code, JetBrains IDEs, and other editors

Windsurf - codeium.com/windsurf

AI-powered IDE with Cascade flows for multi-file editing and autonomous task completion

Supermaven - supermaven.com

Fast AI code completion with 1 million token context window

Aider - aider.chat

Command-line AI coding assistant that edits code in your local git repository

Replit - replit.com

Collaborative browser-based IDE with AI assistance, instant deployment, and multiplayer coding

Image Generation & Editing

Google Nano Banana - aistudio.google.com

One of the newest and best image generation and editing models.

Midjourney - midjourney.com

Discord-based platform creating high-quality artistic images from text prompts

DALL-E - openai.com/dall-e

OpenAI's image generator for detailed images from natural language

Decohere - decohere.ai

Generates characters, images, and videos from text and image prompts

Stability AI - stability.ai

Creator of Stable Diffusion for multimodal generative AI

Catbird - catbird.ai (*Defunct*)

Multi-model generator creating images from 15+ AI models simultaneously

Leonardo.ai - leonardo.ai

Fine-tuned models for game assets, concept art, and production visuals

Foocus - [GitHub](https://github.com)

Open-source Stable Diffusion interface with advanced inpainting

AUTOMATIC1111 - [GitHub](https://github.com)

Popular web interface for Stable Diffusion with extensive features

Adobe Express Background Remover - adobe.com

Free AI tool for instant background removal with transparent PNG output

Video Generation & Editing

Runway - runwayml.com

Advanced AI video platform with Gen-4 models for text/image-to-video

HeyGen - heygen.com

AI avatar platform for professional spokesperson videos

Pika - pika.art

AI video generator creating cinematic clips up to 10 seconds

Adobe Firefly Video - firefly.adobe.com

Text/image-to-video with 1080p output and commercially safe generation

Hailuo AI - hailuoai.video

Chinese AI video generator creating 5-6 second HD videos

Google Veo 3 - deepmind.google

Advanced video generation with 8-second clips and synchronized native audio

Google Flow - labs.google/fx/tools/flow

Google's experimental video generation tool from Google Labs FX

Hedra - hedra.com

Specializes in talking avatar generation with realistic lip-sync

Synthesia - synthesia.io

AI presenters for training videos and marketing content

Switchlight - switchlight.beeble.ai

AI-powered video relighting tool with PBR maps

Adobe Express Video Background Remover

- adobe.com

Remove video backgrounds with transparent MP4 output

VideoBGRemover - videobgremover.com

Professional background removal for videos up to 3 hours

Innova AI Video Background Removal -

Hugging Face

Free background removal and replacement tool

Higgsfield - higgsfield.ai

Video and image generation with a focus on impossible effects and transitions

Audio & Music

Hume - hume.com

Text-to-speech and speech-to-speech editor with voice cloning and developer APIS for analyzing emotional expression and generating expressive speech.

Descript - descript.com

All-in-one editor with text to speech, voice cloning, AI transcription and text-based editing

ElevenLabs - elevenlabs.io

Advanced AI voice cloning and text-to-speech in 30+ languages

Suno - suno.ai

AI music generation with vocals and instruments from text

Udio - udio.com

Professional-quality music tracks from text descriptions

Adobe Podcast Enhance -

podcast.adobe.com

AI audio enhancement removing background noise

AI Chat & Search

Perplexity - perplexity.ai

AI-powered search with sourced answers and citations

Maple.ai - trymaple.ai

Privacy-focused with end-to-end encryption and confidential computing

DeepSeek - deepseek.com

Chinese open-source AI with powerful reasoning (R1 model)

Venice.ai - venice.ai

Privacy-focused uncensored AI with local data storage

Z.ai Chat - chat.z.ai

Free AI chatbot with presentation generation and multimodal capabilities

AI Infrastructure & Development

Replicate - replicate.com

Cloud platform for running open-source AI models via API

Groq - groq.com

Ultra-fast AI inference with custom LPU chips

Hugging Face - huggingface.co

The GitHub of AI - hub for models, datasets, and applications

Chutes.ai - chutes.ai

Decentralized serverless AI compute platform

3D & Spatial

Depth Anything V2 - [GitHub](https://github.com)

Monocular depth estimation for 3D reconstruction

Luma Labs - lumalabs.ai

Interactive 3D scenes using NeRF and Gaussian Splatting

Hyper3D (Rodin AI) - hyper3d.ai

Production-ready 3D models from text or images

Brush - [GitHub](https://github.com)

Open-source 3D reconstruction with Gaussian Splatting

Tripo3D - tripo3d.ai

Fast 3D asset generation in ~10 seconds

COLMAP - colmap.github.io

Open-source photogrammetry pipeline for 3D reconstruction

TRELLIS - [Hugging Face](https://huggingface.co)

Microsoft's 3D generation with Radiance Fields and meshes

RealityScan - realityscan.com

Professional photogrammetry by Epic Games

HitPaw 3D (Hitem3D) - hitem3d.ai

Ultra-high resolution 3D models from single images

Postshot - jawset.com

Desktop app for training NeRF and Gaussian Splatting locally

Agentic Browsers

AI-native browsers that autonomously navigate websites, complete tasks, and execute workflows.

BrowserOS - github.com/browseros-ai/BrowserOS

BrowserOS is an open-source chromium fork that runs AI

agents natively. Your open-source, privacy-first alternative to ChatGPT Atlas, Perplexity Comet, Dia.

ChatGPT Atlas - chatgpt.com/atlas

ChatGPT in a browser with memory and automation abilities

Perplexity Comet - perplexity.ai/comet

AI-first browser with autonomous task execution and integrated search

Opera Neon - operaneon.com

Premium agentic browser with Chat, Do, and Make functions

Fellou - fellou.ai

Self-driving browser with deep search and agentic memory

Sigma AI Browser - sigmabrowser.com

Privacy-first with end-to-end encryption and Deep Research mode

Dia Browser - diabrowser.com

Tab-aware assistant with Skills system and natural language commands

Specialized Tools

ComfyUI - comfy.org

Node-based workflow platform for multiple AI model types

Cascdr - cascdr.xyz

Bitcoin Lightning-powered AI workflow platform

Manus.im - manus.im

Browser-based AI agent platform for autonomous tasks

Genspark - genspark.ai

Many AI tools in one chatbot

Browserbase - browserbase.com

Developer infrastructure for headless browsers and AI agents

Resources & Support

For more resources, tutorials, and support, visit the workshop materials repository or reach out.

<https://github.com/eisenbruch/vibe-coding-workshops>
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