

# GENELINGUA v7

## Comprehensive DNA + AI Language Learning Report

**User:** unknown  
**Ancestry:** N/A  
**DNA Percentile:** 50th percentile  
**Z-Score:** +0.00  
**Generated:** N/A

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## ■ EXECUTIVE SUMMARY

**Your Genetic Profile:** Average (50.0th percentile)

**Key Takeaway:** Your genetics account for approximately 2-4%% of language learning variance. Study method, time invested, and motivation are 20-50x more impactful.

**Recommended Focus:** Prioritize evidence-based methods (comprehensible input, spaced repetition) over genetic optimization.

**Time to B2 Fluency:** 12.1 months with 2 hours/day of optimal practice.

## ■ ■ SCIENTIFIC LIMITATIONS

- No validated 'language learning PGS' exists. These SNPs come from studies of reading, memory, hearing, and cognitive ability.
- Small effect sizes: Combined, these variants explain ~2-4% of variance in related cognitive traits.
- Ancestry matters critically: Most studies are European-ancestry. COMT shows opposite effects in East Asian populations.
- Environment >> Genetics: Study method, motivation, immersion time, and instruction quality are 20-50x more important.
- Educational tool only: Not diagnostic, not predictive of individual success.

## ■ POLYGENIC SCORE RESULTS

**Raw Score:** 0.0000

**Z-Score:** +0.000

**Percentile:** 50.0%

**Category:** Average

**Valid SNPs:** 0 / 0

**Estimated R<sup>2</sup> (variance explained):** 0.00%

## ■ INTERPRETATION

**Category:** N/A

**What this means for you:**

# ■ VISUAL ANALYTICS

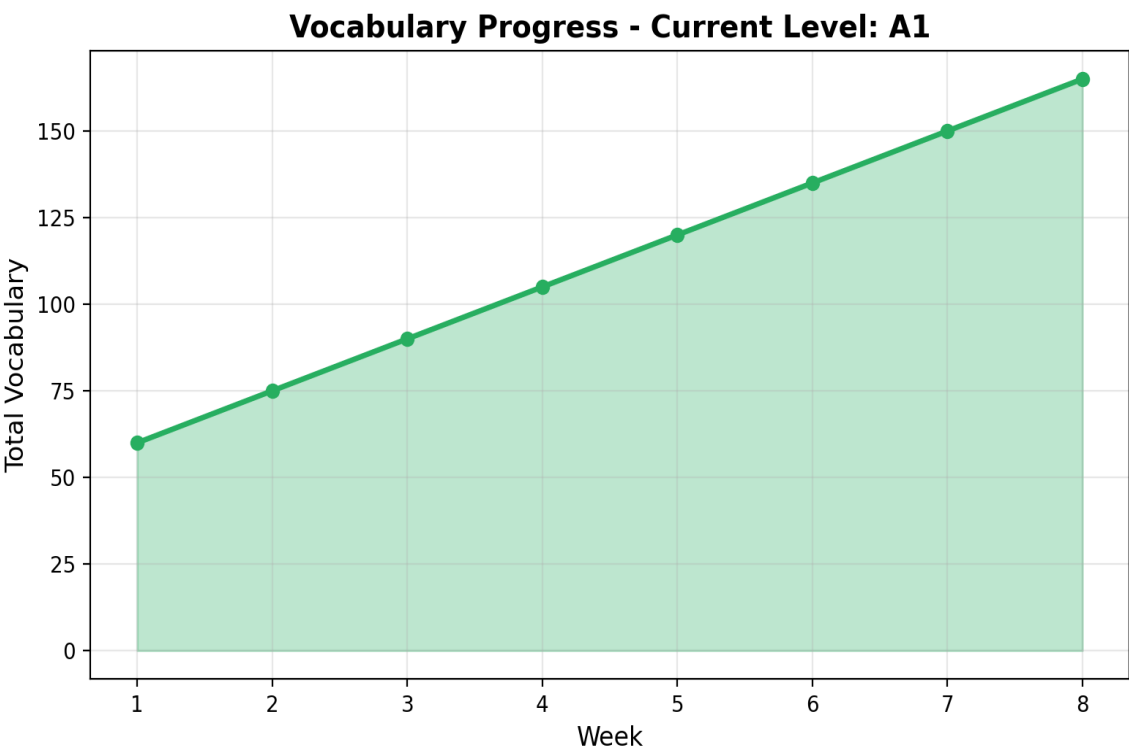
This section contains all charts and visualizations from your analysis.

## ■ DNA Analysis Visualization

DNA visualization will be generated after processing.

## ■ Progress Projection

Estimated time to B2 level: 12.1 months with consistent practice



This chart projects your language proficiency level over time based on consistent daily practice.

# ■ GENETIC DETAILS

## Top Genetic Contributors

### Complete SNP Contributions Table

SNP	Gene	Geno	Dose	Beta	Contrib	Evidence
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# ■ LEARNING TIME SCENARIOS

Time to reach B2 level (conversational fluency) under different conditions:

Scenario	Genetics	Method	Daily Min	Hours	Months
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**Key Insight:** Notice how 'Bottom 10% genetics + optimal method' beats 'Top 10% genetics + poor method' by 10+ months. This shows the real-world importance of study method vs. genetics.

# ■ YOUR PERSONALIZED STUDY PLAN

## Your Recommended Approach

**Focus:** Balanced

### Study Blocks:

- 70min input
- 20min SRS

## Evidence-Based Framework

### The 70-20-10 Framework (2 hours/day)

#### 1. Comprehensible Input (70% = 84 min/day)

- Listening: Podcasts, YouTube, audiobooks at 90%% comprehension level
- Reading: Graded readers → native materials with popup dictionaries
- Focus: Volume over perfection. Aim for 10+ hours/week of input

#### 2. Explicit Study (20% = 24 min/day)

- SRS (Anki): 15 min/day of sentence mining or frequency-based decks
- Grammar: 10 min/day learning patterns in context
- Pronunciation: 5 min shadowing or phonetic drills

#### 3. Production Practice (10% = 12 min/day)

- Speaking: iTalki tutors, language exchange, or shadowing
- Writing: Journaling with corrections

### Factors that predict success (sorted by effect size):

- Total hours of practice ( $R^2 \approx 0.40-0.60$ )
- Quality of input ( $R^2 \approx 0.15-0.25$ )
- Age of acquisition ( $R^2 \approx 0.10-0.20$  for pronunciation)
- Working memory ( $R^2 \approx 0.05-0.10$ )
- Motivation & persistence ( $R^2 \approx 0.05-0.10$ )
- Your genetic variants ( $R^2 \approx 0.02-0.04$ )

**Translation:** If you score at the 10th genetic percentile but study 2 hours/day with good methods, you'll surpass someone at the 90th percentile who studies 30 min/day poorly.



## ■ TODAY'S PERSONALIZED LESSON

### Vocabulary Words (Japanese):

- ■■■■■■ – meeting
- ■■■ – team
- ■■■■■■ – programming
- ■■ – development
- ■■ – work
- ■■■■■■ – project
- ■■■ – task
- ■■ – goal
- ■■ – report

## Practice Sentences:

- 
- | Rank | Language | Mentions |
|------|----------|----------|
| 1.   |          | 3        |
| 2.   | Python   |          |
| 3.   |          |          |
| 4.   |          |          |
| 5.   | Python   |          |
| 6.   |          |          |