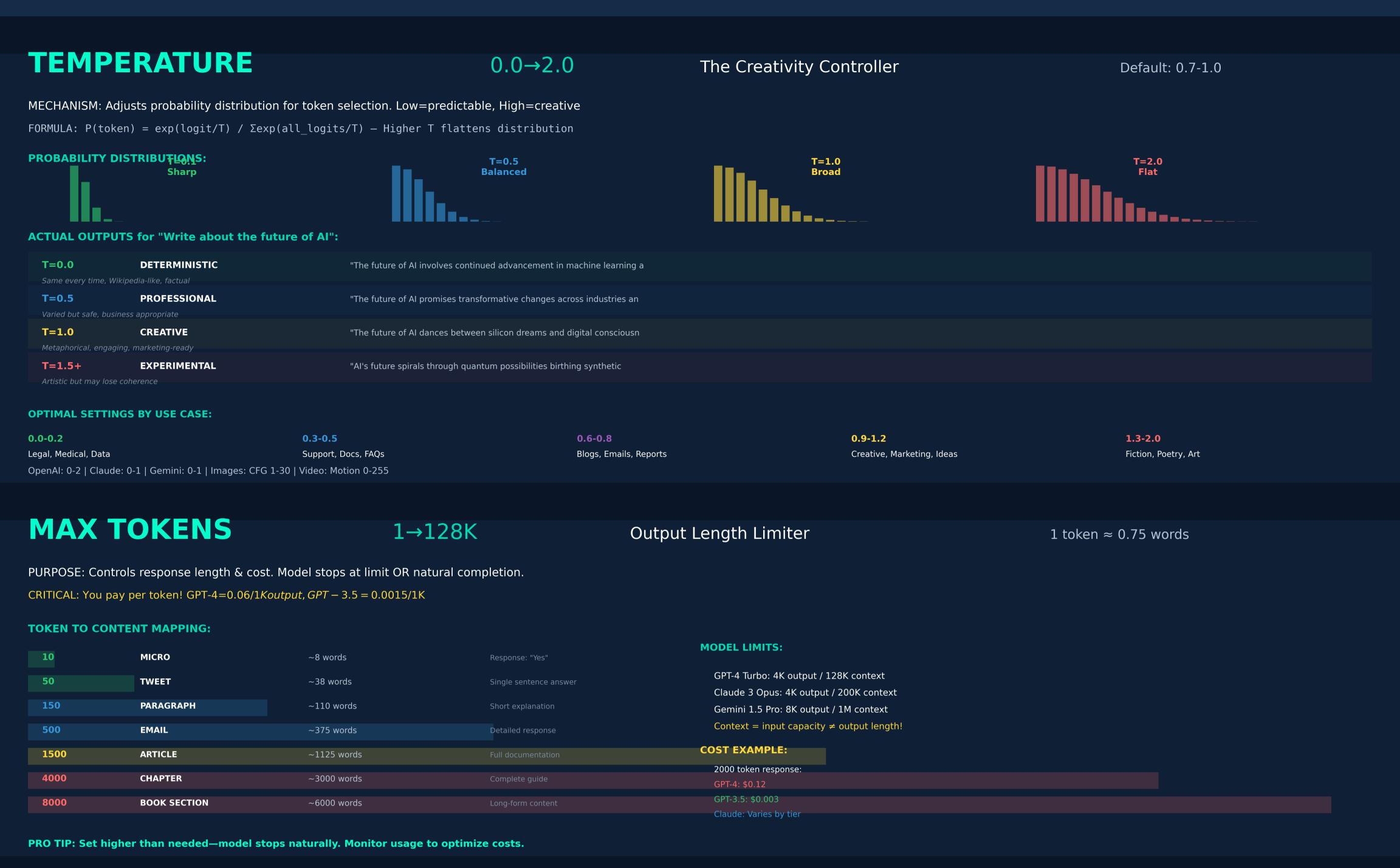
AI SAMPLING PARAMETERS MASTERY GUIDE





Dynamic vocabulary via cumulative probability

TOP P (NUCLEUS)

HOW P=0.9 WORKS:

blue	40%	Σ=40%	✓ INCLUDED	
azure	30%	Σ=70%	✓ INCLUDED	
cyan	15%	Σ=85%	✓ INCLUDED	
teal	8%	Σ=93%	X EXCLUDED	
navy	4%	Σ=97%	X EXCLUDED	
other	3%	Σ=100%	X EXCLUDED	
SETTINGS:				
P=0.1: Top 10% only Ultra focused		P=0.5: Top 50% Balanced	P=0.9: Top 90% Creative	P=1.0: Everything Max variety

TOP K

1. blue

5. navy

Prevent Redundant Output

Fixed vocabulary limit regardless of probability

HOW K=5 WORKS:

2. azure ✓ INCLUDED 3. cyan ✓ INCLUDED 4. teal ✓ INCLUDED

✓ INCLUDED

✓ INCLUDED

— CUT OFF — **SETTINGS: X EXCLUDED**

K=inclineedy | K=10: Limited | K=40: Natural | K=100 UWide

OpenAI doesn't support K. Use P instead! 8. sapphire **X EXCLUDED**

REPETITION PENALTIES

WHY: Al tends to repeat. These penalties force vocabulary diversity.

FREQUENCY OpenAl -2 to 2 Counts occurrences "very very" \rightarrow "extremely" **PRESENCE** OpenAl -2 to 2

REPETITION

3 Types

Claude/Gemini 0 to 2 Single parameter

LOW: "The cat was extremely happy" Natural repetition allowed HIGH: "That feline seemed remarkably euphoric"

May feel unnatural

IMAGE & VIDEO GENERATION PARAMETERS

IMAGE GENERATION

EFFECT DEMONSTRATION:

OFF: "The cat was very very happy"

MED: "The feline was remarkably joyful"

CFG SCALE → Higher=stricter but artifacts >15 **STEPS** → Quality vs time tradeoff SEED → Save for consistent style **SAMPLER** → Affects aesthetic style

1-30 (7.5 default) 10-150 (30-50 optimal) -1 or specific number

Euler a, DPM++, DDIM

Prompt adherence strength Denoising iterations Reproducibility control Algorithm selection

Clear diversity

VIDEO GENERATION

MOTION → 100=natural, 255=chaotic **FPS** → 24=cinematic standard **DURATION** → Exponential compute cost INIT STRENGTH

→ For img2vid/vid2vid

0-255 8-60 2-16 seconds

0-1

Movement intensity Frame rate Clip length Source influence

QUICK START: Temp=0.7 | MaxTokens=1000 | TopP=0.9 | RepPenalty=1.1



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