HL7			Health Level 7 : ISO and ANSI standard (7 from the OSI 7th layer)
			Based on message paradigm. Trigger events
	Segments		Message line corresponding to one type of info
		MSH	Message Header : contains type and trigger events
		DF 1	DF separator
		DF 2	Other separators
		DF 3 → 6	Receiving/Sending apps/app instances
		DF 9	Msg Type & Trigger Event
		DF 10	Msg control ID
		DF 11	Msg processing ID (Debugging, Production, Training) or mode (Archive, Restore…)
		DF 12	HL7 version
		PID	
		EVN	
	Data Fields		Compose the segments. Separated by "|" (pipe)
		Components	Compose the data fields. Separated by the "^" (carret). Repetition by ~ (tilde)
		SEQ	Sequence : position of the DF
		LEN	Max length of DF
		Optionality	R required O optional C Conditional
		DT	Data types
		ST	String
		DT	Date
		TM	Time
	Types		
		ADT	Admission Discharge Transfer
		A01, A02,…	Event types (transfer, register, update etc…)
		ACK	General acknowledgment
		AA, AE, AR	App Accept, App Error, App Reject
		CA, CR, CE	Commit Accept, Commit Reject, Commit Error
		ORM	Order Message
		ORR	Order Ackwnowledgment
		ORU	Observation Result/unsolicited
		QRY	Query (request)
		SIU	Scheduling Information Unsolicited

	BAR	Biling Account Record
	DFT	Detailed Financial Situation
XML		Extensible Markup Language
UML		Unified Modeling Language
	Use case	Describe actors, responsibilities, situations
	Sequence diagram	Define transfer mode
	Activity Diagram	Detail message exchanges
DTD		Document type definition : define elements and attribute to make valid XML file
	messages.dtd	
	ACK.dtd	
	segments.dtd	
	fields.dtd	
	datatypes.dtd	
XSD		XML Schema : same as dtd but used more often nowadays

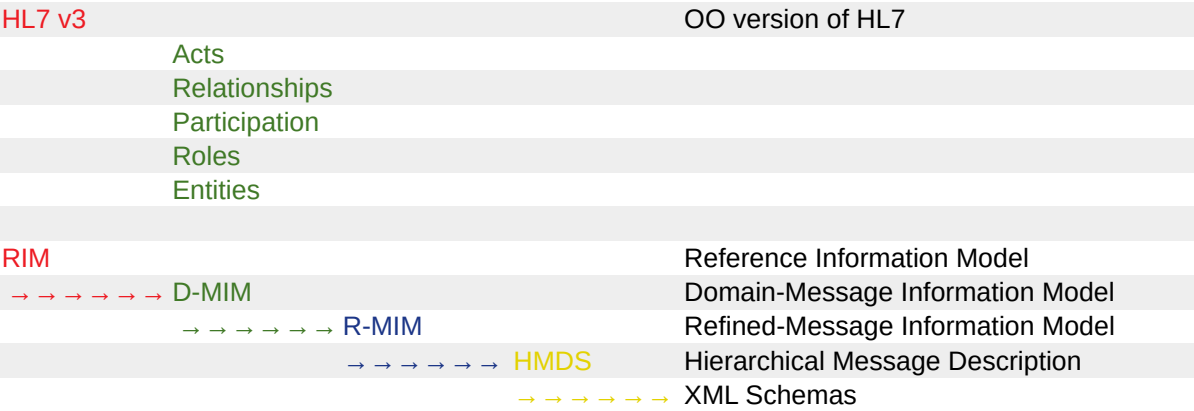|				
DICOM				Digital Imaging and Communication in Medicine : Image format AND communication standard
	Book			
		Part 3,5,6		Defining the data format
		Part 4,7,8		Defining the network communication protocols
		Part 12		Defining communication on media
DSC				DICOM Standard Committee
	WG			Workgroups
		Supplement		New developments
		CP		Correction Proposal for small modifications
SOP Class				Service Object Pair
	SG			Service Groupe
		DIMSE		DICOM Message Service Element
	IOD			Information Object Definition → Composite or Normalized
		OD		Object Definition
		IE		Information Entity
			Module	Logical group of information
			Attributes	Pixel values, metadata, etc… → Unit of information
			VR	Value Representation (DICOM Data Type)
			VM	Value Multiplicity (Cardinalityà
UIDs				Unique Identifiers
DIMSE-C				Composite DIMSE
	C-ECHO			Verification
	C-STORE			Storage
	C-FIND			Query/Retrieve
	C-GET			Query/Retrieve
	C-MOVE			Query/Retrieve
	C-CANCEL			Cancel
	C-PRINT			Print
		RQ		Request
		RSP		Response

DUL			DICOM upper layer protocol for network transfer
	PDU		Protocol Data Unit
		A-ASSOCIATION	Association service message to establish communication channel
		P-DATA	To exchange data value
		PDV	Presentation Data Value
	SCU		Service Class User
	SCP		Service Class Provider
MWL			Modality Worklist : Communication between RIS and DICOM for scheduling
MMPS			Modality Performed Procedures : Communication between RIS and DICOM during procedure

