# 2. Quick Start

This section introduces you to the Mango Cryptographic Workbench. It provides a hands-on interface where you can build and test your own cryptographic sequences using a set of atomic transforms. While later sections cover automated sequence discovery, this chapter focuses on the manual process to help you understand how the system works from the ground up.

## 2.1 Launching Mango

To get started, navigate to the Workbench's output directory and launch Mango:

cd Workbench/bin  
Mango.exe

## 2.2 Building a Transform Sequence

Once Mango is running, you'll see a command prompt. You can begin creating a transform sequence by entering numbers from 1 to 25 — each number corresponds to a specific transform. Enter as many or as few as you like to construct a chain.

Example:

5  
12  
18

This builds a three-transform sequence composed of transforms 5, 12, and 18.

## 2.3 Executing Your Sequence

Once your sequence is ready, you can execute it against the currently selected input type by entering:

run sequence

Mango will process the input using your custom sequence and then output a summary of cryptographic metrics. This helps you understand how well your sequence performs in terms of entropy, avalanche, key sensitivity, and more.

[Insert image of results screen here]

## 2.4 Other Useful Commands

While experimenting, the following commands will be helpful:

* **`clear sequence` —** Clears the current transform sequence so you can start fresh.
* **`set InputType <type>` —** Sets the data classification to use. Options are: **Combined, Random, Sequence, or Natural.**
* **`help` —** Displays a list of available commands.
* **`list` —** Displays your current configuration, including **InputType** and active sequence.

## 2.5 Comparing Mango to AES

Once you've built a sequence you're satisfied with, you can run a comparative benchmark against AES using:

run comparative analysis

This will evaluate the performance of your custom sequence against native AES encryption across all core metrics. It's a great way to visualize the strengths (or weaknesses) of the sequence you've built.

Keep in mind that while manual exploration can be insightful, there are far too many combinations of transforms and sequence lengths for a human to identify optimal 'god-sequences'. Mango includes powerful automation tools for discovering and refining high-performance sequences, which will be covered in later chapters.