

# VALIDATION WITH SCHEMAS

*Four different types of schemas*

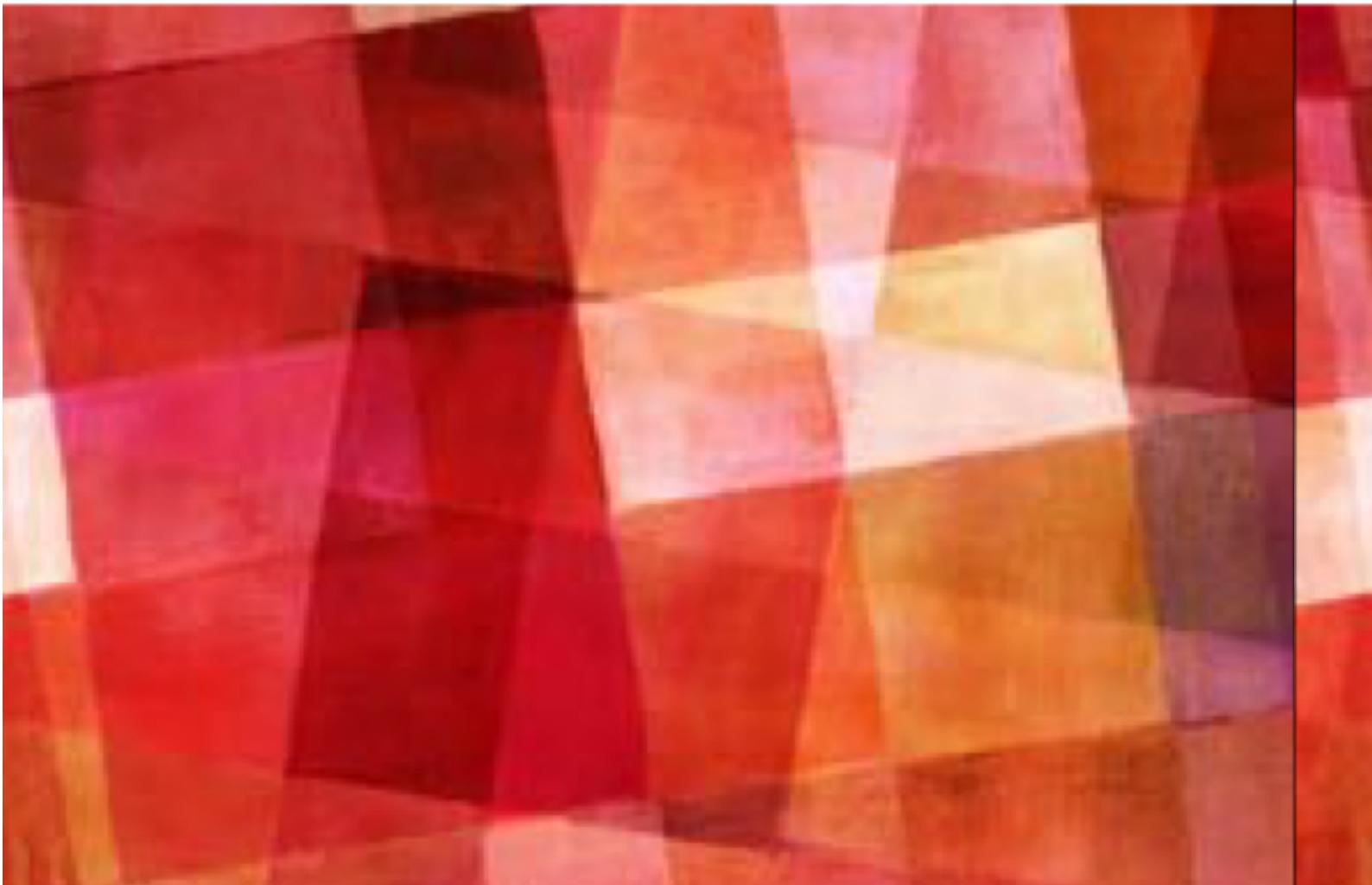
# SCHEMAS...

- Allow us to check that a document is not only well-formed, but valid
- Define a set of predetermined, usually project-specific rules for XML documents (the exception would be if you used one of the TEI-C's pre-made schemas, like TEI All or TEI Lite)
- Vary dramatically based on their type; for this reason, we will simply play with four different types today and try to figure out what makes them tick

## **DTD (DOCUMENT TYPE DEFINITION)**

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- Pre-dates XML
- Benefits include its simplicity and its compact nature
- Can also be used to define character entities



# XML SCHEMA

- Unlike DTD, XML schemas use the XML syntax
- Can perform more complex type checking on documents; for instance, where a DTD can only check whether or not there is a date, XML Schema can check that a date is actually a gYear
- Has the reputation for being difficult to understand



# RELAX NG

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- Stands for “REgular LAnguage for XML Next Generation”
- Comes in a regular and a compact syntax (we'll play with the compact syntax today)
- Intended to be easy to learn

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- Is rule-based rather than grammar-based, like the rest of the examples we're looking at today
- Allows you to specify more complex rules for validating documents