HIPAA				Health Insurance Portability & Accountability Act
	Administrative procedures			
	Physical safeguards			
	Technical security services			
	Technical mechanisms			
			DF 1	DF separator
			DF 2	Other separators
			DF 3 → 6	Receiving/Sending apps/app instances
			DF 9	Msg Type & Trigger Event
			DF 10	Msg control ID
			DF 11	Msg processing ID (Debugging, Production, Training) or mode (Archive, Restore…)
			DF 12	HL7 version
	(e)PHI			(electronic) Protected Health Information
CIA triad				Confidentiality Integrity Availability
NIST				National Institute of Standards and Technology
	NIST 800-53			Special Publication 800-53 (26 families of controls) Requirement standard
	NIST CSF			Cybersecurity Framework (5 sections of controls 22 categories) Guideline standard
	NIST RMF			Risk Management Framework
ISO				International Organization for Standardization
	ISO/IEC 27002			InfoSec controls
	Types			
GDPR		ADT		Admission Discharge Transfer
			A01, A02,…	Event types (transfer, register, update etc…)
		ACK		General acknowledgment
			AA, AE, AR	App Accept, App Error, App Reject
			CA, CR, CE	Commit Accept, Commit Reject, Commit Error
AAA triad (triple A model)		ORM		Order Message
		ORR		Order Ackwnowledgment
	IdM	ORU		Observation Result/unsolicited
		QRY		Query (request)
DS		SIU		Scheduling Information Unsolicited

		BAR	Biling Account Record
	ITU-T X500	DFT	Detailed Financial Situation
	LDAP		Lightweight Directory Access Protocol – Standard network protocol
XML	DIT		Extensible Markup Language
	LDIF		LDAP Data Interchangeable Format
UML			Unified Modeling Language
	Use case		Describe actors, responsibilities, situations
	Sequence diagram		Define transfer mode
	Activity Diagram		Detail message exchanges
DTD			Document type definition : define elements and attribute to make valid XML file
	messages.dtd		
	ACK.dtd		
	segments.dtd		Identity Provider
	fields.dtd		
	datatypes.dtd		Desktop-base SSO – Based on Ticket Granting Ticket
	SAML		Security Assertion Markup Language – Server redirects Client to IdP
			which generates a SAML token
XSD	Oauth2		XML Schema : same as dtd but used more often nowadays

HL7 v3		OO version of HL7
	Acts	
	Relationships	
	Participation	
	Roles	
	Entities	
RIM		Reference Information Model
→ → → → → → D-MIM		Domain-Message Information Model
	→ → → → → → R-MIM	Refined-Message Information Model
	→ → → → → → HMDS	Hierarchical Message Description
	→ → → → → → XML Schemas	

CIM (*ICD*)				Classification Internationales des Maladies (finalité statistique)
	ICD-9			3 chiffres + 1 chiffre de spécification
	ICD-10			
			DF 1	DF separator
			DF 2	Other separators
			DF 3 → 6	Receiving/Sending apps/app instances
			DF 9	Msg Type & Trigger Event
			DF 10	Msg control ID
			DF 11	Msg processing ID (Debugging, Production, Training) or mode (Archive, Restore…)
			DF 12	HL7 version
Codes INAMI				Finalité administrative
CPT				Current Procedural Terminology
ICPC-2				International Classification of Primary Care
POMR				Problem Oriented Medical Report
	SODA (*SOAP*)			Subjectif Objectif Diagnostique Actes
SNDO				Standard Nomenclature of Diseases and Operations (2 axes)
	SNOP			Systemized Nomenclature of Pathology (4 axes)
	SNOMED			Systemized Nomenclature of Medicine (6 axes)
	Types			7 à 11 axes
		ADT		Admission Discharge Transfer
			A01, A02,…	Event types (transfer, register, update etc…)
NIH		ACK		General acknowledgment
			AA, AE, AR	App Accept, App Error, App Reject
			CA, CR, CE	Commit Accept, Commit Reject, Commit Error
	NLM	ORM		Order Message
		ORR		Order Ackwnowledgment
	MeSH	ORU		Observation Result/unsolicited
	UMLS	QRY		Query (request)
		SIU		Scheduling Information Unsolicited

DSM	BAR	Biling Account Record
ACR	DFT	Detailed Financial Situation
LOINS		Biologie Clinique
XML		Extensible Markup Language
KMEHR		Kind Messages for Electronic Healthcare Records (Analogue CDA (XML))
UML		Unified Modeling Language
	Use case	Describe actors, responsibilities, situations
	Sequence diagram	Define transfer mode
	Activity Diagram	Detail message exchanges
DTD		Document type definition : define elements and attribute to make valid XML file
	messages.dtd	
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	segments.dtd	
	fields.dtd	
	datatypes.dtd	
XSD		XML Schema : same as dtd but used more often nowadays